



# Full wwPDB X-ray Structure Validation Report ⓘ

Sep 17, 2023 – 07:32 AM EDT

PDB ID : 4TZ5  
Title : Ensemble refinement of the E502A variant of sacteLam55A from Streptomyces sp. SirexAA-E in complex with laminarihexaose  
Authors : Bianchetti, C.M.; Takasuka, T.E.; Yik, E.J.; Bergeman, L.F.; Fox, B.G.  
Deposited on : 2014-07-09  
Resolution : 1.75 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.35.1  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.35.1

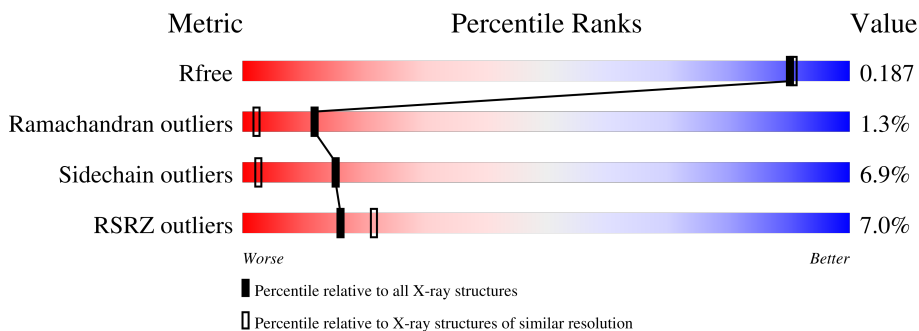
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.75 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	2340 (1.76-1.76)
Ramachandran outliers	138981	2437 (1.76-1.76)
Sidechain outliers	138945	2437 (1.76-1.76)
RSRZ outliers	127900	2298 (1.76-1.76)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1-A	549	 7% 91% 9%
1	1-B	549	 8% 92% 7% •
1	10-A	549	 7% 92% 7% •
1	10-B	549	 8% 92% 6% •
1	11-A	549	 7% 94% 5% •
1	11-B	549	 8% 93% 7% •

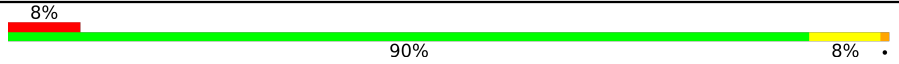
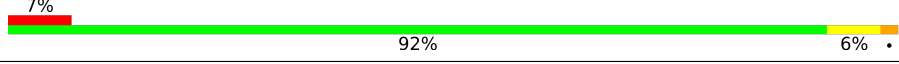
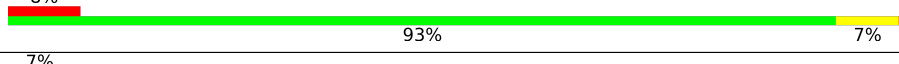
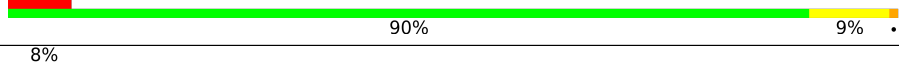
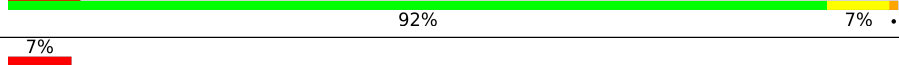
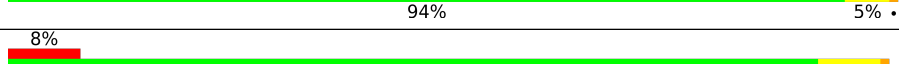
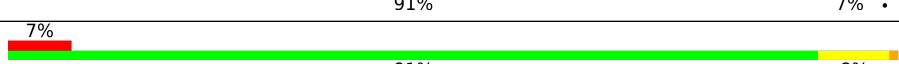
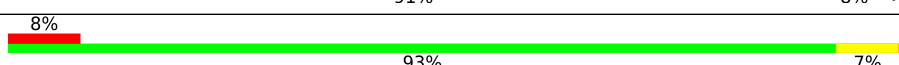
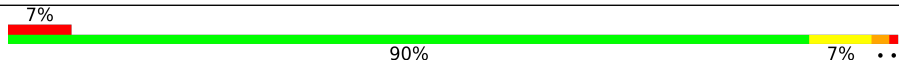
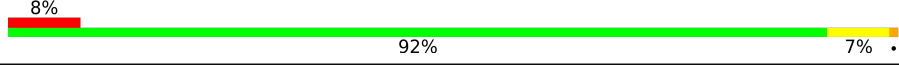
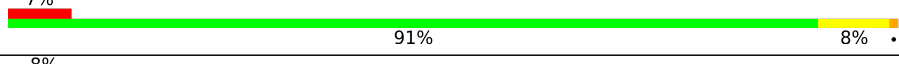
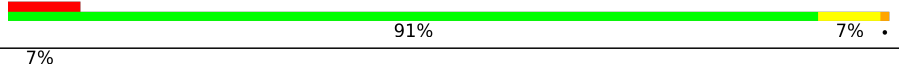
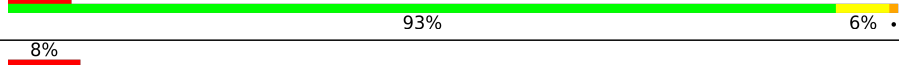
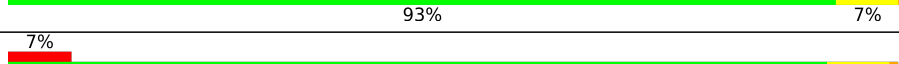
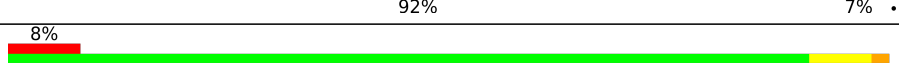
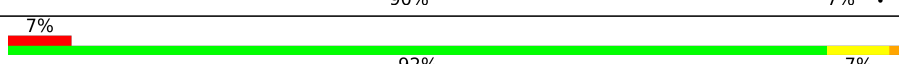
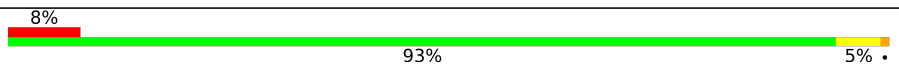
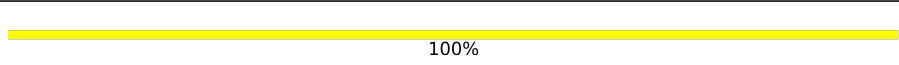
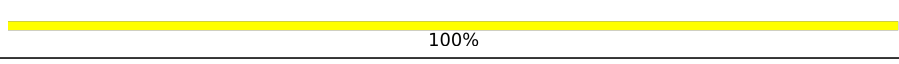
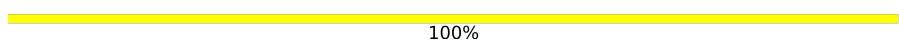
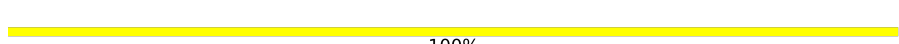

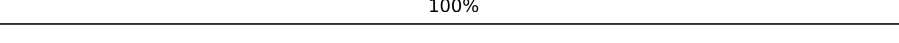
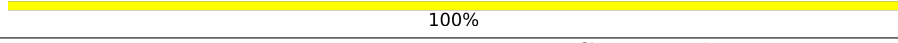

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Mol	Chain	Length	Quality of chain
1	12-A	549	7% 91% 9%
1	12-B	549	8% 93% 6%
1	13-A	549	7% 91% 8%
1	13-B	549	8% 92% 7%
1	14-A	549	7% 90% 8%
1	14-B	549	8% 91% 7%
1	15-A	549	7% 90% 8%
1	15-B	549	8% 90% 9%
1	16-A	549	7% 91% 9%
1	16-B	549	8% 92% 8%
1	17-A	549	7% 90% 7%
1	17-B	549	8% 91% 8%
1	18-A	549	7% 91% 7%
1	18-B	549	8% 93% 6%
1	19-A	549	7% 91% 8%
1	19-B	549	8% 92% 7%
1	2-A	549	7% 93% 6%
1	2-B	549	8% 91% 7%
1	20-A	549	7% 93% 6%
1	20-B	549	8% 91% 7%
1	21-A	549	7% 91% 7%
1	21-B	549	8% 92% 7%
1	22-A	549	7% 90% 8%
1	22-B	549	8% 91% 7%
1	23-A	549	7% 90% 9%

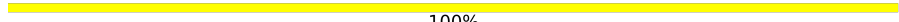
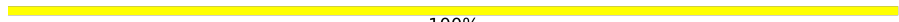
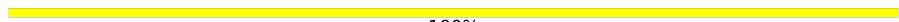
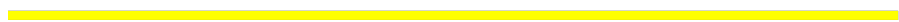











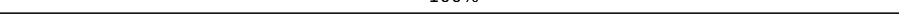
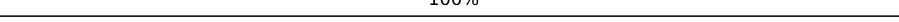
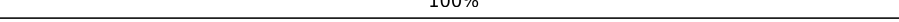
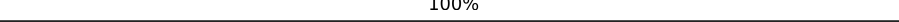
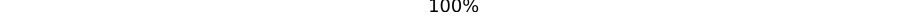
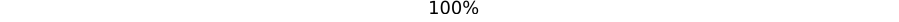
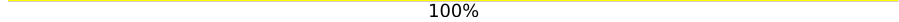
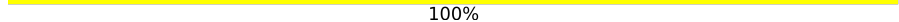
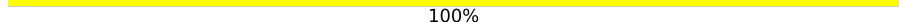
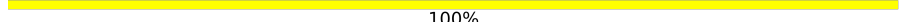
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Mol	Chain	Length	Quality of chain
1	23-B	549	 8% 90% 8%
1	24-A	549	 7% 92% 6%
1	24-B	549	 8% 93% 7%
1	25-A	549	 7% 90% 9%
1	25-B	549	 8% 92% 7%
1	3-A	549	 7% 94% 5%
1	3-B	549	 8% 91% 7%
1	4-A	549	 7% 91% 8%
1	4-B	549	 8% 93% 7%
1	5-A	549	 7% 90% 7%
1	5-B	549	 8% 92% 7%
1	6-A	549	 7% 91% 8%
1	6-B	549	 8% 91% 7%
1	7-A	549	 7% 93% 6%
1	7-B	549	 8% 93% 7%
1	8-A	549	 7% 92% 7%
1	8-B	549	 8% 90% 7%
1	9-A	549	 7% 92% 7%
1	9-B	549	 8% 93% 5%
2	1-C	6	 100%
2	1-E	6	 100%
2	10-C	6	 100%
2	10-E	6	 100%
2	11-C	6	 100%
2	11-E	6	 100%

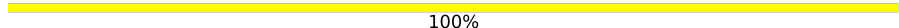
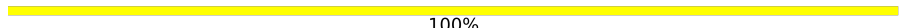
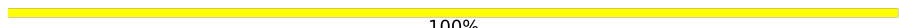
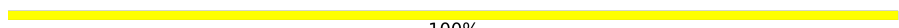
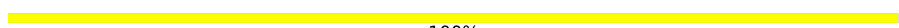








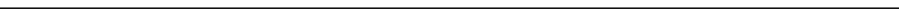

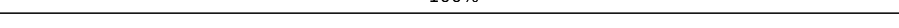
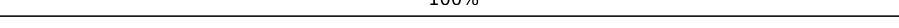
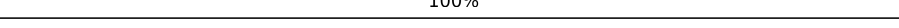
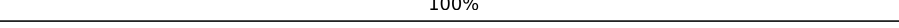
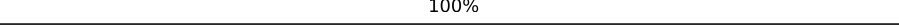
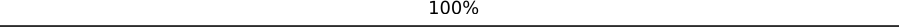
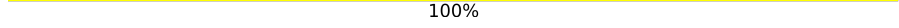
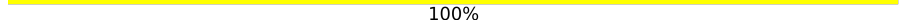
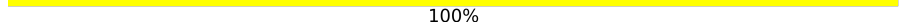
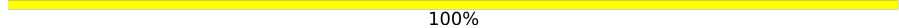
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Mol	Chain	Length	Quality of chain
2	12-C	6	 100%
2	12-E	6	 100%
2	13-C	6	 100%
2	13-E	6	 100%
2	14-C	6	 100%
2	14-E	6	 100%
2	15-C	6	 100%
2	15-E	6	 100%
2	16-C	6	 100%
2	16-E	6	 100%
2	17-C	6	 100%
2	17-E	6	 100%
2	18-C	6	 100%
2	18-E	6	 100%
2	19-C	6	 100%
2	19-E	6	 100%
2	2-C	6	 100%
2	2-E	6	 100%
2	20-C	6	 100%
2	20-E	6	 100%
2	21-C	6	 100%
2	21-E	6	 100%
2	22-C	6	 100%
2	22-E	6	 100%
2	23-C	6	 100%

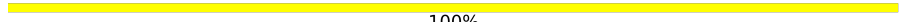
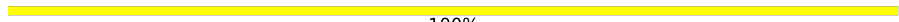
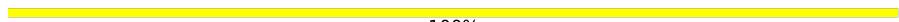
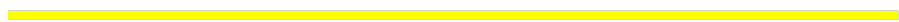











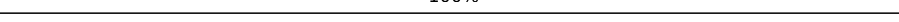
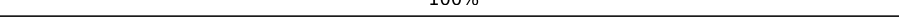
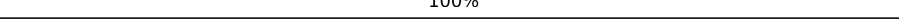
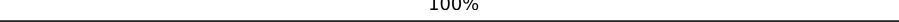
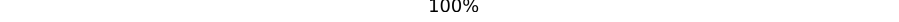
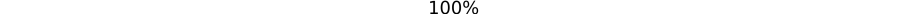
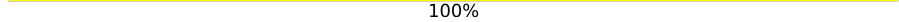
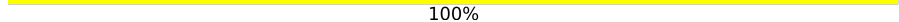
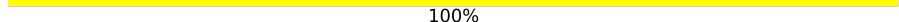
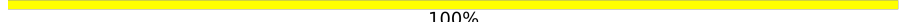
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Mol	Chain	Length	Quality of chain
2	23-E	6	 100%
2	24-C	6	 100%
2	24-E	6	 100%
2	25-C	6	 100%
2	25-E	6	 100%
2	3-C	6	 100%
2	3-E	6	 100%
2	4-C	6	 100%
2	4-E	6	 100%
2	5-C	6	 100%
2	5-E	6	 100%
2	6-C	6	 100%
2	6-E	6	 100%
2	7-C	6	 100%
2	7-E	6	 100%
2	8-C	6	 100%
2	8-E	6	 100%
2	9-C	6	 100%
2	9-E	6	 100%
3	1-D	5	 100%
3	1-F	5	 100%
3	10-D	5	 100%
3	10-F	5	 100%
3	11-D	5	 100%
3	11-F	5	 100%

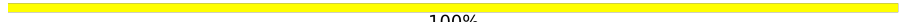
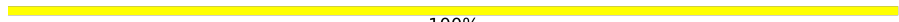
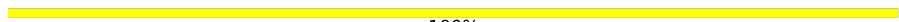
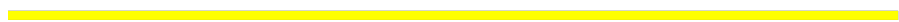











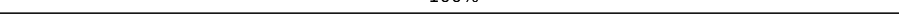
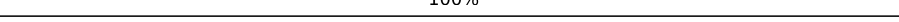
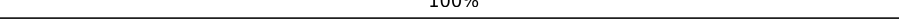
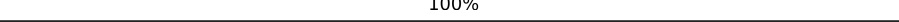
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Mol	Chain	Length	Quality of chain
3	12-D	5	 100%
3	12-F	5	 100%
3	13-D	5	 100%
3	13-F	5	 100%
3	14-D	5	 100%
3	14-F	5	 100%
3	15-D	5	 100%
3	15-F	5	 100%
3	16-D	5	 100%
3	16-F	5	 100%
3	17-D	5	 100%
3	17-F	5	 100%
3	18-D	5	 100%
3	18-F	5	 100%
3	19-D	5	 100%
3	19-F	5	 100%
3	2-D	5	 100%
3	2-F	5	 100%
3	20-D	5	 100%
3	20-F	5	 100%
3	21-D	5	 100%
3	21-F	5	 100%
3	22-D	5	 100%
3	22-F	5	 100%
3	23-D	5	 100%

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Mol	Chain	Length	Quality of chain
3	23-F	5	 100%
3	24-D	5	 100%
3	24-F	5	 100%
3	25-D	5	 100%
3	25-F	5	 100%
3	3-D	5	 100%
3	3-F	5	 100%
3	4-D	5	 100%
3	4-F	5	 100%
3	5-D	5	 100%
3	5-F	5	 100%
3	6-D	5	 100%
3	6-F	5	 100%
3	7-D	5	 100%
3	7-F	5	 100%
3	8-D	5	 100%
3	8-F	5	 100%
3	9-D	5	 100%
3	9-F	5	 100%



## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 427968 atoms, of which 195500 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Putative secreted protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	1-A	549	8074	2629	3907	708	825	5	0	0	0
1	2-A	549	8074	2629	3907	708	825	5	0	0	0
1	3-A	549	8074	2629	3907	708	825	5	0	0	0
1	4-A	549	8074	2629	3907	708	825	5	0	0	0
1	5-A	549	8074	2629	3907	708	825	5	0	0	0
1	6-A	549	8074	2629	3907	708	825	5	0	0	0
1	7-A	549	8074	2629	3907	708	825	5	0	0	0
1	8-A	549	8074	2629	3907	708	825	5	0	0	0
1	9-A	549	8074	2629	3907	708	825	5	0	0	0
1	10-A	549	8074	2629	3907	708	825	5	0	0	0
1	11-A	549	8074	2629	3907	708	825	5	0	0	0
1	12-A	549	8074	2629	3907	708	825	5	0	0	0
1	13-A	549	8074	2629	3907	708	825	5	0	0	0
1	14-A	549	8074	2629	3907	708	825	5	0	0	0
1	15-A	549	8074	2629	3907	708	825	5	0	0	0
1	16-A	549	8074	2629	3907	708	825	5	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	17-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	18-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	19-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	20-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	21-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	22-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	23-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	24-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	25-A	549	Total	C	H	N	O	S	0	0	0
			8074	2629	3907	708	825	5			
1	1-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	2-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	3-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	4-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	5-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	6-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	7-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	8-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	9-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	10-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	11-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			
1	12-B	548	Total	C	H	N	O	S	0	0	0
			8059	2624	3901	707	822	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	13-B	548	8059	2624	3901	707	822	5	0	0	0
1	14-B	548	8059	2624	3901	707	822	5	0	0	0
1	15-B	548	8059	2624	3901	707	822	5	0	0	0
1	16-B	548	8059	2624	3901	707	822	5	0	0	0
1	17-B	548	8059	2624	3901	707	822	5	0	0	0
1	18-B	548	8059	2624	3901	707	822	5	0	0	0
1	19-B	548	8059	2624	3901	707	822	5	0	0	0
1	20-B	548	8059	2624	3901	707	822	5	0	0	0
1	21-B	548	8059	2624	3901	707	822	5	0	0	0
1	22-B	548	8059	2624	3901	707	822	5	0	0	0
1	23-B	548	8059	2624	3901	707	822	5	0	0	0
1	24-B	548	8059	2624	3901	707	822	5	0	0	0
1	25-B	548	8059	2624	3901	707	822	5	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	502	ALA	GLU	engineered mutation	UNP G2NFJ9
B	502	ALA	GLU	engineered mutation	UNP G2NFJ9

- Molecule 2 is an oligosaccharide called beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
2	1-C	6	Total	C	O	0	0	0
			67	36	31			
2	2-C	6	Total	C	O	0	0	0
			67	36	31			
2	3-C	6	Total	C	O	0	0	0
			67	36	31			
2	4-C	6	Total	C	O	0	0	0
			67	36	31			
2	5-C	6	Total	C	O	0	0	0
			67	36	31			
2	6-C	6	Total	C	O	0	0	0
			67	36	31			
2	7-C	6	Total	C	O	0	0	0
			67	36	31			
2	8-C	6	Total	C	O	0	0	0
			67	36	31			
2	9-C	6	Total	C	O	0	0	0
			67	36	31			
2	10-C	6	Total	C	O	0	0	0
			67	36	31			
2	11-C	6	Total	C	O	0	0	0
			67	36	31			
2	12-C	6	Total	C	O	0	0	0
			67	36	31			
2	13-C	6	Total	C	O	0	0	0
			67	36	31			
2	14-C	6	Total	C	O	0	0	0
			67	36	31			
2	15-C	6	Total	C	O	0	0	0
			67	36	31			
2	16-C	6	Total	C	O	0	0	0
			67	36	31			
2	17-C	6	Total	C	O	0	0	0
			67	36	31			
2	18-C	6	Total	C	O	0	0	0
			67	36	31			
2	19-C	6	Total	C	O	0	0	0
			67	36	31			
2	20-C	6	Total	C	O	0	0	0
			67	36	31			
2	21-C	6	Total	C	O	0	0	0
			67	36	31			
2	22-C	6	Total	C	O	0	0	0
			67	36	31			

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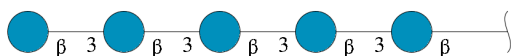
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
2	23-C	6	Total 67	C 36	O 31	0	0	0
2	24-C	6	Total 67	C 36	O 31	0	0	0
2	25-C	6	Total 67	C 36	O 31	0	0	0
2	1-E	6	Total 67	C 36	O 31	0	0	0
2	2-E	6	Total 67	C 36	O 31	0	0	0
2	3-E	6	Total 67	C 36	O 31	0	0	0
2	4-E	6	Total 67	C 36	O 31	0	0	0
2	5-E	6	Total 67	C 36	O 31	0	0	0
2	6-E	6	Total 67	C 36	O 31	0	0	0
2	7-E	6	Total 67	C 36	O 31	0	0	0
2	8-E	6	Total 67	C 36	O 31	0	0	0
2	9-E	6	Total 67	C 36	O 31	0	0	0
2	10-E	6	Total 67	C 36	O 31	0	0	0
2	11-E	6	Total 67	C 36	O 31	0	0	0
2	12-E	6	Total 67	C 36	O 31	0	0	0
2	13-E	6	Total 67	C 36	O 31	0	0	0
2	14-E	6	Total 67	C 36	O 31	0	0	0
2	15-E	6	Total 67	C 36	O 31	0	0	0
2	16-E	6	Total 67	C 36	O 31	0	0	0
2	17-E	6	Total 67	C 36	O 31	0	0	0
2	18-E	6	Total 67	C 36	O 31	0	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
2	19-E	6	Total	C	O	0	0	0
			67	36	31			
2	20-E	6	Total	C	O	0	0	0
			67	36	31			
2	21-E	6	Total	C	O	0	0	0
			67	36	31			
2	22-E	6	Total	C	O	0	0	0
			67	36	31			
2	23-E	6	Total	C	O	0	0	0
			67	36	31			
2	24-E	6	Total	C	O	0	0	0
			67	36	31			
2	25-E	6	Total	C	O	0	0	0
			67	36	31			

- Molecule 3 is an oligosaccharide called beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
3	1-D	5	Total	C	O	0	0	0
			56	30	26			
3	2-D	5	Total	C	O	0	0	0
			56	30	26			
3	3-D	5	Total	C	O	0	0	0
			56	30	26			
3	4-D	5	Total	C	O	0	0	0
			56	30	26			
3	5-D	5	Total	C	O	0	0	0
			56	30	26			
3	6-D	5	Total	C	O	0	0	0
			56	30	26			
3	7-D	5	Total	C	O	0	0	0
			56	30	26			
3	8-D	5	Total	C	O	0	0	0
			56	30	26			
3	9-D	5	Total	C	O	0	0	0
			56	30	26			
3	10-D	5	Total	C	O	0	0	0
			56	30	26			

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
3	11-D	5	Total	C	O	0	0	0
			56	30	26			
3	12-D	5	Total	C	O	0	0	0
			56	30	26			
3	13-D	5	Total	C	O	0	0	0
			56	30	26			
3	14-D	5	Total	C	O	0	0	0
			56	30	26			
3	15-D	5	Total	C	O	0	0	0
			56	30	26			
3	16-D	5	Total	C	O	0	0	0
			56	30	26			
3	17-D	5	Total	C	O	0	0	0
			56	30	26			
3	18-D	5	Total	C	O	0	0	0
			56	30	26			
3	19-D	5	Total	C	O	0	0	0
			56	30	26			
3	20-D	5	Total	C	O	0	0	0
			56	30	26			
3	21-D	5	Total	C	O	0	0	0
			56	30	26			
3	22-D	5	Total	C	O	0	0	0
			56	30	26			
3	23-D	5	Total	C	O	0	0	0
			56	30	26			
3	24-D	5	Total	C	O	0	0	0
			56	30	26			
3	25-D	5	Total	C	O	0	0	0
			56	30	26			
3	1-F	5	Total	C	O	0	0	0
			56	30	26			
3	2-F	5	Total	C	O	0	0	0
			56	30	26			
3	3-F	5	Total	C	O	0	0	0
			56	30	26			
3	4-F	5	Total	C	O	0	0	0
			56	30	26			
3	5-F	5	Total	C	O	0	0	0
			56	30	26			
3	6-F	5	Total	C	O	0	0	0
			56	30	26			

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
3	7-F	5	Total	C	O	0	0	0
			56	30	26			
3	8-F	5	Total	C	O	0	0	0
			56	30	26			
3	9-F	5	Total	C	O	0	0	0
			56	30	26			
3	10-F	5	Total	C	O	0	0	0
			56	30	26			
3	11-F	5	Total	C	O	0	0	0
			56	30	26			
3	12-F	5	Total	C	O	0	0	0
			56	30	26			
3	13-F	5	Total	C	O	0	0	0
			56	30	26			
3	14-F	5	Total	C	O	0	0	0
			56	30	26			
3	15-F	5	Total	C	O	0	0	0
			56	30	26			
3	16-F	5	Total	C	O	0	0	0
			56	30	26			
3	17-F	5	Total	C	O	0	0	0
			56	30	26			
3	18-F	5	Total	C	O	0	0	0
			56	30	26			
3	19-F	5	Total	C	O	0	0	0
			56	30	26			
3	20-F	5	Total	C	O	0	0	0
			56	30	26			
3	21-F	5	Total	C	O	0	0	0
			56	30	26			
3	22-F	5	Total	C	O	0	0	0
			56	30	26			
3	23-F	5	Total	C	O	0	0	0
			56	30	26			
3	24-F	5	Total	C	O	0	0	0
			56	30	26			
3	25-F	5	Total	C	O	0	0	0
			56	30	26			

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	1-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	2-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	3-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	4-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	5-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	6-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	7-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	8-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	9-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	10-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	11-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	12-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	13-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	14-A	1	Total	C	H	O	0	0
			10	2	6	2		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	15-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	16-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	17-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	18-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	19-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	20-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	21-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	22-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	23-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	24-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	25-A	1	Total	C	H	O	0	0
			10	2	6	2		
4	1-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	2-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	3-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	4-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	5-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	6-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	7-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	8-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	9-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	10-B	1	Total	C	H	O	0	0
			10	2	6	2		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	11-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	12-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	13-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	14-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	15-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	16-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	17-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	18-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	19-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	20-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	21-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	22-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	23-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	24-B	1	Total	C	H	O	0	0
			10	2	6	2		
4	25-B	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	1-A	355	Total	O	0	0
			355	355		
5	2-A	362	Total	O	0	0
			362	362		
5	3-A	360	Total	O	0	0
			360	360		
5	4-A	370	Total	O	0	0
			370	370		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	5-A	364	Total O 364 364	0	0
5	6-A	356	Total O 356 356	0	0
5	7-A	325	Total O 325 325	0	0
5	8-A	356	Total O 356 356	0	0
5	9-A	327	Total O 327 327	0	0
5	10-A	365	Total O 365 365	0	0
5	11-A	361	Total O 361 361	0	0
5	12-A	360	Total O 360 360	0	0
5	13-A	335	Total O 335 335	0	0
5	14-A	359	Total O 359 359	0	0
5	15-A	348	Total O 348 348	0	0
5	16-A	369	Total O 369 369	0	0
5	17-A	351	Total O 351 351	0	0
5	18-A	349	Total O 349 349	0	0
5	19-A	346	Total O 346 346	0	0
5	20-A	324	Total O 324 324	0	0
5	21-A	347	Total O 347 347	0	0
5	22-A	338	Total O 338 338	0	0
5	23-A	366	Total O 366 366	0	0
5	24-A	364	Total O 364 364	0	0
5	25-A	359	Total O 359 359	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	1-B	381	Total O 381 381	0	0
5	2-B	369	Total O 369 369	0	0
5	3-B	348	Total O 348 348	0	0
5	4-B	377	Total O 377 377	0	0
5	5-B	350	Total O 350 350	0	0
5	6-B	364	Total O 364 364	0	0
5	7-B	377	Total O 377 377	0	0
5	8-B	372	Total O 372 372	0	0
5	9-B	353	Total O 353 353	0	0
5	10-B	367	Total O 367 367	0	0
5	11-B	357	Total O 357 357	0	0
5	12-B	379	Total O 379 379	0	0
5	13-B	360	Total O 360 360	0	0
5	14-B	392	Total O 392 392	0	0
5	15-B	373	Total O 373 373	0	0
5	16-B	361	Total O 361 361	0	0
5	17-B	377	Total O 377 377	0	0
5	18-B	373	Total O 373 373	0	0
5	19-B	355	Total O 355 355	0	0
5	20-B	372	Total O 372 372	0	0
5	21-B	370	Total O 370 370	0	0

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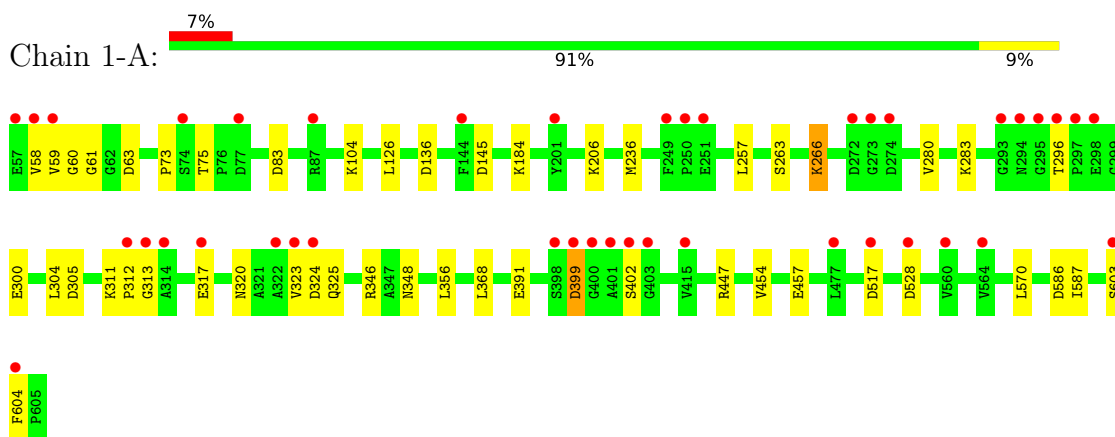
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
5	22-B	386	Total 386	O 386	0	0
5	23-B	332	Total 332	O 332	0	0
5	24-B	360	Total 360	O 360	0	0
5	25-B	372	Total 372	O 372	0	0

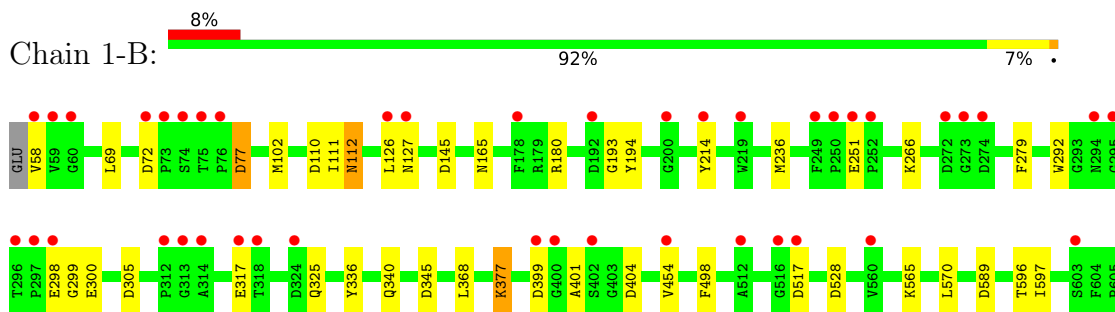
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

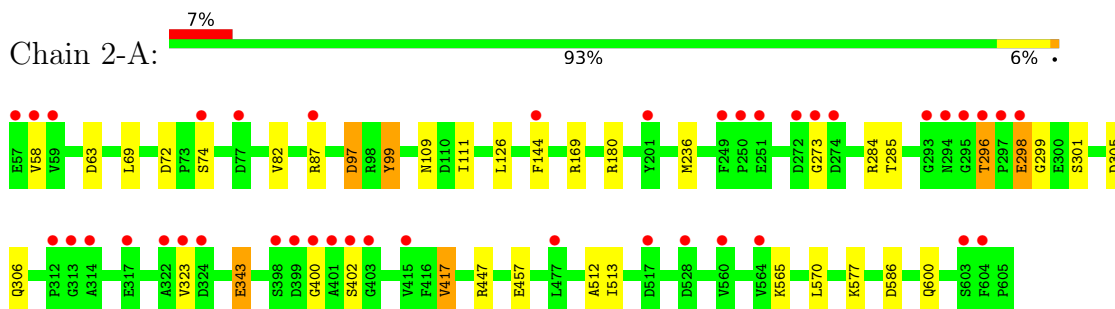
- Molecule 1: Putative secreted protein



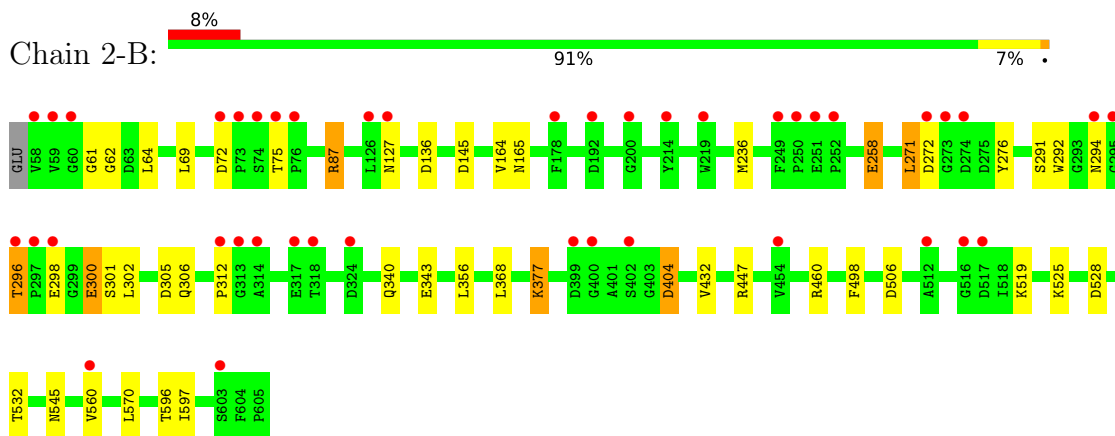
- Molecule 1: Putative secreted protein



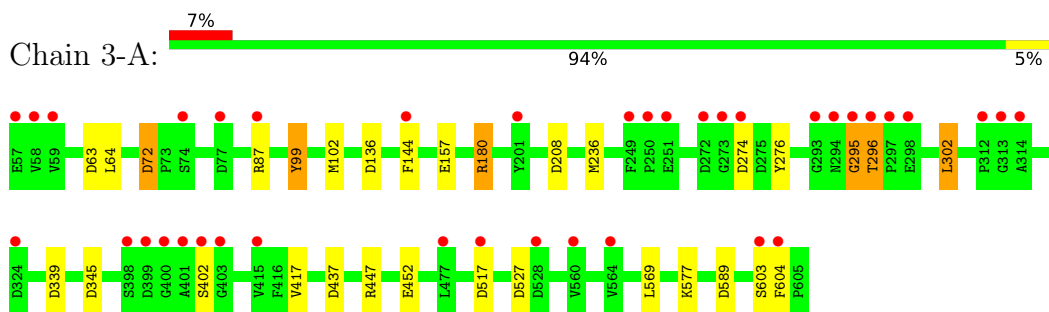
- Molecule 1: Putative secreted protein



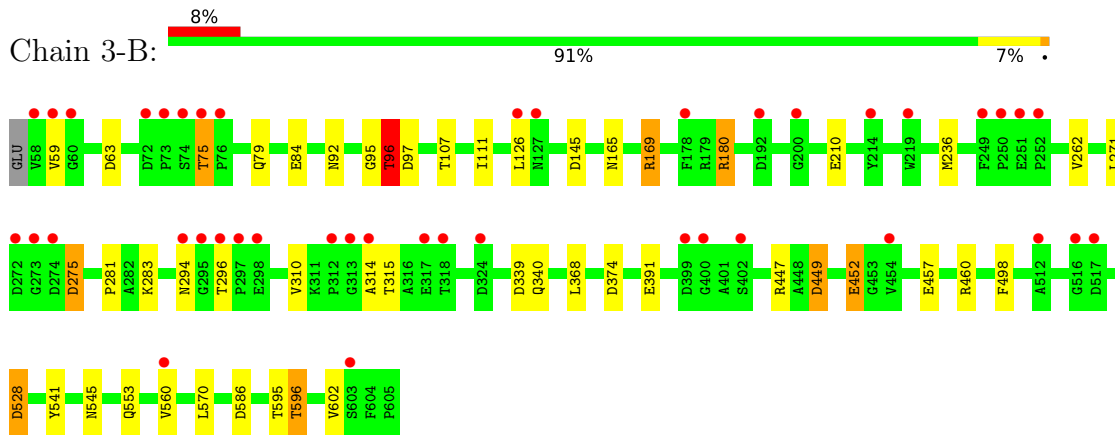
- Molecule 1: Putative secreted protein



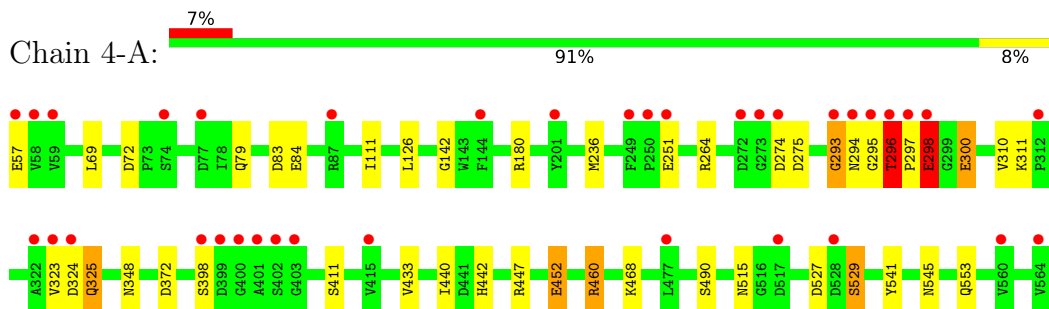
- Molecule 1: Putative secreted protein



- Molecule 1: Putative secreted protein



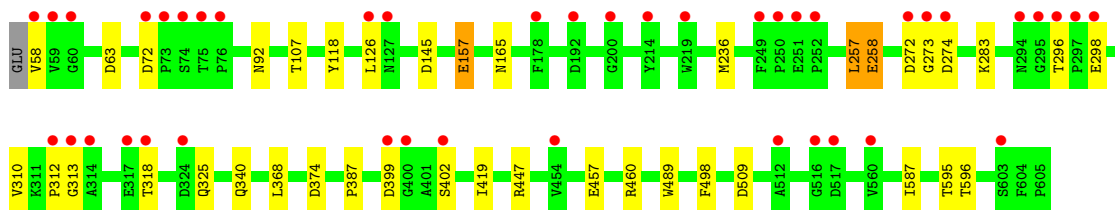
- Molecule 1: Putative secreted protein



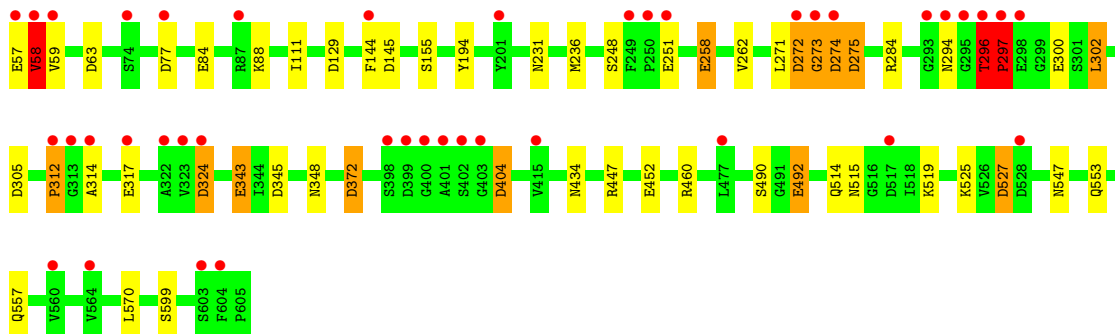
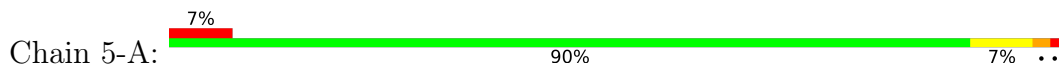




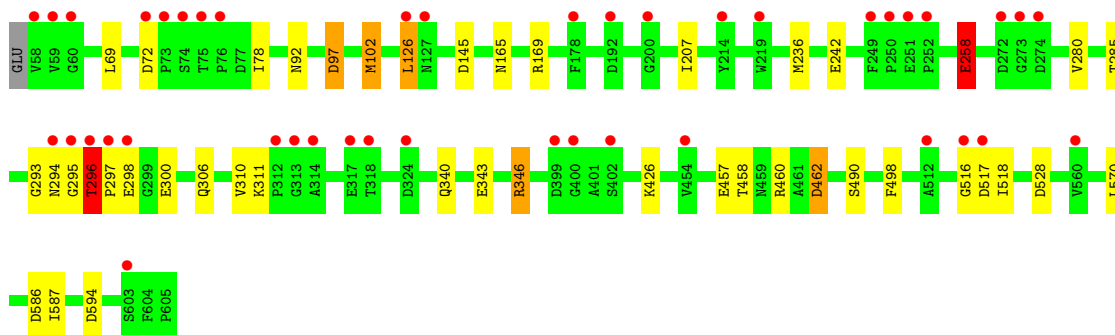
• Molecule 1: Putative secreted protein



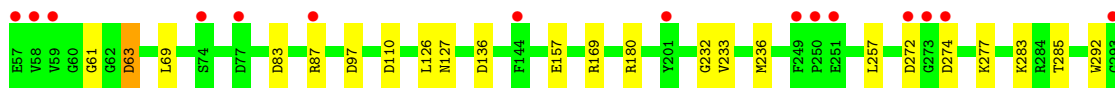
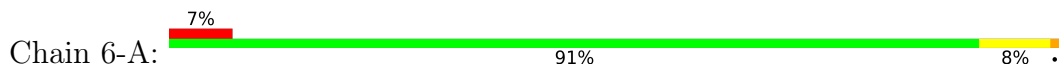
• Molecule 1: Putative secreted protein

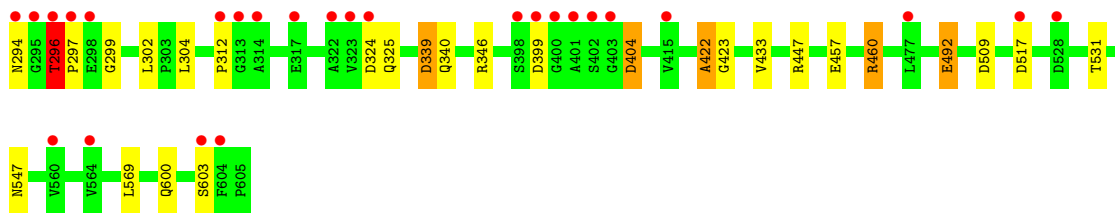


• Molecule 1: Putative secreted protein

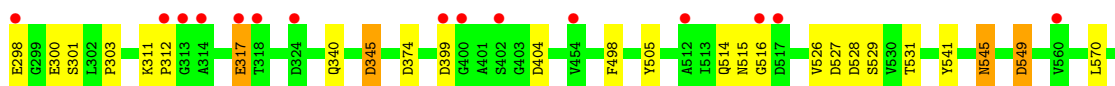
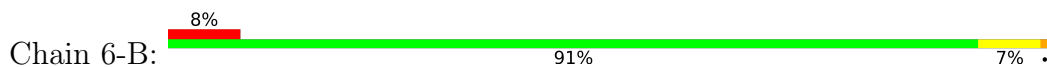


• Molecule 1: Putative secreted protein





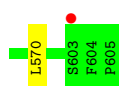
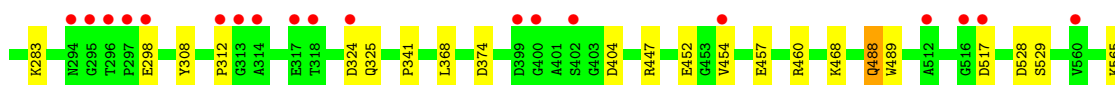
- Molecule 1: Putative secreted protein



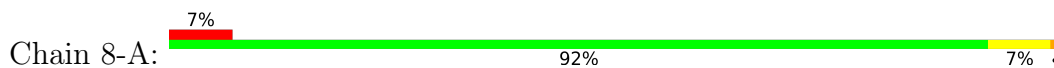
- Molecule 1: Putative secreted protein

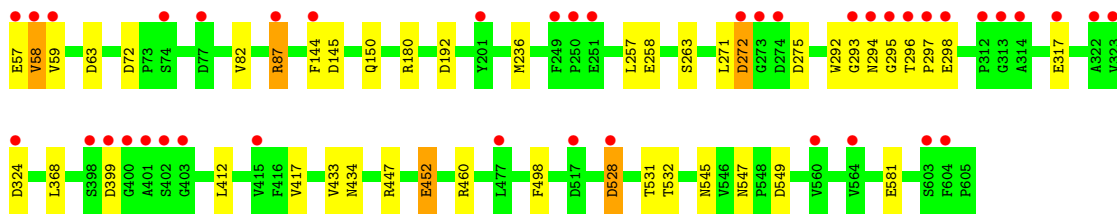


- Molecule 1: Putative secreted protein

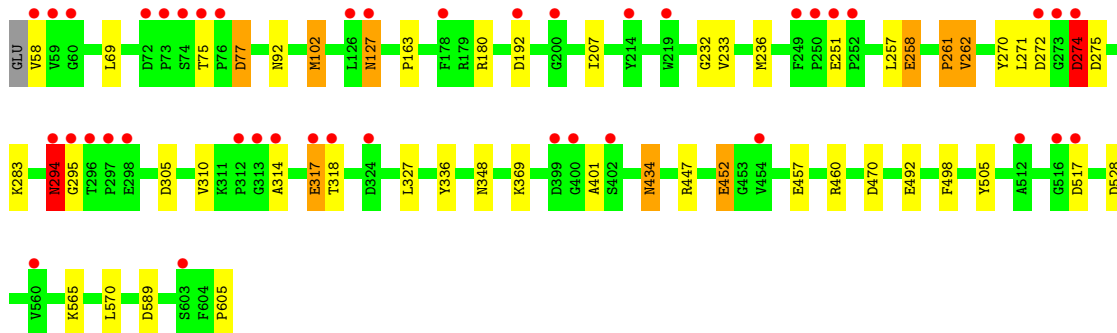


- Molecule 1: Putative secreted protein

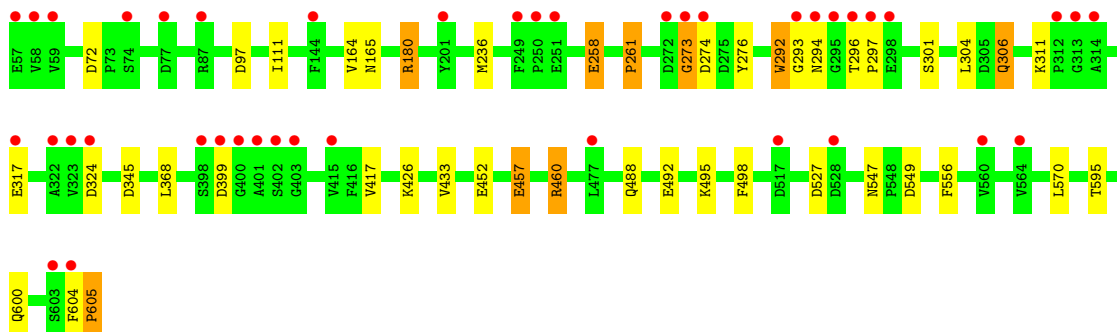




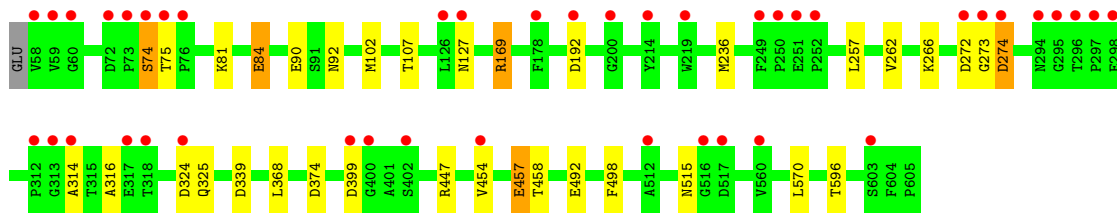
● Molecule 1: Putative secreted protein



● Molecule 1: Putative secreted protein

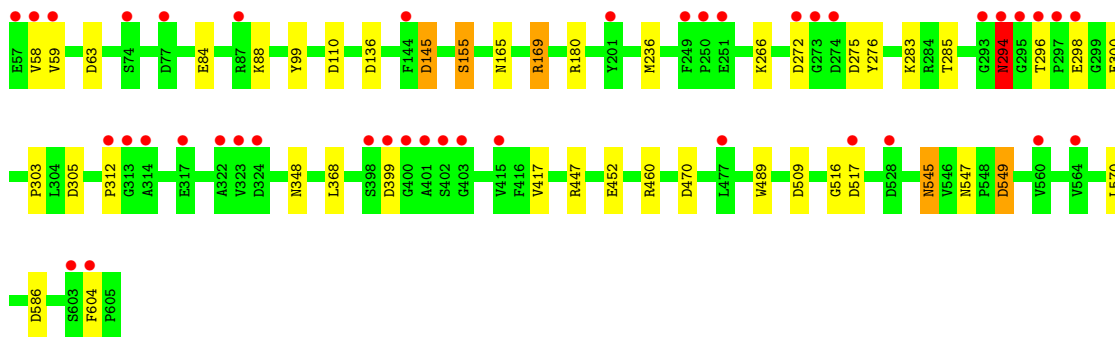


● Molecule 1: Putative secreted protein

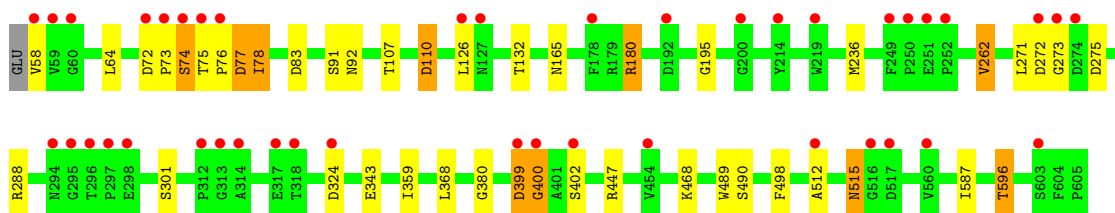


● Molecule 1: Putative secreted protein

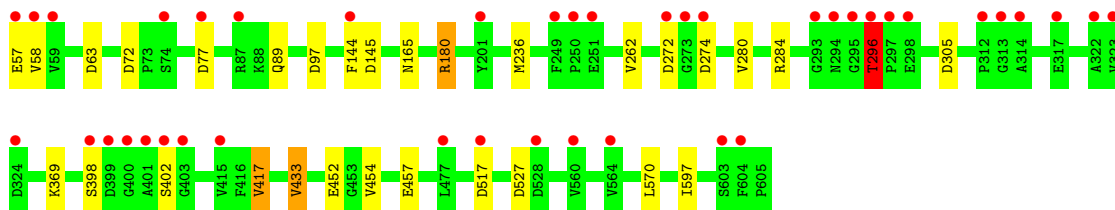




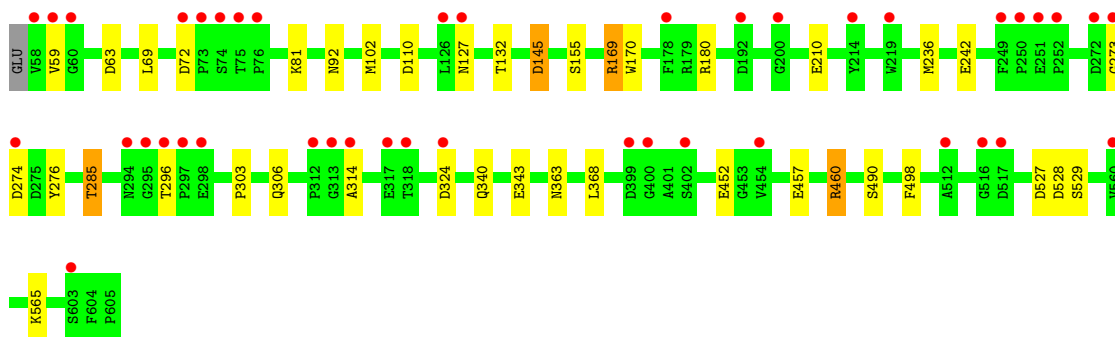
- Molecule 1: Putative secreted protein



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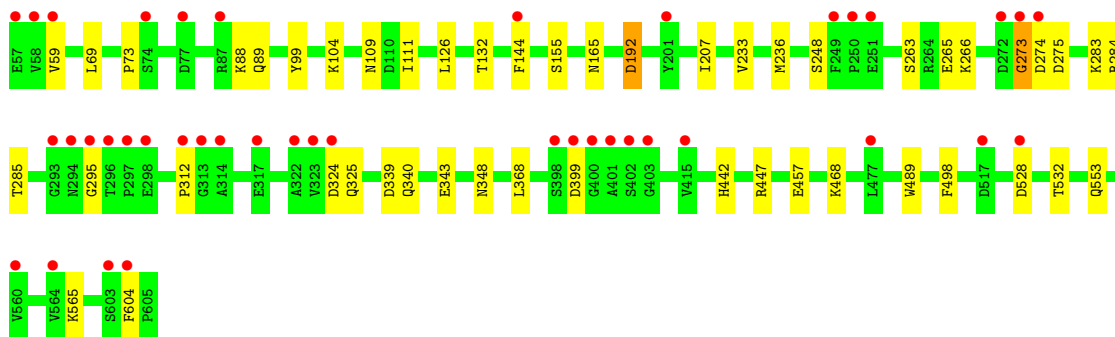


- Molecule 1: Putative secreted protein

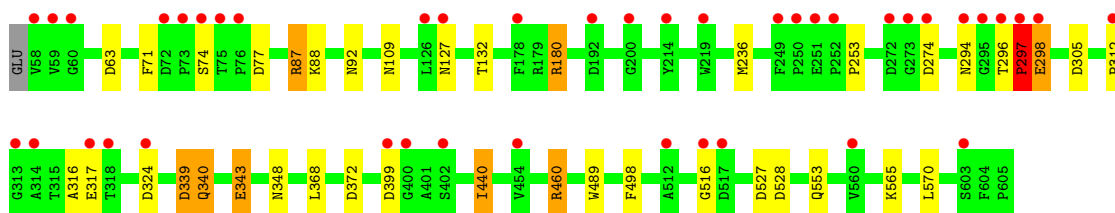


- Molecule 1: Putative secreted protein

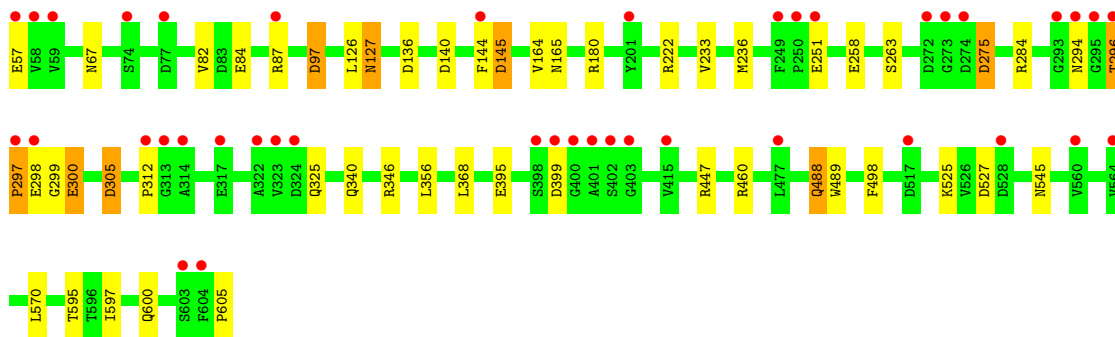




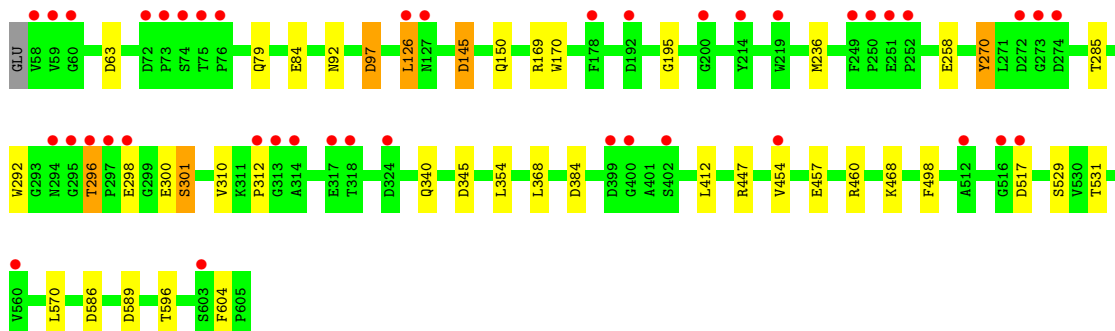
- Molecule 1: Putative secreted protein



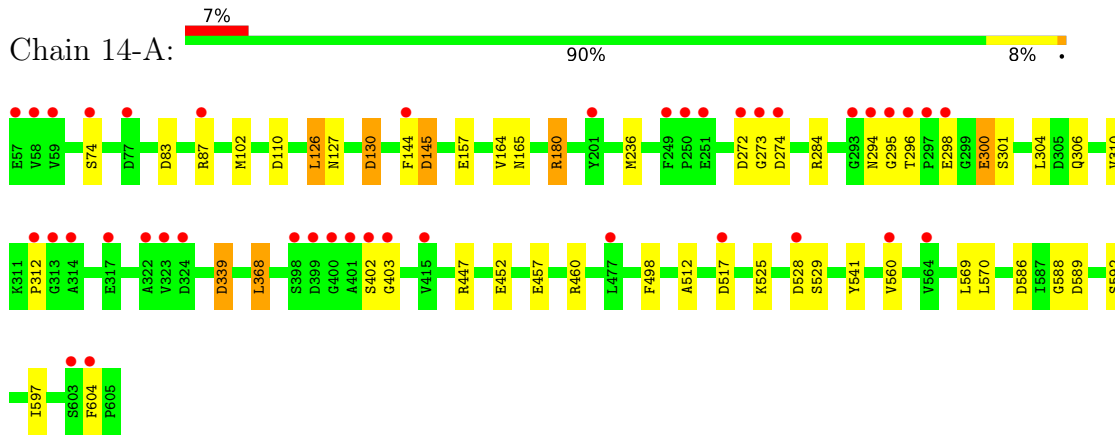
- Molecule 1: Putative secreted protein



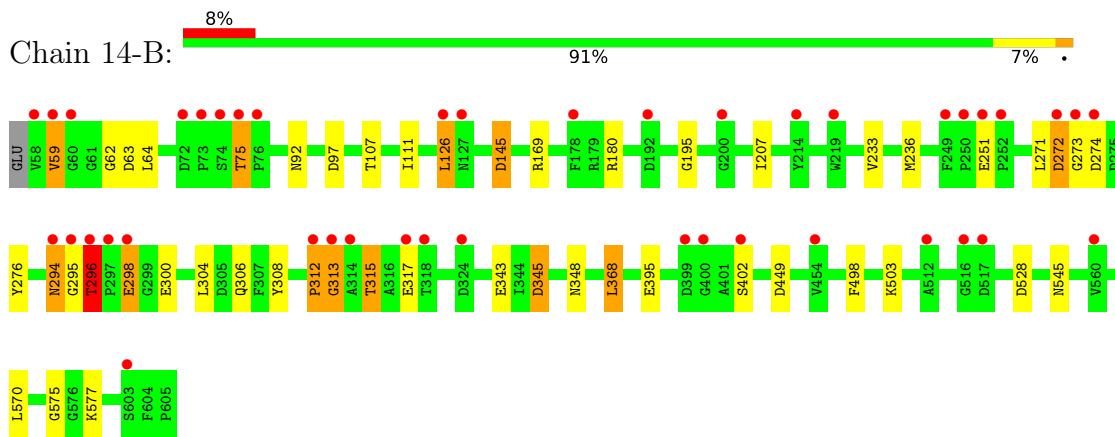
- Molecule 1: Putative secreted protein



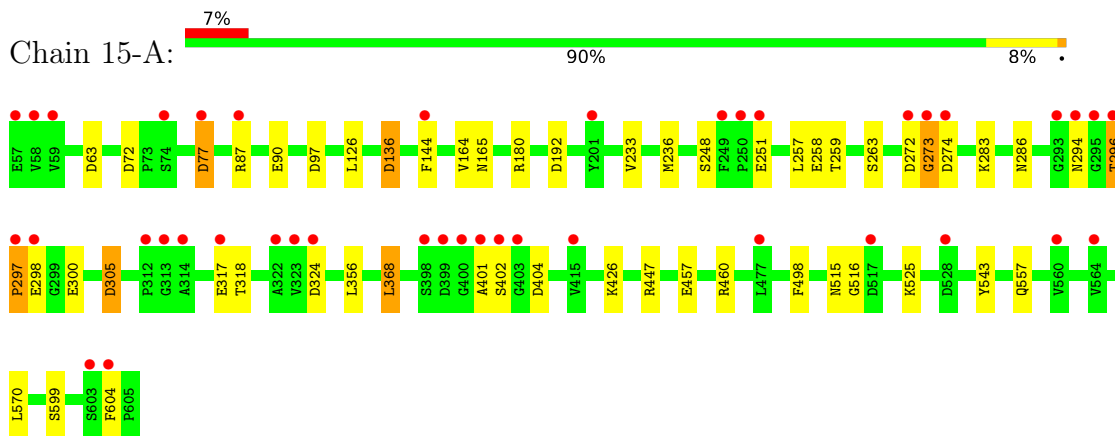
- Molecule 1: Putative secreted protein



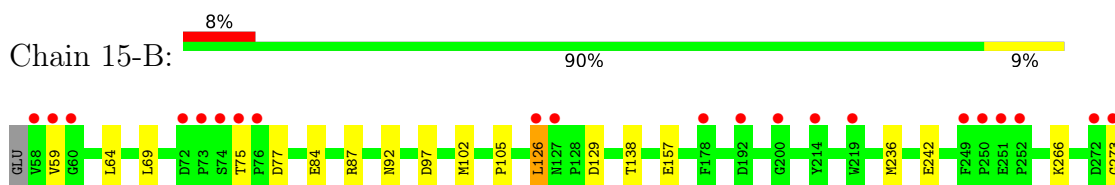
- Molecule 1: Putative secreted protein



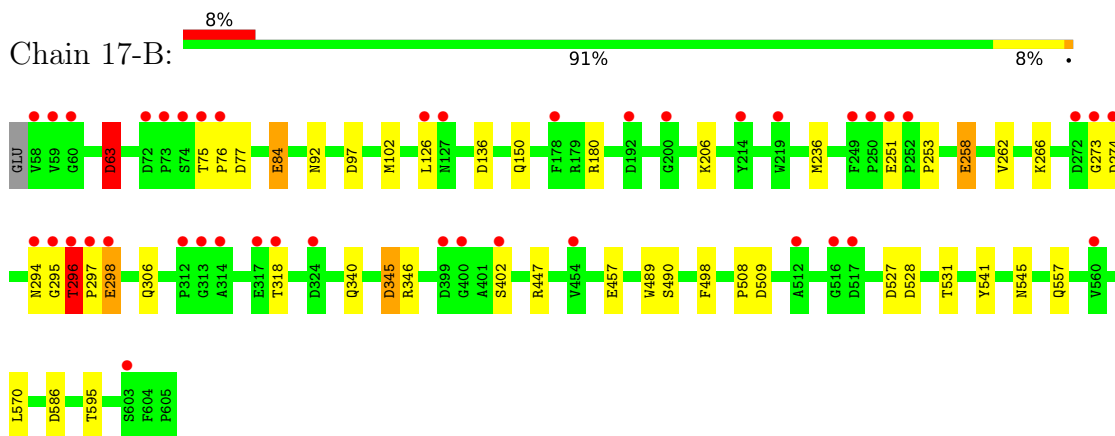
- Molecule 1: Putative secreted protein



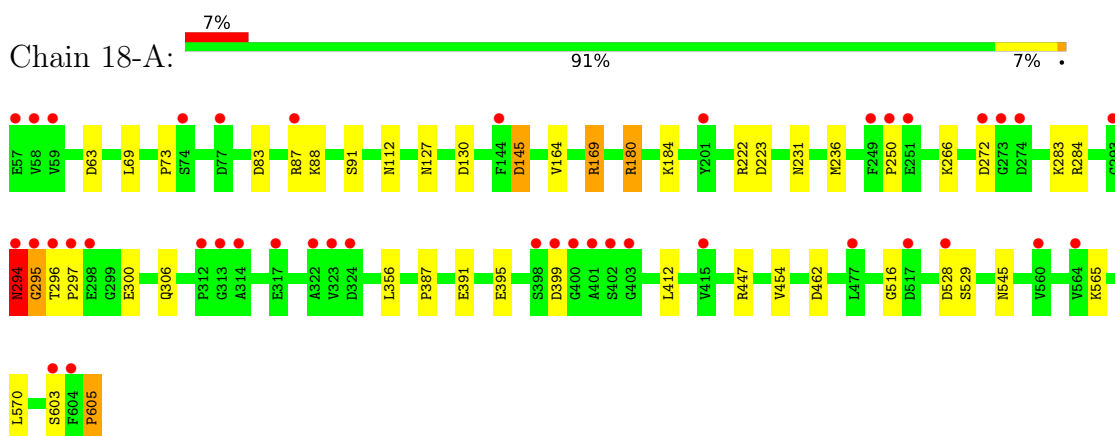
- Molecule 1: Putative secreted protein



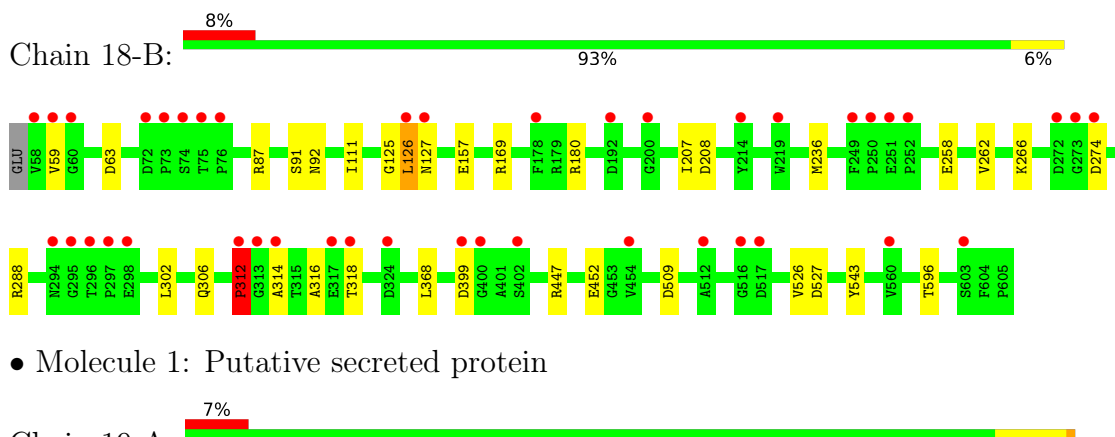




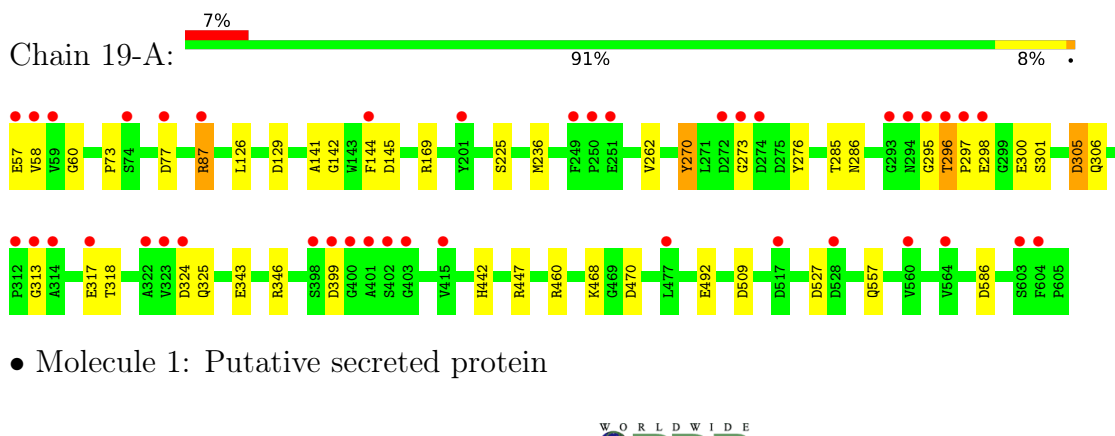
• Molecule 1: Putative secreted protein



• Molecule 1: Putative secreted protein

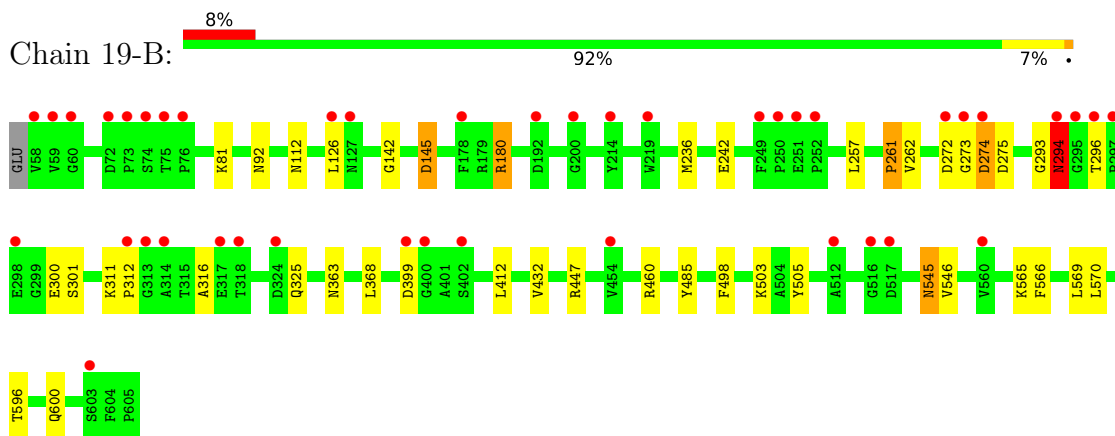


• Molecule 1: Putative secreted protein

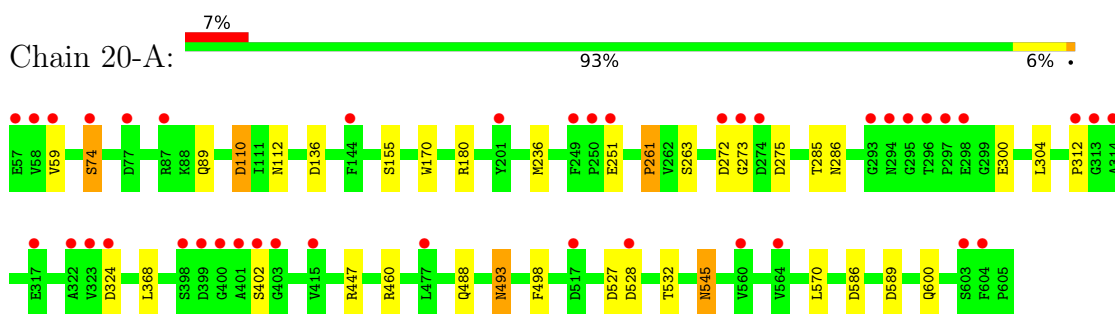


• Molecule 1: Putative secreted protein

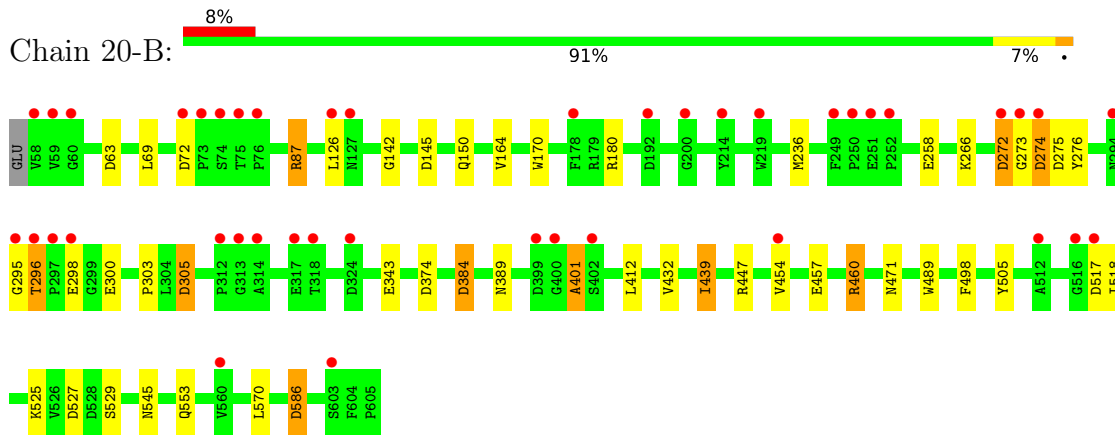




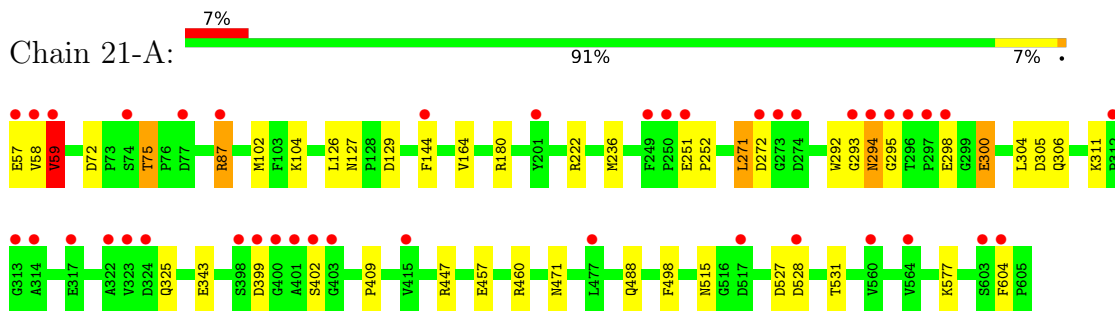
- Molecule 1: Putative secreted protein



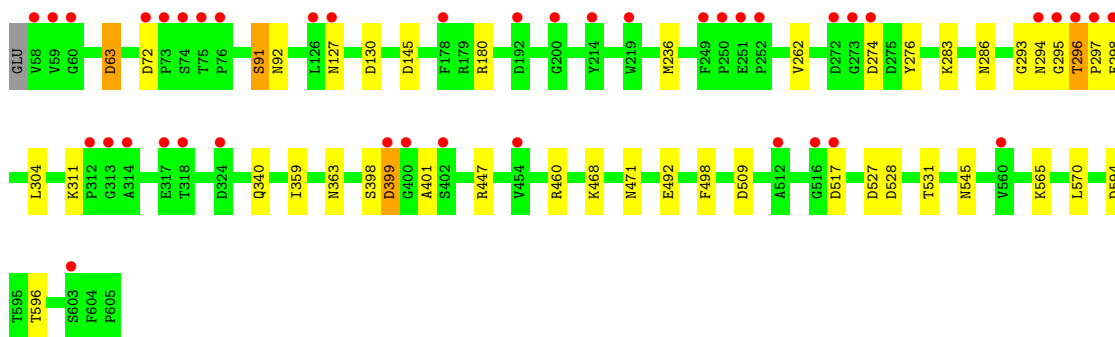
- Molecule 1: Putative secreted protein



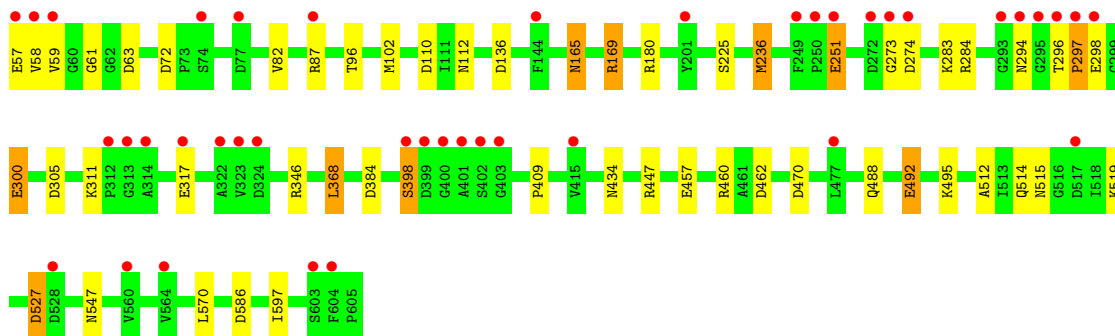
- Molecule 1: Putative secreted protein



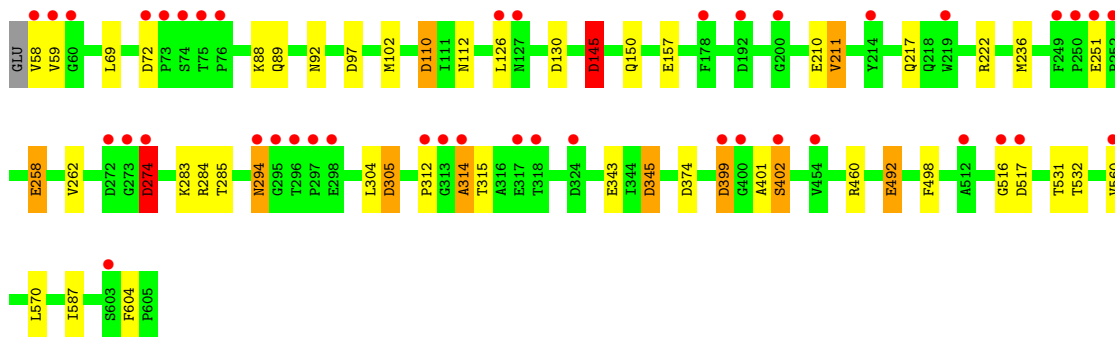
- Molecule 1: Putative secreted protein



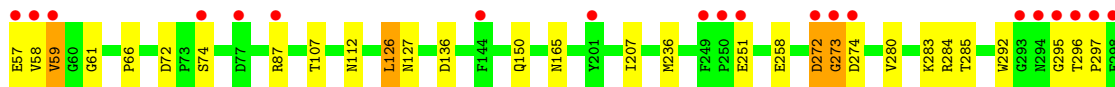
• Molecule 1: Putative secreted protein

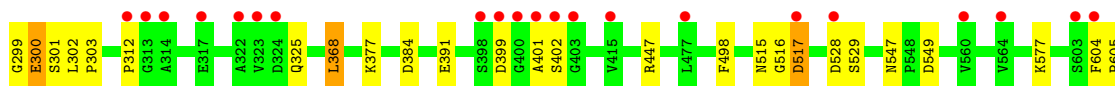


• Molecule 1: Putative secreted protein

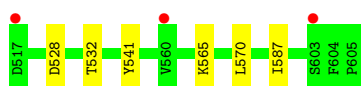


• Molecule 1: Putative secreted protein

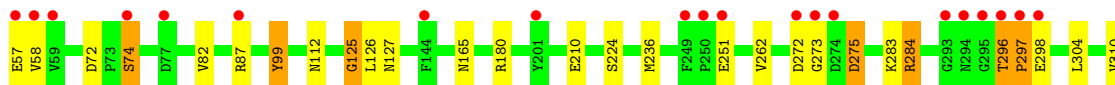




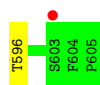
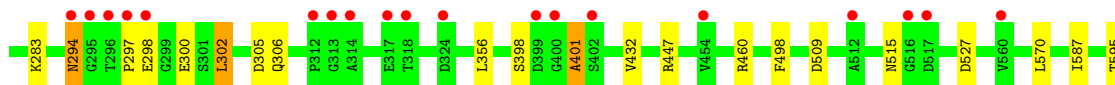
- Molecule 1: Putative secreted protein



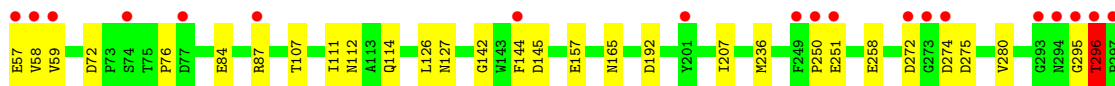
- Molecule 1: Putative secreted protein

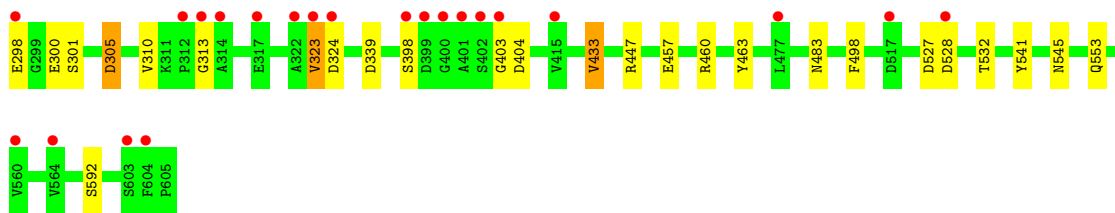


- Molecule 1: Putative secreted protein

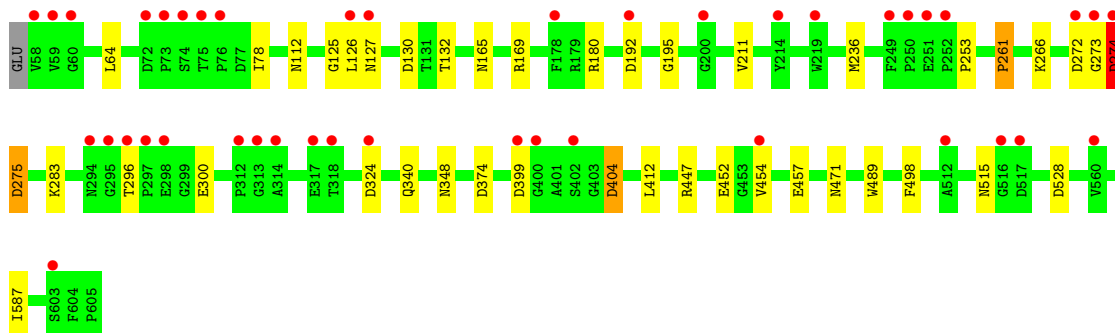


- Molecule 1: Putative secreted protein

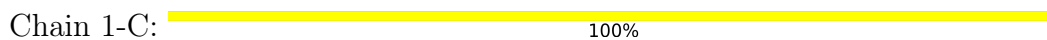




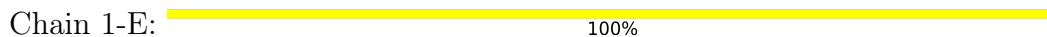
- Molecule 1: Putative secreted protein



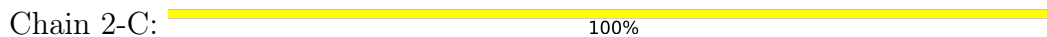
- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose



- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose



- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose




- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose



BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 3-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 3-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 4-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 4-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 5-C:  100%

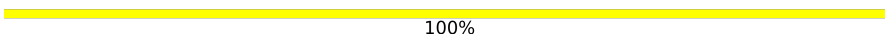
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 5-E:  100%

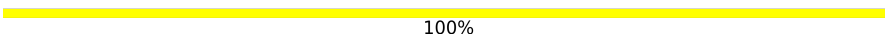
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 6-C:  100%

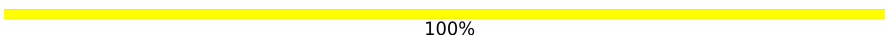
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 6-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 7-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 7-E:  100%

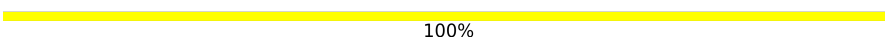
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 8-C:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 8-E:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 9-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 9-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 10-C:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 10-E:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 11-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 11-E:  100%

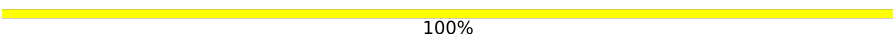
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 12-C:  100%

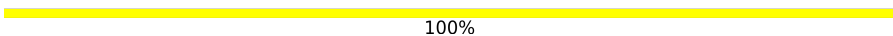
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 12-E:  100%

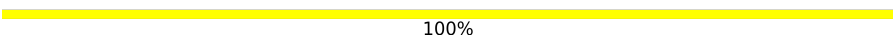
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 13-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 13-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 14-C:  100%

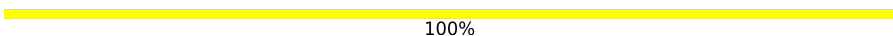
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 14-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6


- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 15-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6


- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose



Chain 15-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 16-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 16-E:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 17-C:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 17-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 18-C:  100%

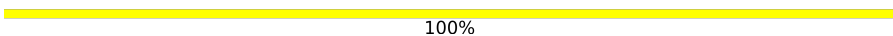
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 18-E:  100%

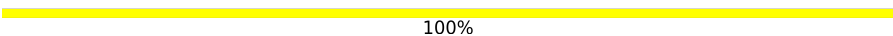
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 19-C:  100%

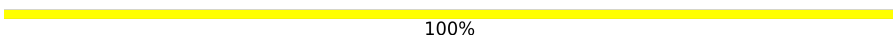
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 19-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 20-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 20-E:  100%

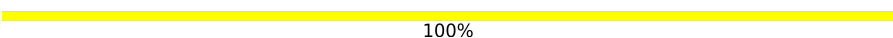
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 21-C:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 21-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 22-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 22-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 23-C:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 23-E:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 24-C:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 24-E:  100%

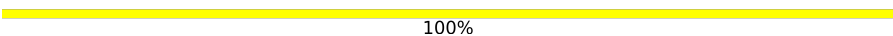
BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 25-C:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 2: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 25-E:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5  
BGC6

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 1-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 1-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 2-D:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 2-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 3-D:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 3-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 4-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 4-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 5-D:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 5-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 6-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 6-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 7-D:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 7-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 8-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 8-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 9-D:  100%

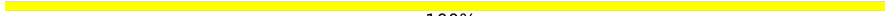
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 9-F:  100%

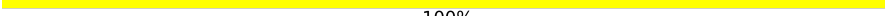
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 10-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 10-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 11-D:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 11-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 12-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 12-F:  100%

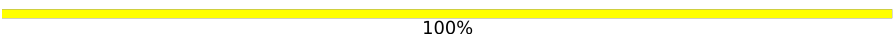
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 13-D:  100%

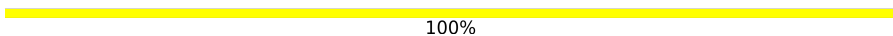
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 13-F:  100%

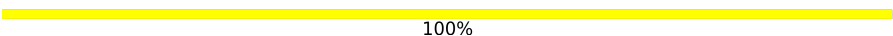
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 14-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 14-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 15-D:  100%

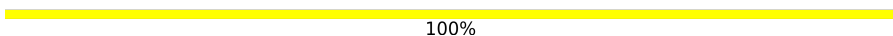
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 15-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5


- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 16-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5


- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose



Chain 16-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 17-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 17-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 18-D:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 18-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 19-D:  100%

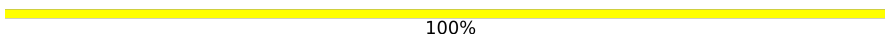
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 19-F:  100%

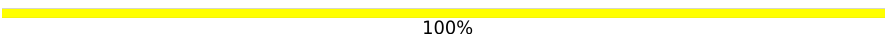
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 20-D:  100%

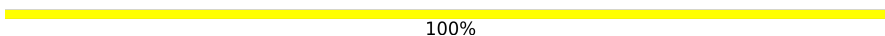
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 20-F:  100%

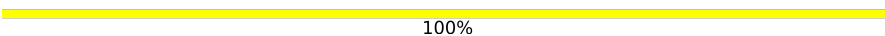
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 21-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 21-F:  100%

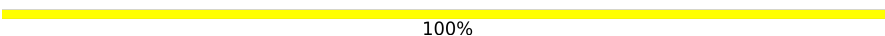
BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 22-D:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 22-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 23-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 23-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 24-D:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 24-F:  100%


BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 25-D:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

- Molecule 3: beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose-(1-3)-beta-D-glucopyranose

Chain 25-F:  100%

BGC1  
BGC2  
BGC3  
BGC4  
BGC5

## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	54.10Å 100.96Å 104.18Å 90.00° 91.10° 90.00°	Depositor
Resolution (Å)	30.30 – 1.75 30.30 – 1.75	Depositor EDS
% Data completeness (in resolution range)	99.7 (30.30-1.75) 93.6 (30.30-1.75)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.37 (at 1.75Å)	Xtrriage
Refinement program	PHENIX (phenix.ensemble_refinement: 1.9_1692)	Depositor
R, $R_{free}$	0.122 , 0.163 0.148 , 0.187	Depositor DCC
$R_{free}$ test set	5640 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	14.7	Xtrriage
Anisotropy	0.140	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 229.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.52$ , $\langle L^2 \rangle = 0.35$	Xtrriage
Estimated twinning fraction	0.000 for -h,l,k 0.000 for -h,-l,-k 0.026 for h,-k,-l	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	427968	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	13.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 49.79 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.0959e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: EDO, BGC

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 5$	RMSZ	# $ Z  > 5$
1	1-A	0.86	3/4280 (0.1%)	0.95	14/5848 (0.2%)
1	1-B	0.87	7/4271 (0.2%)	0.92	6/5836 (0.1%)
1	2-A	0.88	7/4280 (0.2%)	0.96	13/5848 (0.2%)
1	2-B	0.87	6/4271 (0.1%)	0.95	12/5836 (0.2%)
1	3-A	0.86	3/4280 (0.1%)	0.93	11/5848 (0.2%)
1	3-B	0.89	9/4271 (0.2%)	0.97	12/5836 (0.2%)
1	4-A	0.84	4/4280 (0.1%)	0.96	12/5848 (0.2%)
1	4-B	0.86	4/4271 (0.1%)	0.91	5/5836 (0.1%)
1	5-A	0.95	12/4280 (0.3%)	1.03	26/5848 (0.4%)
1	5-B	0.87	5/4271 (0.1%)	0.97	16/5836 (0.3%)
1	6-A	0.89	8/4280 (0.2%)	1.00	14/5848 (0.2%)
1	6-B	0.89	8/4271 (0.2%)	0.97	13/5836 (0.2%)
1	7-A	0.87	7/4280 (0.2%)	0.97	11/5848 (0.2%)
1	7-B	0.83	4/4271 (0.1%)	0.92	6/5836 (0.1%)
1	8-A	0.88	8/4280 (0.2%)	0.98	11/5848 (0.2%)
1	8-B	0.89	11/4271 (0.3%)	0.98	15/5836 (0.3%)
1	9-A	0.90	7/4280 (0.2%)	0.95	10/5848 (0.2%)
1	9-B	0.86	6/4271 (0.1%)	0.90	8/5836 (0.1%)
1	10-A	0.91	9/4280 (0.2%)	0.99	14/5848 (0.2%)
1	10-B	0.88	4/4271 (0.1%)	1.01	14/5836 (0.2%)
1	11-A	0.84	4/4280 (0.1%)	0.94	7/5848 (0.1%)
1	11-B	0.83	3/4271 (0.1%)	0.93	9/5836 (0.2%)
1	12-A	0.89	7/4280 (0.2%)	0.93	8/5848 (0.1%)
1	12-B	0.88	9/4271 (0.2%)	0.98	13/5836 (0.2%)
1	13-A	0.89	7/4280 (0.2%)	0.97	13/5848 (0.2%)
1	13-B	0.84	3/4271 (0.1%)	0.96	17/5836 (0.3%)
1	14-A	0.88	7/4280 (0.2%)	1.00	17/5848 (0.3%)
1	14-B	0.88	5/4271 (0.1%)	0.96	8/5836 (0.1%)
1	15-A	0.88	9/4280 (0.2%)	0.94	13/5848 (0.2%)
1	15-B	0.87	7/4271 (0.2%)	0.98	14/5836 (0.2%)
1	16-A	0.87	5/4280 (0.1%)	0.95	12/5848 (0.2%)
1	16-B	0.85	2/4271 (0.0%)	0.94	11/5836 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	17-A	0.86	2/4280 (0.0%)	0.98	14/5848 (0.2%)
1	17-B	0.87	6/4271 (0.1%)	0.95	10/5836 (0.2%)
1	18-A	0.91	6/4280 (0.1%)	0.98	16/5848 (0.3%)
1	18-B	0.87	5/4271 (0.1%)	0.95	11/5836 (0.2%)
1	19-A	0.86	5/4280 (0.1%)	0.96	17/5848 (0.3%)
1	19-B	0.83	7/4271 (0.2%)	0.93	11/5836 (0.2%)
1	20-A	0.88	4/4280 (0.1%)	0.95	11/5848 (0.2%)
1	20-B	0.84	6/4271 (0.1%)	0.98	16/5836 (0.3%)
1	21-A	0.85	5/4280 (0.1%)	0.94	12/5848 (0.2%)
1	21-B	0.81	4/4271 (0.1%)	0.91	8/5836 (0.1%)
1	22-A	0.89	8/4280 (0.2%)	1.02	21/5848 (0.4%)
1	22-B	0.87	6/4271 (0.1%)	0.95	13/5836 (0.2%)
1	23-A	0.89	4/4280 (0.1%)	0.98	15/5848 (0.3%)
1	23-B	0.88	8/4271 (0.2%)	0.98	8/5836 (0.1%)
1	24-A	0.85	2/4280 (0.0%)	0.95	12/5848 (0.2%)
1	24-B	0.85	5/4271 (0.1%)	0.95	8/5836 (0.1%)
1	25-A	0.86	3/4280 (0.1%)	0.99	14/5848 (0.2%)
1	25-B	0.85	4/4271 (0.1%)	0.95	8/5836 (0.1%)
All	All	0.87	290/213775 (0.1%)	0.96	610/292100 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1-A	0	1
1	1-B	0	4
1	2-A	0	3
1	2-B	0	2
1	3-A	0	1
1	3-B	0	2
1	4-A	0	2
1	4-B	0	1
1	5-A	0	2
1	5-B	0	1
1	6-A	0	5
1	6-B	0	1
1	7-A	0	3
1	7-B	0	1
1	8-A	0	3
1	8-B	0	1

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	#Chirality outliers	#Planarity outliers
1	9-A	0	3
1	9-B	0	1
1	10-A	0	1
1	10-B	0	4
1	11-A	0	1
1	12-A	0	2
1	12-B	0	2
1	13-A	0	4
1	13-B	0	1
1	14-A	0	1
1	14-B	0	5
1	15-A	0	1
1	15-B	0	2
1	16-A	0	2
1	16-B	0	2
1	17-A	0	4
1	17-B	1	1
1	18-A	0	1
1	18-B	0	2
1	19-A	0	1
1	19-B	0	3
1	20-A	0	1
1	20-B	0	2
1	21-A	0	1
1	21-B	0	3
1	22-A	0	4
1	22-B	0	1
1	23-A	0	3
1	23-B	0	3
1	24-A	0	2
1	24-B	0	2
1	25-A	0	4
1	25-B	0	2
All	All	1	105

All (290) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2-A	457	GLU	CB-CG	10.83	1.72	1.52
1	24-B	211	VAL	CB-CG2	-10.77	1.30	1.52
1	20-A	170	TRP	CB-CG	-10.53	1.31	1.50
1	10-A	417	VAL	CB-CG2	-10.53	1.30	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3-B	452	GLU	CB-CG	9.69	1.70	1.52
1	16-B	492	GLU	CB-CG	9.61	1.70	1.52
1	1-B	454	VAL	CB-CG1	-9.45	1.32	1.52
1	4-B	157	GLU	CG-CD	9.43	1.66	1.51
1	6-A	492	GLU	CG-CD	9.32	1.66	1.51
1	2-A	99	TYR	CD1-CE1	-9.16	1.25	1.39
1	14-B	300	GLU	CB-CG	8.92	1.69	1.52
1	24-A	99	TYR	CD1-CE1	-8.90	1.25	1.39
1	19-A	492	GLU	CB-CG	8.88	1.69	1.52
1	18-A	180	ARG	CB-CG	-8.85	1.28	1.52
1	3-A	417	VAL	CB-CG1	-8.79	1.34	1.52
1	22-B	258	GLU	CB-CG	8.50	1.68	1.52
1	18-B	543	TYR	CB-CG	8.47	1.64	1.51
1	22-A	519	LYS	CE-NZ	8.37	1.70	1.49
1	18-B	543	TYR	CD1-CE1	8.33	1.51	1.39
1	3-A	99	TYR	CD1-CE1	-8.29	1.26	1.39
1	18-A	391	GLU	CG-CD	8.27	1.64	1.51
1	9-B	457	GLU	CG-CD	8.26	1.64	1.51
1	4-A	298	GLU	CB-CG	8.18	1.67	1.52
1	6-A	404	ASP	CB-CG	8.17	1.68	1.51
1	4-B	157	GLU	CB-CG	8.06	1.67	1.52
1	12-B	298	GLU	CB-CG	8.02	1.67	1.52
1	2-B	377	LYS	CB-CG	-7.99	1.30	1.52
1	11-A	89	GLN	CB-CG	-7.98	1.30	1.52
1	8-B	77	ASP	CB-CG	7.93	1.68	1.51
1	6-B	298	GLU	CB-CG	7.91	1.67	1.52
1	22-A	492	GLU	CB-CG	7.87	1.67	1.52
1	2-A	457	GLU	CG-CD	7.85	1.63	1.51
1	23-B	492	GLU	CG-CD	-7.85	1.40	1.51
1	6-B	258	GLU	CB-CG	7.84	1.67	1.52
1	12-A	457	GLU	CG-CD	7.81	1.63	1.51
1	8-B	492	GLU	CB-CG	7.80	1.67	1.52
1	1-B	377	LYS	CD-CE	7.77	1.70	1.51
1	18-A	164	VAL	CB-CG1	-7.70	1.36	1.52
1	12-A	265	GLU	CD-OE1	7.62	1.34	1.25
1	10-A	99	TYR	CD1-CE1	-7.61	1.27	1.39
1	12-A	89	GLN	CG-CD	-7.59	1.33	1.51
1	14-B	145	ASP	CB-CG	7.51	1.67	1.51
1	2-A	343	GLU	CG-CD	7.49	1.63	1.51
1	7-A	300	GLU	CG-CD	7.48	1.63	1.51
1	22-B	343	GLU	CG-CD	7.48	1.63	1.51
1	10-A	452	GLU	CB-CG	-7.45	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1-A	391	GLU	CB-CG	-7.44	1.38	1.52
1	9-A	417	VAL	CB-CG1	-7.44	1.37	1.52
1	14-A	452	GLU	CB-CG	7.44	1.66	1.52
1	23-B	229	TRP	N-CA	7.43	1.61	1.46
1	14-A	457	GLU	CG-CD	7.42	1.63	1.51
1	6-A	399	ASP	CB-CG	7.42	1.67	1.51
1	6-B	317	GLU	CB-CG	7.41	1.66	1.52
1	12-B	343	GLU	CG-CD	7.39	1.63	1.51
1	20-B	305	ASP	CB-CG	7.36	1.67	1.51
1	2-B	258	GLU	CB-CG	7.34	1.66	1.52
1	15-B	157	GLU	CD-OE2	7.29	1.33	1.25
1	17-A	210	GLU	CG-CD	7.29	1.62	1.51
1	3-B	169	ARG	CG-CD	7.28	1.70	1.51
1	5-A	372	ASP	CB-CG	-7.28	1.36	1.51
1	8-A	57	GLU	CG-CD	7.27	1.62	1.51
1	14-B	345	ASP	CB-CG	7.25	1.67	1.51
1	1-B	404	ASP	CB-CG	7.25	1.67	1.51
1	6-A	457	GLU	CG-CD	7.22	1.62	1.51
1	15-A	164	VAL	CB-CG1	-7.22	1.37	1.52
1	20-A	300	GLU	CB-CG	7.19	1.65	1.52
1	7-A	300	GLU	CB-CG	7.17	1.65	1.52
1	15-A	90	GLU	CD-OE2	-7.17	1.17	1.25
1	7-B	107	THR	CB-CG2	-7.12	1.28	1.52
1	18-B	157	GLU	CD-OE1	7.08	1.33	1.25
1	3-B	391	GLU	CB-CG	7.05	1.65	1.52
1	9-B	84	GLU	CB-CG	7.05	1.65	1.52
1	11-A	457	GLU	CG-CD	7.04	1.62	1.51
1	16-A	452	GLU	CB-CG	7.03	1.65	1.52
1	3-B	452	GLU	CG-CD	7.00	1.62	1.51
1	5-A	297	PRO	CA-C	6.99	1.66	1.52
1	18-B	262	VAL	CB-CG1	-6.95	1.38	1.52
1	14-A	164	VAL	CB-CG1	-6.93	1.38	1.52
1	8-B	258	GLU	CB-CG	6.89	1.65	1.52
1	8-B	452	GLU	CB-CG	6.89	1.65	1.52
1	10-B	343	GLU	CG-CD	-6.89	1.41	1.51
1	5-A	258	GLU	CB-CG	6.83	1.65	1.52
1	8-A	433	VAL	CB-CG2	-6.80	1.38	1.52
1	2-A	298	GLU	CG-CD	6.78	1.62	1.51
1	5-A	452	GLU	CB-CG	6.78	1.65	1.52
1	4-A	298	GLU	CG-CD	6.76	1.62	1.51
1	5-A	58	VAL	CB-CG1	-6.73	1.38	1.52
1	9-A	495	LYS	CE-NZ	6.70	1.65	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5-A	492	GLU	CB-CG	6.68	1.64	1.52
1	6-B	317	GLU	CG-CD	6.68	1.61	1.51
1	3-B	262	VAL	CB-CG2	-6.67	1.38	1.52
1	9-A	258	GLU	CB-CG	6.64	1.64	1.52
1	3-B	210	GLU	CG-CD	6.64	1.61	1.51
1	15-A	543	TYR	CD1-CE1	-6.64	1.29	1.39
1	5-A	343	GLU	CG-CD	6.61	1.61	1.51
1	11-B	170	TRP	CB-CG	6.61	1.62	1.50
1	15-B	300	GLU	CB-CG	6.60	1.64	1.52
1	20-A	493	ASN	CB-CG	6.54	1.66	1.51
1	2-B	306	GLN	CB-CG	-6.54	1.34	1.52
1	13-A	164	VAL	CB-CG1	-6.52	1.39	1.52
1	7-B	457	GLU	CG-CD	6.51	1.61	1.51
1	9-A	306	GLN	CB-CG	6.50	1.70	1.52
1	6-B	545	ASN	CB-CG	-6.46	1.36	1.51
1	16-A	495	LYS	CE-NZ	6.44	1.65	1.49
1	23-A	272	ASP	CB-CG	6.44	1.65	1.51
1	8-B	127	ASN	CB-CG	6.42	1.65	1.51
1	15-B	102	MET	CB-CG	6.42	1.71	1.51
1	9-B	316	ALA	CA-CB	-6.41	1.39	1.52
1	2-A	97	ASP	CB-CG	6.41	1.65	1.51
1	6-A	422	ALA	C-O	6.39	1.35	1.23
1	24-B	169	ARG	CG-CD	6.38	1.67	1.51
1	5-B	97	ASP	CA-CB	-6.37	1.40	1.53
1	15-B	452	GLU	CB-CG	-6.37	1.40	1.52
1	17-B	84	GLU	CG-CD	6.37	1.61	1.51
1	13-A	488	GLN	CB-CG	-6.35	1.35	1.52
1	6-B	505	TYR	CD2-CE2	6.33	1.48	1.39
1	23-A	391	GLU	CD-OE1	6.32	1.32	1.25
1	10-A	545	ASN	CB-CG	6.31	1.65	1.51
1	18-A	391	GLU	CB-CG	6.30	1.64	1.52
1	23-B	262	VAL	CB-CG1	-6.28	1.39	1.52
1	22-A	300	GLU	CB-CG	6.26	1.64	1.52
1	21-A	251	GLU	CG-CD	6.24	1.61	1.51
1	18-B	157	GLU	CG-CD	6.24	1.61	1.51
1	8-B	460	ARG	CG-CD	6.24	1.67	1.51
1	3-B	391	GLU	CG-CD	6.23	1.61	1.51
1	5-B	242	GLU	CG-CD	6.21	1.61	1.51
1	5-A	155	SER	CB-OG	-6.21	1.34	1.42
1	12-B	528	ASP	CB-CG	-6.21	1.38	1.51
1	11-B	169	ARG	CG-CD	6.20	1.67	1.51
1	7-B	488	GLN	CG-CD	6.18	1.65	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	21-B	492	GLU	CG-CD	6.18	1.61	1.51
1	2-B	519	LYS	CE-NZ	6.17	1.64	1.49
1	14-A	452	GLU	CG-CD	6.17	1.61	1.51
1	15-A	258	GLU	CB-CG	6.16	1.63	1.52
1	13-B	454	VAL	CB-CG1	-6.15	1.40	1.52
1	22-B	343	GLU	CB-CG	6.15	1.63	1.52
1	13-A	527	ASP	CB-CG	6.14	1.64	1.51
1	6-A	433	VAL	CB-CG2	-6.14	1.40	1.52
1	16-A	452	GLU	CG-CD	6.14	1.61	1.51
1	18-A	395	GLU	CD-OE2	-6.13	1.19	1.25
1	25-B	404	ASP	CB-CG	6.12	1.64	1.51
1	21-A	252	PRO	CA-C	6.12	1.65	1.52
1	12-A	89	GLN	CB-CG	6.11	1.69	1.52
1	17-B	457	GLU	CG-CD	-6.11	1.42	1.51
1	6-A	492	GLU	CB-CG	6.11	1.63	1.52
1	7-A	62	GLY	CA-C	6.08	1.61	1.51
1	7-A	97	ASP	CB-CG	6.04	1.64	1.51
1	20-B	454	VAL	CB-CG1	-6.04	1.40	1.52
1	8-A	452	GLU	CB-CG	6.04	1.63	1.52
1	10-B	596	THR	CB-CG2	-6.01	1.32	1.52
1	14-A	157	GLU	CD-OE2	6.01	1.32	1.25
1	5-A	84	GLU	CG-CD	6.00	1.60	1.51
1	2-A	343	GLU	CB-CG	5.97	1.63	1.52
1	10-A	155	SER	CB-OG	-5.97	1.34	1.42
1	12-B	127	ASN	CB-CG	5.93	1.64	1.51
1	14-A	300	GLU	CB-CG	-5.93	1.40	1.52
1	22-A	251	GLU	CG-CD	-5.92	1.43	1.51
1	15-B	300	GLU	N-CA	5.92	1.58	1.46
1	8-B	434	ASN	CB-CG	-5.92	1.37	1.51
1	1-A	184	LYS	CE-NZ	5.89	1.63	1.49
1	2-B	300	GLU	CG-CD	5.89	1.60	1.51
1	12-A	192	ASP	CB-CG	-5.85	1.39	1.51
1	19-B	316	ALA	CA-CB	-5.85	1.40	1.52
1	24-B	300	GLU	CB-CG	5.83	1.63	1.52
1	13-A	305	ASP	CB-CG	5.83	1.64	1.51
1	1-B	127	ASN	CB-CG	5.83	1.64	1.51
1	6-B	345	ASP	CB-CG	-5.82	1.39	1.51
1	8-A	317	GLU	CB-CG	5.81	1.63	1.52
1	10-A	169	ARG	CZ-NH2	5.80	1.40	1.33
1	23-A	391	GLU	CD-OE2	5.79	1.32	1.25
1	9-B	454	VAL	CB-CG2	-5.79	1.40	1.52
1	5-A	519	LYS	CD-CE	5.77	1.65	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	10-A	300	GLU	CG-CD	5.75	1.60	1.51
1	19-B	242	GLU	CD-OE1	5.74	1.31	1.25
1	15-A	90	GLU	CD-OE1	-5.72	1.19	1.25
1	4-A	452	GLU	CB-CG	5.72	1.63	1.52
1	19-B	300	GLU	CB-CG	5.72	1.63	1.52
1	23-A	273	GLY	C-O	5.72	1.32	1.23
1	19-A	317	GLU	CB-CG	5.71	1.63	1.52
1	21-A	457	GLU	CG-CD	5.71	1.60	1.51
1	18-A	454	VAL	CB-CG2	-5.68	1.41	1.52
1	6-A	339	ASP	CB-CG	5.68	1.63	1.51
1	23-B	457	GLU	CG-CD	5.67	1.60	1.51
1	13-A	84	GLU	CG-CD	5.67	1.60	1.51
1	20-B	266	LYS	CD-CE	5.67	1.65	1.51
1	2-B	300	GLU	CB-CG	5.66	1.62	1.52
1	16-A	527	ASP	CB-CG	5.65	1.63	1.51
1	11-A	417	VAL	CB-CG1	-5.65	1.41	1.52
1	20-B	150	GLN	CB-CG	5.65	1.67	1.52
1	21-A	300	GLU	CB-CG	5.62	1.62	1.52
1	25-A	463	TYR	CE1-CZ	-5.61	1.31	1.38
1	23-B	384	ASP	CB-CG	5.61	1.63	1.51
1	19-B	485	TYR	CD1-CE1	-5.60	1.30	1.39
1	9-A	452	GLU	CG-CD	5.59	1.60	1.51
1	5-B	258	GLU	CB-CG	-5.58	1.41	1.52
1	23-B	306	GLN	CB-CG	5.58	1.67	1.52
1	5-A	258	GLU	CG-CD	-5.57	1.43	1.51
1	9-B	266	LYS	CD-CE	5.56	1.65	1.51
1	19-B	262	VAL	CB-CG1	-5.56	1.41	1.52
1	12-B	88	LYS	CB-CG	5.56	1.67	1.52
1	22-A	165	ASN	CB-CG	-5.55	1.38	1.51
1	25-B	300	GLU	CG-CD	5.54	1.60	1.51
1	1-B	399	ASP	CB-CG	-5.53	1.40	1.51
1	24-B	170	TRP	CB-CG	5.53	1.60	1.50
1	7-A	57	GLU	CB-CG	5.52	1.62	1.52
1	4-B	145	ASP	CB-CG	5.51	1.63	1.51
1	20-A	110	ASP	CB-CG	-5.50	1.40	1.51
1	12-B	180	ARG	CG-CD	5.49	1.65	1.51
1	20-B	170	TRP	CB-CG	5.48	1.60	1.50
1	19-A	262	VAL	CB-CG1	-5.48	1.41	1.52
1	1-A	517	ASP	CB-CG	5.48	1.63	1.51
1	22-B	157	GLU	CG-CD	5.48	1.60	1.51
1	14-A	457	GLU	CB-CG	5.47	1.62	1.52
1	12-B	339	ASP	CB-CG	5.46	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	15-A	300	GLU	CB-CG	5.46	1.62	1.52
1	17-A	210	GLU	CB-CG	5.45	1.62	1.52
1	4-B	258	GLU	CB-CG	5.42	1.62	1.52
1	9-B	262	VAL	CB-CG1	-5.40	1.41	1.52
1	22-B	492	GLU	CD-OE1	5.40	1.31	1.25
1	19-A	298	GLU	CG-CD	-5.40	1.43	1.51
1	14-B	312	PRO	CA-C	5.38	1.63	1.52
1	9-A	306	GLN	CG-CD	5.37	1.63	1.51
1	17-B	258	GLU	CG-CD	-5.37	1.44	1.51
1	25-A	157	GLU	CD-OE1	5.36	1.31	1.25
1	8-B	317	GLU	CG-CD	5.35	1.59	1.51
1	14-B	395	GLU	CB-CG	5.34	1.62	1.52
1	25-B	283	LYS	CE-NZ	5.33	1.62	1.49
1	12-A	340	GLN	CG-CD	5.33	1.63	1.51
1	10-B	468	LYS	CE-NZ	5.33	1.62	1.49
1	21-B	527	ASP	CB-CG	-5.33	1.40	1.51
1	3-B	96	THR	CA-CB	-5.31	1.39	1.53
1	25-A	457	GLU	CD-OE2	5.30	1.31	1.25
1	16-B	87	ARG	CB-CG	5.29	1.66	1.52
1	17-B	150	GLN	CG-CD	5.29	1.63	1.51
1	21-B	276	TYR	CD2-CE2	-5.29	1.31	1.39
1	15-B	298	GLU	N-CA	5.29	1.56	1.46
1	25-B	300	GLU	CB-CG	5.28	1.62	1.52
1	10-A	169	ARG	CG-CD	5.25	1.65	1.51
1	15-A	426	LYS	CE-NZ	5.25	1.62	1.49
1	19-B	112	ASN	CB-CG	5.24	1.63	1.51
1	6-B	102	MET	CB-CG	5.23	1.68	1.51
1	9-A	605	PRO	CA-C	5.23	1.63	1.52
1	8-B	457	GLU	CD-OE1	5.23	1.31	1.25
1	21-B	91	SER	CB-OG	-5.23	1.35	1.42
1	21-A	343	GLU	CB-CG	5.22	1.62	1.52
1	12-B	340	GLN	CG-CD	5.21	1.63	1.51
1	19-A	324	ASP	CB-CG	5.21	1.62	1.51
1	23-B	305	ASP	CB-CG	5.20	1.62	1.51
1	24-B	169	ARG	CZ-NH2	5.19	1.39	1.33
1	22-B	262	VAL	CB-CG1	-5.19	1.42	1.52
1	20-B	505	TYR	CD2-CE2	-5.19	1.31	1.39
1	8-A	581	GLU	CD-OE1	-5.18	1.20	1.25
1	13-B	170	TRP	CB-CG	-5.18	1.41	1.50
1	16-A	298	GLU	CB-CG	5.17	1.61	1.52
1	11-B	452	GLU	CG-CD	5.17	1.59	1.51
1	22-A	495	LYS	CD-CE	5.17	1.64	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	22-A	495	LYS	CE-NZ	5.17	1.61	1.49
1	22-A	61	GLY	C-O	5.16	1.31	1.23
1	7-A	145	ASP	CB-CG	5.16	1.62	1.51
1	15-A	457	GLU	CB-CG	5.16	1.61	1.52
1	8-A	452	GLU	CG-CD	5.15	1.59	1.51
1	5-B	517	ASP	CA-CB	-5.14	1.42	1.53
1	10-A	84	GLU	CG-CD	5.13	1.59	1.51
1	5-B	346	ARG	CZ-NH2	5.12	1.39	1.33
1	24-A	493	ASN	CB-CG	-5.12	1.39	1.51
1	13-A	82	VAL	CB-CG2	5.11	1.63	1.52
1	8-A	82	VAL	CB-CG2	5.11	1.63	1.52
1	3-B	596	THR	CB-CG2	-5.10	1.35	1.52
1	8-A	272	ASP	CA-C	5.10	1.66	1.52
1	11-A	305	ASP	CB-CG	-5.09	1.41	1.51
1	23-B	229	TRP	CB-CG	5.09	1.59	1.50
1	3-A	452	GLU	CG-CD	5.09	1.59	1.51
1	17-B	490	SER	CB-OG	-5.09	1.35	1.42
1	19-B	505	TYR	CD2-CE2	-5.09	1.31	1.39
1	15-A	368	LEU	CG-CD2	-5.08	1.33	1.51
1	17-B	63	ASP	CB-CG	5.07	1.62	1.51
1	15-B	283	LYS	CD-CE	5.06	1.63	1.51
1	8-B	348	ASN	CB-CG	-5.05	1.39	1.51
1	13-A	127	ASN	CB-CG	5.03	1.62	1.51
1	1-B	145	ASP	CB-CG	5.03	1.62	1.51
1	4-A	581	GLU	CB-CG	5.03	1.61	1.52
1	12-B	88	LYS	CD-CE	5.03	1.63	1.51
1	1-B	345	ASP	CB-CG	-5.03	1.41	1.51
1	7-A	61	GLY	C-O	5.03	1.31	1.23
1	7-B	157	GLU	CD-OE1	5.03	1.31	1.25
1	8-B	505	TYR	CD2-CE2	-5.02	1.31	1.39
1	13-B	457	GLU	CG-CD	5.02	1.59	1.51
1	5-A	262	VAL	CB-CG1	-5.01	1.42	1.52
1	10-B	262	VAL	CB-CG2	-5.01	1.42	1.52
1	12-A	104	LYS	CE-NZ	5.01	1.61	1.49

All (610) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	14-A	460	ARG	NE-CZ-NH2	14.57	127.59	120.30
1	10-B	180	ARG	NE-CZ-NH1	13.36	126.98	120.30
1	24-B	460	ARG	NE-CZ-NH2	-13.32	113.64	120.30
1	17-A	538	MET	CG-SD-CE	-12.78	79.76	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5-B	97	ASP	CB-CG-OD1	-12.62	106.94	118.30
1	20-B	460	ARG	NE-CZ-NH1	12.56	126.58	120.30
1	22-A	368	LEU	CA-CB-CG	12.36	143.73	115.30
1	7-A	422	ALA	N-CA-C	-12.19	78.08	111.00
1	25-A	305	ASP	CB-CG-OD2	12.15	129.24	118.30
1	8-A	460	ARG	NE-CZ-NH2	12.12	126.36	120.30
1	13-A	305	ASP	CB-CG-OD2	11.72	128.85	118.30
1	15-B	102	MET	CG-SD-CE	11.61	118.78	100.20
1	19-A	460	ARG	NE-CZ-NH2	11.58	126.09	120.30
1	10-A	460	ARG	NE-CZ-NH2	11.39	126.00	120.30
1	23-A	368	LEU	CA-CB-CG	10.83	140.21	115.30
1	3-B	460	ARG	NE-CZ-NH2	-10.83	114.89	120.30
1	5-A	372	ASP	CB-CA-C	10.71	131.83	110.40
1	5-A	372	ASP	CB-CG-OD2	-10.39	108.95	118.30
1	5-A	404	ASP	CB-CG-OD2	-10.13	109.18	118.30
1	20-B	305	ASP	CB-CG-OD1	10.12	127.41	118.30
1	11-B	460	ARG	NE-CZ-NH1	9.93	125.27	120.30
1	3-B	180	ARG	NE-CZ-NH2	-9.91	115.34	120.30
1	16-A	296	THR	C-N-CD	-9.90	98.83	120.60
1	14-A	460	ARG	NE-CZ-NH1	-9.83	115.39	120.30
1	2-A	97	ASP	CB-CG-OD2	9.82	127.14	118.30
1	16-A	180	ARG	NE-CZ-NH2	-9.79	115.41	120.30
1	10-B	180	ARG	NE-CZ-NH2	-9.64	115.48	120.30
1	24-B	460	ARG	NE-CZ-NH1	9.56	125.08	120.30
1	2-A	180	ARG	NE-CZ-NH2	-9.55	115.53	120.30
1	25-A	460	ARG	NE-CZ-NH2	9.54	125.07	120.30
1	5-B	517	ASP	CB-CG-OD1	-9.51	109.75	118.30
1	8-A	180	ARG	NE-CZ-NH2	-9.47	115.57	120.30
1	13-B	460	ARG	NE-CZ-NH1	9.41	125.00	120.30
1	8-B	102	MET	CG-SD-CE	9.32	115.11	100.20
1	22-A	102	MET	CB-CG-SD	9.28	140.25	112.40
1	4-A	180	ARG	NE-CZ-NH2	-9.28	115.66	120.30
1	24-A	87	ARG	NE-CZ-NH1	-9.23	115.69	120.30
1	11-A	180	ARG	NE-CZ-NH2	-9.09	115.76	120.30
1	5-A	460	ARG	NE-CZ-NH2	9.04	124.82	120.30
1	20-A	180	ARG	NE-CZ-NH1	9.00	124.80	120.30
1	3-B	449	ASP	CB-CG-OD2	8.99	126.39	118.30
1	6-A	180	ARG	NE-CZ-NH2	-8.99	115.81	120.30
1	25-A	305	ASP	CB-CG-OD1	-8.98	110.22	118.30
1	24-B	302	LEU	CA-CB-CG	8.91	135.80	115.30
1	14-A	588	GLY	N-CA-C	8.87	135.28	113.10
1	22-A	346	ARG	NE-CZ-NH1	-8.87	115.87	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-B	527	ASP	CB-CG-OD1	-8.85	110.33	118.30
1	21-B	460	ARG	NE-CZ-NH1	8.85	124.72	120.30
1	4-A	460	ARG	NE-CZ-NH2	8.82	124.71	120.30
1	19-B	180	ARG	NE-CZ-NH1	8.74	124.67	120.30
1	9-A	368	LEU	CA-CB-CG	8.74	135.40	115.30
1	2-A	87	ARG	NE-CZ-NH1	-8.73	115.94	120.30
1	4-A	460	ARG	NE-CZ-NH1	-8.62	115.99	120.30
1	2-B	528	ASP	CB-CG-OD2	-8.62	110.54	118.30
1	20-A	110	ASP	CB-CG-OD2	-8.53	110.62	118.30
1	15-A	77	ASP	CB-CG-OD1	-8.45	110.70	118.30
1	19-B	293	GLY	N-CA-C	-8.41	92.08	113.10
1	10-A	460	ARG	NE-CZ-NH1	-8.36	116.12	120.30
1	13-B	384	ASP	CB-CG-OD1	-8.35	110.78	118.30
1	2-A	63	ASP	CB-CG-OD1	-8.34	110.79	118.30
1	20-B	460	ARG	NE-CZ-NH2	-8.24	116.18	120.30
1	13-B	589	ASP	CB-CG-OD2	-8.23	110.89	118.30
1	22-A	284	ARG	CG-CD-NE	8.21	129.03	111.80
1	14-A	130	ASP	CB-CG-OD1	8.17	125.65	118.30
1	5-A	284	ARG	NE-CZ-NH2	-8.11	116.25	120.30
1	15-A	90	GLU	OE1-CD-OE2	-8.09	113.59	123.30
1	20-A	180	ARG	NE-CZ-NH2	-8.03	116.29	120.30
1	20-B	126	LEU	CA-CB-CG	8.02	133.75	115.30
1	18-A	294	ASN	N-CA-C	-8.00	89.41	111.00
1	6-A	87	ARG	NE-CZ-NH1	-7.89	116.35	120.30
1	21-A	180	ARG	NE-CZ-NH1	-7.89	116.36	120.30
1	10-A	180	ARG	NE-CZ-NH1	7.88	124.24	120.30
1	10-A	169	ARG	NE-CZ-NH1	-7.82	116.39	120.30
1	16-B	77	ASP	CB-CG-OD1	-7.82	111.26	118.30
1	20-A	272	ASP	N-CA-C	-7.78	89.99	111.00
1	25-A	433	VAL	CG1-CB-CG2	-7.77	98.46	110.90
1	23-A	517	ASP	CB-CG-OD1	7.76	125.28	118.30
1	16-A	565	LYS	CD-CE-NZ	7.75	129.53	111.70
1	13-A	97	ASP	CB-CG-OD1	7.74	125.26	118.30
1	14-B	97	ASP	CB-CG-OD2	-7.73	111.34	118.30
1	23-A	126	LEU	CB-CG-CD1	7.72	124.13	111.00
1	6-A	87	ARG	NE-CZ-NH2	7.66	124.13	120.30
1	18-B	180	ARG	NE-CZ-NH2	-7.62	116.49	120.30
1	3-B	180	ARG	NE-CZ-NH1	7.62	124.11	120.30
1	12-B	460	ARG	NE-CZ-NH1	7.61	124.11	120.30
1	10-B	272	ASP	CB-CG-OD1	-7.61	111.45	118.30
1	10-A	549	ASP	CB-CG-OD2	7.61	125.15	118.30
1	9-B	399	ASP	CB-CG-OD2	7.60	125.14	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5-A	447	ARG	NE-CZ-NH2	-7.59	116.50	120.30
1	6-A	460	ARG	NE-CZ-NH1	-7.54	116.53	120.30
1	16-A	72	ASP	CB-CG-OD2	7.53	125.07	118.30
1	1-A	206	LYS	CD-CE-NZ	7.53	129.01	111.70
1	24-A	180	ARG	NE-CZ-NH2	-7.49	116.56	120.30
1	8-A	294	ASN	N-CA-C	7.48	131.19	111.00
1	22-A	236	MET	CG-SD-CE	-7.46	88.27	100.20
1	21-A	87	ARG	NE-CZ-NH2	7.45	124.03	120.30
1	3-A	589	ASP	CB-CG-OD1	7.45	125.00	118.30
1	13-A	180	ARG	NE-CZ-NH1	-7.44	116.58	120.30
1	1-A	517	ASP	CB-CG-OD1	7.43	124.99	118.30
1	20-B	274	ASP	CB-CG-OD1	7.43	124.99	118.30
1	8-A	87	ARG	NE-CZ-NH1	7.42	124.01	120.30
1	23-B	229	TRP	N-CA-C	7.42	131.03	111.00
1	8-B	274	ASP	CB-CG-OD2	7.42	124.98	118.30
1	2-A	457	GLU	CB-CA-C	7.41	125.21	110.40
1	22-A	165	ASN	CB-CA-C	-7.40	95.60	110.40
1	12-B	87	ARG	NE-CZ-NH1	7.40	124.00	120.30
1	20-B	374	ASP	CB-CG-OD1	7.38	124.94	118.30
1	17-B	527	ASP	CB-CG-OD2	7.37	124.94	118.30
1	20-B	586	ASP	CB-CG-OD1	-7.37	111.67	118.30
1	24-A	312	PRO	N-CA-C	7.36	131.24	112.10
1	22-B	460	ARG	NE-CZ-NH1	7.35	123.97	120.30
1	11-A	180	ARG	NE-CZ-NH1	7.34	123.97	120.30
1	1-A	346	ARG	NE-CZ-NH2	-7.34	116.63	120.30
1	6-A	457	GLU	OE1-CD-OE2	-7.33	114.50	123.30
1	23-A	273	GLY	N-CA-C	7.33	131.43	113.10
1	22-A	87	ARG	NE-CZ-NH1	-7.32	116.64	120.30
1	14-B	271	LEU	N-CA-C	7.31	130.73	111.00
1	18-B	527	ASP	CB-CG-OD1	7.30	124.87	118.30
1	5-A	284	ARG	NE-CZ-NH1	7.27	123.94	120.30
1	25-A	460	ARG	NE-CZ-NH1	-7.27	116.67	120.30
1	4-B	273	GLY	N-CA-C	-7.26	94.95	113.10
1	18-A	447	ARG	NE-CZ-NH2	-7.26	116.67	120.30
1	10-A	180	ARG	NE-CZ-NH2	-7.25	116.67	120.30
1	23-B	208	ASP	CB-CG-OD2	7.25	124.83	118.30
1	15-B	299	GLY	N-CA-C	7.19	131.08	113.10
1	17-A	294	ASN	N-CA-C	-7.18	91.62	111.00
1	5-A	297	PRO	N-CA-C	7.17	130.74	112.10
1	2-A	63	ASP	CB-CG-OD2	7.16	124.75	118.30
1	3-A	180	ARG	NE-CZ-NH2	-7.16	116.72	120.30
1	15-A	460	ARG	NE-CZ-NH2	7.16	123.88	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-A	529	SER	N-CA-CB	-7.15	99.77	110.50
1	19-A	460	ARG	NE-CZ-NH1	-7.15	116.72	120.30
1	22-A	368	LEU	CB-CG-CD2	7.13	123.13	111.00
1	18-B	126	LEU	CA-CB-CG	7.12	131.67	115.30
1	23-A	126	LEU	CA-CB-CG	7.11	131.66	115.30
1	22-B	345	ASP	CB-CG-OD1	-7.10	111.91	118.30
1	2-B	528	ASP	CB-CG-OD1	7.08	124.67	118.30
1	4-A	296	THR	C-N-CD	-7.08	105.02	120.60
1	8-B	180	ARG	NE-CZ-NH1	-7.08	116.76	120.30
1	16-B	87	ARG	NE-CZ-NH1	7.05	123.83	120.30
1	17-A	164	VAL	CB-CA-C	-7.05	98.00	111.40
1	5-B	346	ARG	NE-CZ-NH1	-7.04	116.78	120.30
1	18-A	145	ASP	CB-CA-C	7.04	124.47	110.40
1	19-B	180	ARG	NE-CZ-NH2	-7.03	116.79	120.30
1	13-B	301	SER	N-CA-CB	-7.02	99.97	110.50
1	8-A	275	ASP	N-CA-C	7.00	129.91	111.00
1	5-A	271	LEU	CA-CB-CG	6.99	131.37	115.30
1	19-A	324	ASP	CB-CG-OD1	6.98	124.58	118.30
1	3-B	528	ASP	CB-CG-OD2	-6.98	112.02	118.30
1	7-A	97	ASP	CB-CG-OD1	6.97	124.57	118.30
1	16-A	164	VAL	CB-CA-C	-6.95	98.20	111.40
1	1-A	447	ARG	NE-CZ-NH2	-6.93	116.83	120.30
1	18-A	395	GLU	OE1-CD-OE2	-6.93	114.99	123.30
1	6-B	102	MET	CG-SD-CE	6.91	111.25	100.20
1	7-B	468	LYS	CD-CE-NZ	6.90	127.58	111.70
1	3-B	447	ARG	NE-CZ-NH2	-6.90	116.85	120.30
1	25-B	169	ARG	NE-CZ-NH2	-6.89	116.85	120.30
1	6-A	399	ASP	CB-CG-OD1	6.89	124.50	118.30
1	6-A	422	ALA	N-CA-C	-6.88	92.42	111.00
1	5-A	460	ARG	NE-CZ-NH1	-6.87	116.86	120.30
1	16-A	447	ARG	NE-CZ-NH2	-6.87	116.86	120.30
1	23-A	295	GLY	N-CA-C	6.87	130.26	113.10
1	10-A	447	ARG	NE-CZ-NH2	-6.86	116.87	120.30
1	5-A	305	ASP	CB-CG-OD2	6.85	124.47	118.30
1	13-A	346	ARG	NE-CZ-NH2	6.84	123.72	120.30
1	8-A	296	THR	C-N-CD	-6.83	105.56	120.60
1	1-A	586	ASP	CB-CG-OD2	6.82	124.44	118.30
1	8-B	369	LYS	CD-CE-NZ	6.82	127.38	111.70
1	15-B	324	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	22-B	97	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	3-A	180	ARG	NE-CZ-NH1	6.80	123.70	120.30
1	13-A	399	ASP	CB-CG-OD1	6.79	124.41	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9-B	339	ASP	CB-CG-OD2	6.78	124.40	118.30
1	21-B	399	ASP	CB-CG-OD1	6.78	124.40	118.30
1	1-B	345	ASP	CB-CG-OD1	-6.77	112.21	118.30
1	18-A	145	ASP	CB-CG-OD2	6.76	124.38	118.30
1	17-B	345	ASP	CB-CA-C	6.76	123.92	110.40
1	5-A	272	ASP	N-CA-C	6.76	129.25	111.00
1	25-A	296	THR	C-N-CD	6.75	142.56	128.40
1	12-B	298	GLU	N-CA-CB	6.74	122.74	110.60
1	19-B	447	ARG	NE-CZ-NH2	-6.74	116.93	120.30
1	5-A	272	ASP	CB-CG-OD2	-6.74	112.24	118.30
1	25-B	274	ASP	CB-CG-OD1	6.72	124.35	118.30
1	5-B	102	MET	CG-SD-CE	6.72	110.95	100.20
1	1-A	266	LYS	CD-CE-NZ	6.67	127.04	111.70
1	10-B	78	ILE	N-CA-C	6.67	129.00	111.00
1	2-B	404	ASP	CB-CG-OD2	6.66	124.29	118.30
1	25-B	283	LYS	CD-CE-NZ	6.66	127.01	111.70
1	14-A	368	LEU	CA-CB-CG	6.65	130.59	115.30
1	19-B	460	ARG	NE-CZ-NH2	-6.63	116.99	120.30
1	7-A	423	GLY	N-CA-C	6.63	129.67	113.10
1	9-A	345	ASP	CB-CG-OD1	6.62	124.26	118.30
1	16-B	126	LEU	CB-CG-CD1	6.62	122.26	111.00
1	3-B	460	ARG	NE-CZ-NH1	6.61	123.61	120.30
1	3-B	553	GLN	CA-CB-CG	6.61	127.94	113.40
1	20-B	586	ASP	CB-CG-OD2	6.61	124.25	118.30
1	6-B	549	ASP	CB-CG-OD2	6.60	124.24	118.30
1	20-A	447	ARG	NE-CZ-NH1	6.60	123.60	120.30
1	17-A	458	THR	OG1-CB-CG2	-6.59	94.85	110.00
1	11-A	296	THR	C-N-CD	6.57	142.20	128.40
1	8-A	447	ARG	NE-CZ-NH2	-6.54	117.03	120.30
1	8-A	447	ARG	NE-CZ-NH1	6.53	123.57	120.30
1	2-B	87	ARG	NE-CZ-NH2	-6.53	117.03	120.30
1	18-B	527	ASP	CB-CA-C	6.53	123.45	110.40
1	14-B	295	GLY	N-CA-C	6.52	129.41	113.10
1	17-A	72	ASP	CB-CG-OD1	6.52	124.17	118.30
1	23-A	272	ASP	CB-CG-OD1	6.51	124.16	118.30
1	12-B	527	ASP	N-CA-CB	-6.50	98.90	110.60
1	17-B	102	MET	CA-CB-CG	6.50	124.35	113.30
1	1-A	457	GLU	CB-CA-C	6.48	123.37	110.40
1	5-A	155	SER	CB-CA-C	-6.47	97.80	110.10
1	8-B	262	VAL	CB-CA-C	-6.46	99.13	111.40
1	5-A	447	ARG	NE-CZ-NH1	6.45	123.53	120.30
1	11-B	63	ASP	CB-CG-OD2	6.43	124.09	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	11-A	145	ASP	CB-CG-OD2	-6.43	112.52	118.30
1	6-B	58	VAL	CB-CA-C	-6.42	99.21	111.40
1	16-B	460	ARG	NE-CZ-NH2	-6.41	117.09	120.30
1	13-B	97	ASP	CB-CG-OD1	6.40	124.06	118.30
1	5-A	275	ASP	N-CA-C	6.39	128.25	111.00
1	24-A	447	ARG	NE-CZ-NH2	-6.39	117.11	120.30
1	9-A	180	ARG	NE-CZ-NH2	-6.38	117.11	120.30
1	9-B	457	GLU	OE1-CD-OE2	-6.37	115.66	123.30
1	23-A	296	THR	C-N-CD	-6.37	106.60	120.60
1	16-B	61	GLY	N-CA-C	6.36	129.00	113.10
1	4-B	312	PRO	N-CA-C	6.36	128.63	112.10
1	2-A	447	ARG	NE-CZ-NH2	-6.35	117.13	120.30
1	4-A	447	ARG	NE-CZ-NH1	6.35	123.47	120.30
1	17-B	97	ASP	CB-CG-OD1	-6.34	112.59	118.30
1	22-A	251	GLU	CB-CA-C	-6.32	97.77	110.40
1	17-A	447	ARG	NE-CZ-NH2	-6.31	117.14	120.30
1	17-B	97	ASP	CB-CG-OD2	6.31	123.98	118.30
1	5-A	490	SER	CB-CA-C	-6.30	98.13	110.10
1	7-A	312	PRO	N-CA-C	6.30	128.48	112.10
1	23-B	460	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	15-B	324	ASP	CB-CG-OD1	6.29	123.96	118.30
1	10-A	294	ASN	N-CA-C	-6.28	94.04	111.00
1	5-B	296	THR	C-N-CD	-6.28	106.79	120.60
1	14-A	447	ARG	NE-CZ-NH2	-6.26	117.17	120.30
1	14-A	87	ARG	NE-CZ-NH1	-6.25	117.17	120.30
1	14-A	525	LYS	CD-CE-NZ	6.25	126.08	111.70
1	2-A	298	GLU	OE1-CD-OE2	-6.25	115.81	123.30
1	19-A	270	TYR	CB-CG-CD2	-6.23	117.26	121.00
1	22-B	145	ASP	CB-CG-OD2	6.23	123.91	118.30
1	13-B	270	TYR	CB-CG-CD2	-6.22	117.27	121.00
1	16-A	295	GLY	N-CA-C	-6.21	97.58	113.10
1	12-B	339	ASP	CB-CG-OD1	6.21	123.89	118.30
1	19-A	273	GLY	N-CA-C	-6.20	97.59	113.10
1	10-B	272	ASP	CB-CG-OD2	6.20	123.88	118.30
1	19-B	275	ASP	CB-CG-OD1	6.20	123.88	118.30
1	13-A	447	ARG	NE-CZ-NH2	-6.18	117.21	120.30
1	5-A	274	ASP	N-CA-C	-6.18	94.31	111.00
1	14-A	110	ASP	CB-CG-OD1	-6.17	112.74	118.30
1	17-A	447	ARG	NE-CZ-NH1	6.17	123.39	120.30
1	11-B	273	GLY	N-CA-C	-6.17	97.67	113.10
1	20-B	87	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	5-A	296	THR	C-N-CD	-6.14	107.09	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	11-B	457	GLU	CB-CA-C	-6.14	98.11	110.40
1	3-B	75	THR	N-CA-C	-6.14	94.42	111.00
1	13-B	460	ARG	NE-CZ-NH2	-6.13	117.23	120.30
1	20-A	447	ARG	NE-CZ-NH2	-6.13	117.23	120.30
1	7-A	145	ASP	CB-CG-OD1	6.11	123.80	118.30
1	21-A	447	ARG	NE-CZ-NH2	-6.11	117.25	120.30
1	18-B	208	ASP	CB-CG-OD2	6.09	123.78	118.30
1	25-A	447	ARG	NE-CZ-NH2	-6.09	117.25	120.30
1	15-B	242	GLU	OE1-CD-OE2	6.09	130.61	123.30
1	6-A	180	ARG	NE-CZ-NH1	6.09	123.34	120.30
1	7-A	274	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	16-A	447	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	23-A	284	ARG	NE-CZ-NH1	6.06	123.33	120.30
1	18-A	462	ASP	CB-CG-OD1	6.06	123.76	118.30
1	8-B	460	ARG	NE-CZ-NH1	6.06	123.33	120.30
1	11-B	527	ASP	CB-CG-OD1	6.04	123.74	118.30
1	18-A	447	ARG	NE-CZ-NH1	6.04	123.32	120.30
1	8-B	447	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	18-B	288	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	19-A	270	TYR	CB-CG-CD1	6.03	124.62	121.00
1	8-B	565	LYS	CD-CE-NZ	6.03	125.57	111.70
1	13-B	270	TYR	CB-CG-CD1	6.03	124.62	121.00
1	23-A	447	ARG	NE-CZ-NH2	-6.02	117.29	120.30
1	1-A	391	GLU	OE1-CD-OE2	6.02	130.52	123.30
1	10-A	447	ARG	NE-CZ-NH1	6.01	123.31	120.30
1	17-A	126	LEU	CA-CB-CG	6.01	129.12	115.30
1	14-B	294	ASN	N-CA-C	6.01	127.23	111.00
1	21-A	127	ASN	CB-CA-C	-6.00	98.39	110.40
1	15-A	305	ASP	CB-CG-OD2	6.00	123.70	118.30
1	8-B	505	TYR	CB-CG-CD2	-6.00	117.40	121.00
1	5-A	525	LYS	CD-CE-NZ	-5.99	97.92	111.70
1	15-A	460	ARG	NE-CZ-NH1	-5.99	117.30	120.30
1	22-A	311	LYS	CD-CE-NZ	5.99	125.48	111.70
1	18-A	169	ARG	NE-CZ-NH2	-5.99	117.31	120.30
1	17-A	458	THR	N-CA-CB	5.97	121.65	110.30
1	14-A	447	ARG	NE-CZ-NH1	5.97	123.29	120.30
1	24-A	87	ARG	NE-CZ-NH2	5.97	123.28	120.30
1	4-B	272	ASP	CB-CG-OD1	5.97	123.67	118.30
1	14-A	339	ASP	CB-CG-OD2	5.97	123.67	118.30
1	22-A	447	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	3-A	447	ARG	NE-CZ-NH2	-5.95	117.33	120.30
1	24-B	460	ARG	CD-NE-CZ	5.95	131.93	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	16-A	292	TRP	N-CA-C	-5.94	94.95	111.00
1	10-B	399	ASP	CB-CG-OD2	-5.93	112.97	118.30
1	24-A	528	ASP	CB-CG-OD1	-5.92	112.97	118.30
1	5-B	242	GLU	OE1-CD-OE2	-5.92	116.19	123.30
1	8-B	77	ASP	CB-CA-C	5.92	122.24	110.40
1	13-A	346	ARG	NE-CZ-NH1	-5.91	117.34	120.30
1	1-B	77	ASP	CB-CG-OD2	5.91	123.62	118.30
1	25-A	339	ASP	CB-CG-OD2	5.91	123.62	118.30
1	7-A	274	ASP	CB-CG-OD1	5.91	123.62	118.30
1	19-A	296	THR	C-N-CD	-5.90	107.62	120.60
1	22-A	346	ARG	NE-CZ-NH2	5.90	123.25	120.30
1	8-B	505	TYR	CB-CG-CD1	5.89	124.53	121.00
1	18-B	169	ARG	NE-CZ-NH1	5.89	123.25	120.30
1	19-B	180	ARG	CG-CD-NE	5.88	124.16	111.80
1	1-A	184	LYS	CD-CE-NZ	5.87	125.19	111.70
1	16-B	77	ASP	CB-CA-C	5.86	122.12	110.40
1	8-B	605	PRO	N-CA-C	5.84	127.30	112.10
1	21-A	75	THR	N-CA-CB	5.84	121.39	110.30
1	5-B	460	ARG	NE-CZ-NH2	5.83	123.22	120.30
1	12-A	399	ASP	CB-CG-OD1	5.83	123.55	118.30
1	2-A	97	ASP	CB-CG-OD1	-5.83	113.06	118.30
1	10-A	275	ASP	N-CA-C	5.83	126.73	111.00
1	22-B	211	VAL	N-CA-C	-5.82	95.28	111.00
1	5-B	426	LYS	CD-CE-NZ	-5.82	98.32	111.70
1	6-A	447	ARG	NE-CZ-NH2	-5.81	117.39	120.30
1	6-B	126	LEU	N-CA-CB	5.81	122.01	110.40
1	5-A	271	LEU	CB-CG-CD2	5.80	120.87	111.00
1	9-B	447	ARG	NE-CZ-NH2	-5.80	117.40	120.30
1	7-A	145	ASP	CB-CA-C	5.80	121.99	110.40
1	8-A	87	ARG	NE-CZ-NH2	-5.79	117.40	120.30
1	14-B	126	LEU	CA-CB-CG	5.79	128.62	115.30
1	12-B	372	ASP	CB-CG-OD1	-5.79	113.09	118.30
1	16-B	88	LYS	CD-CE-NZ	5.79	125.01	111.70
1	18-B	447	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	22-B	402	SER	N-CA-C	5.78	126.60	111.00
1	10-A	517	ASP	N-CA-CB	-5.77	100.21	110.60
1	5-B	462	ASP	CB-CG-OD1	-5.77	113.11	118.30
1	18-A	63	ASP	CB-CG-OD1	5.77	123.49	118.30
1	2-B	296	THR	N-CA-C	5.77	126.57	111.00
1	8-B	294	ASN	N-CA-C	5.76	126.56	111.00
1	5-B	97	ASP	OD1-CG-OD2	5.76	134.24	123.30
1	14-A	180	ARG	NE-CZ-NH2	-5.75	117.42	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	13-B	296	THR	N-CA-C	-5.75	95.48	111.00
1	3-B	126	LEU	CB-CG-CD1	5.75	120.77	111.00
1	8-A	72	ASP	CB-CG-OD2	5.75	123.47	118.30
1	19-A	126	LEU	CB-CG-CD2	5.75	120.77	111.00
1	1-A	399	ASP	CB-CG-OD1	5.74	123.47	118.30
1	15-B	400	GLY	N-CA-C	-5.74	98.75	113.10
1	13-A	300	GLU	N-CA-C	5.73	126.47	111.00
1	15-B	362	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	18-A	87	ARG	NE-CZ-NH1	-5.73	117.44	120.30
1	15-A	272	ASP	CB-CG-OD1	-5.72	113.15	118.30
1	20-A	460	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	25-B	180	ARG	NE-CZ-NH2	5.71	123.16	120.30
1	19-A	346	ARG	NE-CZ-NH2	5.71	123.15	120.30
1	9-A	368	LEU	CB-CG-CD1	-5.70	101.31	111.00
1	21-A	251	GLU	C-N-CD	-5.69	108.09	120.60
1	2-B	292	TRP	N-CA-C	5.67	126.32	111.00
1	22-B	374	ASP	CB-CG-OD1	5.67	123.41	118.30
1	5-B	516	GLY	N-CA-C	-5.67	98.93	113.10
1	21-A	447	ARG	NE-CZ-NH1	5.67	123.13	120.30
1	1-B	377	LYS	CD-CE-NZ	-5.67	98.67	111.70
1	14-B	449	ASP	CB-CG-OD1	-5.66	113.20	118.30
1	17-A	97	ASP	CB-CG-OD1	5.66	123.40	118.30
1	4-A	275	ASP	CB-CG-OD1	-5.66	113.21	118.30
1	9-A	180	ARG	NE-CZ-NH1	5.66	123.13	120.30
1	5-A	324	ASP	CB-CA-C	5.66	121.72	110.40
1	15-B	129	ASP	CB-CG-OD2	-5.65	113.21	118.30
1	1-A	586	ASP	CB-CG-OD1	-5.64	113.22	118.30
1	19-A	447	ARG	NE-CZ-NH1	5.63	123.12	120.30
1	5-B	126	LEU	CB-CG-CD1	5.63	120.57	111.00
1	22-A	87	ARG	NE-CZ-NH2	5.62	123.11	120.30
1	19-A	276	TYR	CB-CG-CD1	5.62	124.37	121.00
1	4-A	126	LEU	CB-CG-CD1	5.62	120.55	111.00
1	9-B	274	ASP	CB-CG-OD2	-5.62	113.25	118.30
1	16-A	604	PHE	N-CA-C	-5.61	95.85	111.00
1	6-B	296	THR	CB-CA-C	-5.61	96.46	111.60
1	2-B	525	LYS	CD-CE-NZ	5.60	124.58	111.70
1	9-A	345	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	6-A	399	ASP	OD1-CG-OD2	-5.59	112.68	123.30
1	22-B	305	ASP	CB-CA-C	5.58	121.57	110.40
1	24-B	169	ARG	NE-CZ-NH1	-5.58	117.51	120.30
1	23-A	59	VAL	CB-CA-C	-5.58	100.80	111.40
1	1-B	345	ASP	CA-C-N	-5.57	104.94	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	22-A	180	ARG	NE-CZ-NH2	-5.57	117.52	120.30
1	10-B	275	ASP	CB-CG-OD1	5.57	123.31	118.30
1	18-A	169	ARG	NE-CZ-NH1	5.57	123.08	120.30
1	11-B	285	THR	CB-CA-C	-5.56	96.58	111.60
1	20-A	528	ASP	CB-CG-OD1	5.56	123.30	118.30
1	22-A	447	ARG	NE-CZ-NH1	5.56	123.08	120.30
1	22-B	399	ASP	CB-CG-OD2	5.56	123.30	118.30
1	2-A	447	ARG	NE-CZ-NH1	5.56	123.08	120.30
1	12-A	265	GLU	OE1-CD-OE2	5.56	129.97	123.30
1	12-A	284	ARG	NE-CZ-NH2	5.55	123.08	120.30
1	10-A	276	TYR	N-CA-CB	5.55	120.58	110.60
1	2-B	519	LYS	CA-CB-CG	5.54	125.60	113.40
1	10-A	460	ARG	CD-NE-CZ	5.54	131.36	123.60
1	23-A	447	ARG	NE-CZ-NH1	5.54	123.07	120.30
1	12-A	89	GLN	CB-CG-CD	-5.53	97.21	111.60
1	7-A	460	ARG	NE-CZ-NH1	-5.53	117.53	120.30
1	24-B	208	ASP	CB-CG-OD2	5.53	123.28	118.30
1	16-B	339	ASP	CB-CG-OD2	5.51	123.26	118.30
1	22-A	527	ASP	CB-CG-OD1	-5.51	113.34	118.30
1	19-A	141	ALA	C-N-CA	-5.50	110.74	122.30
1	16-A	587	ILE	CB-CA-C	-5.50	100.60	111.60
1	13-B	97	ASP	CB-CG-OD2	-5.49	113.36	118.30
1	16-A	72	ASP	CB-CG-OD1	-5.49	113.36	118.30
1	18-A	399	ASP	CB-CG-OD2	5.49	123.24	118.30
1	14-A	460	ARG	CD-NE-CZ	5.49	131.29	123.60
1	22-B	343	GLU	CB-CA-C	5.49	121.38	110.40
1	2-A	299	GLY	N-CA-C	-5.49	99.39	113.10
1	6-B	374	ASP	CB-CG-OD1	5.49	123.24	118.30
1	19-B	274	ASP	CB-CG-OD1	5.49	123.24	118.30
1	10-B	288	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	20-B	272	ASP	N-CA-C	-5.48	96.20	111.00
1	19-B	447	ARG	NE-CZ-NH1	5.48	123.04	120.30
1	6-A	447	ARG	NE-CZ-NH1	5.48	123.04	120.30
1	15-A	97	ASP	N-CA-C	5.46	125.75	111.00
1	17-A	324	ASP	CB-CG-OD2	-5.46	113.38	118.30
1	19-A	295	GLY	N-CA-C	5.46	126.76	113.10
1	12-B	63	ASP	CB-CG-OD1	-5.46	113.39	118.30
1	14-A	126	LEU	CB-CG-CD1	5.46	120.28	111.00
1	23-A	517	ASP	CB-CG-OD2	-5.46	113.39	118.30
1	13-A	140	ASP	CB-CG-OD2	-5.45	113.40	118.30
1	3-A	72	ASP	CB-CG-OD1	5.44	123.20	118.30
1	13-A	305	ASP	CB-CG-OD1	-5.44	113.41	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	12-A	266	LYS	CD-CE-NZ	5.43	124.20	111.70
1	13-A	460	ARG	NE-CZ-NH1	-5.43	117.58	120.30
1	21-B	276	TYR	CB-CG-CD2	-5.43	117.74	121.00
1	7-A	129	ASP	CB-CG-OD1	-5.43	113.42	118.30
1	12-A	284	ARG	CG-CD-NE	5.43	123.19	111.80
1	12-A	447	ARG	NE-CZ-NH1	5.42	123.01	120.30
1	22-A	586	ASP	CB-CG-OD2	5.42	123.18	118.30
1	21-A	460	ARG	NE-CZ-NH1	5.42	123.01	120.30
1	17-B	345	ASP	CA-C-N	-5.41	105.29	117.20
1	19-B	545	ASN	N-CA-C	-5.40	96.41	111.00
1	20-B	384	ASP	CB-CG-OD1	-5.40	113.44	118.30
1	17-B	509	ASP	CB-CG-OD1	5.40	123.16	118.30
1	7-A	61	GLY	C-N-CA	5.40	133.63	122.30
1	17-A	326	GLY	N-CA-C	5.40	126.59	113.10
1	4-A	597	ILE	CB-CA-C	-5.39	100.81	111.60
1	2-B	447	ARG	NE-CZ-NH2	-5.39	117.60	120.30
1	7-B	374	ASP	CB-CG-OD1	5.39	123.15	118.30
1	14-A	586	ASP	CB-CG-OD2	5.38	123.14	118.30
1	25-B	275	ASP	CB-CA-C	5.37	121.15	110.40
1	1-A	447	ARG	NE-CZ-NH1	5.37	122.98	120.30
1	18-A	63	ASP	CB-CG-OD2	-5.36	113.47	118.30
1	6-B	102	MET	CB-CG-SD	5.36	128.48	112.40
1	11-A	433	VAL	CG1-CB-CG2	5.36	119.47	110.90
1	7-B	460	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	14-B	368	LEU	CA-CB-CG	5.35	127.61	115.30
1	18-B	509	ASP	CB-CG-OD1	5.35	123.12	118.30
1	13-B	589	ASP	CB-CG-OD1	5.35	123.11	118.30
1	19-A	470	ASP	CB-CG-OD2	5.35	123.11	118.30
1	13-B	345	ASP	CB-CG-OD2	5.35	123.11	118.30
1	19-B	545	ASN	N-CA-CB	5.34	120.22	110.60
1	17-B	180	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	18-A	605	PRO	N-CA-C	5.34	125.98	112.10
1	3-A	302	LEU	CA-CB-CG	5.34	127.57	115.30
1	22-B	314	ALA	N-CA-C	5.34	125.41	111.00
1	23-A	384	ASP	CB-CG-OD1	5.33	123.10	118.30
1	22-A	597	ILE	CB-CA-C	-5.33	100.93	111.60
1	5-A	194	TYR	CB-CG-CD1	-5.33	117.80	121.00
1	17-A	89	GLN	N-CA-C	5.33	125.39	111.00
1	24-A	447	ARG	NE-CZ-NH1	5.33	122.96	120.30
1	13-B	447	ARG	NE-CZ-NH2	-5.32	117.64	120.30
1	10-B	447	ARG	NE-CZ-NH2	-5.32	117.64	120.30
1	9-A	495	LYS	CD-CE-NZ	5.32	123.93	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-B	112	ASN	N-CA-C	-5.32	96.65	111.00
1	6-A	346	ARG	NE-CZ-NH2	-5.31	117.64	120.30
1	3-A	447	ARG	NE-CZ-NH1	5.31	122.96	120.30
1	8-B	77	ASP	CB-CG-OD1	5.31	123.08	118.30
1	9-A	457	GLU	OE1-CD-OE2	-5.30	116.94	123.30
1	15-B	509	ASP	CB-CG-OD1	5.30	123.07	118.30
1	9-B	75	THR	N-CA-C	-5.30	96.68	111.00
1	23-B	180	ARG	NE-CZ-NH1	5.30	122.95	120.30
1	12-B	180	ARG	NE-CZ-NH1	5.30	122.95	120.30
1	15-A	447	ARG	NE-CZ-NH2	-5.29	117.66	120.30
1	3-A	208	ASP	CB-CG-OD1	-5.29	113.54	118.30
1	20-A	324	ASP	CB-CG-OD2	5.28	123.05	118.30
1	19-A	270	TYR	CA-CB-CG	5.28	123.43	113.40
1	9-B	169	ARG	NE-CZ-NH1	5.28	122.94	120.30
1	4-B	447	ARG	NE-CZ-NH2	-5.26	117.67	120.30
1	15-A	180	ARG	NE-CZ-NH2	-5.26	117.67	120.30
1	22-A	398	SER	N-CA-CB	-5.26	102.61	110.50
1	1-A	83	ASP	CB-CG-OD2	5.26	123.03	118.30
1	2-B	271	LEU	CA-CB-CG	5.25	127.38	115.30
1	10-B	272	ASP	N-CA-CB	5.25	120.05	110.60
1	20-A	460	ARG	NE-CZ-NH2	-5.25	117.67	120.30
1	21-A	604	PHE	C-N-CD	-5.25	109.05	120.60
1	3-A	87	ARG	NE-CZ-NH2	5.25	122.92	120.30
1	5-A	302	LEU	CA-CB-CG	5.25	127.37	115.30
1	7-B	87	ARG	N-CA-C	5.25	125.17	111.00
1	2-A	169	ARG	NE-CZ-NH2	-5.24	117.68	120.30
1	19-A	87	ARG	NE-CZ-NH1	-5.24	117.68	120.30
1	14-B	75	THR	CB-CA-C	-5.24	97.46	111.60
1	1-B	145	ASP	CB-CG-OD1	5.23	123.00	118.30
1	12-B	440	ILE	CB-CA-C	5.23	122.05	111.60
1	21-B	447	ARG	NE-CZ-NH2	-5.23	117.69	120.30
1	25-A	404	ASP	N-CA-C	5.23	125.11	111.00
1	6-A	292	TRP	N-CA-C	5.22	125.09	111.00
1	18-B	526	VAL	C-N-CA	-5.22	108.66	121.70
1	5-B	169	ARG	NE-CZ-NH2	5.21	122.91	120.30
1	24-A	402	SER	N-CA-C	5.21	125.06	111.00
1	23-B	492	GLU	OE1-CD-OE2	5.20	129.54	123.30
1	21-B	130	ASP	CB-CG-OD1	5.20	122.98	118.30
1	20-B	305	ASP	CB-CA-C	5.20	120.80	110.40
1	22-A	169	ARG	CG-CD-NE	5.20	122.72	111.80
1	13-B	145	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	24-A	72	ASP	CB-CG-OD2	5.18	122.97	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	102	MET	CG-SD-CE	-5.18	91.91	100.20
1	10-B	180	ARG	CD-NE-CZ	5.18	130.85	123.60
1	21-B	298	GLU	CA-CB-CG	5.18	124.79	113.40
1	9-A	460	ARG	NE-CZ-NH2	5.18	122.89	120.30
1	5-B	207	ILE	CG1-CB-CG2	-5.17	100.02	111.40
1	16-B	87	ARG	NE-CZ-NH2	-5.17	117.71	120.30
1	3-B	374	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	22-A	527	ASP	CB-CG-OD2	5.17	122.95	118.30
1	11-A	63	ASP	CB-CG-OD1	-5.16	113.65	118.30
1	4-A	296	THR	C-N-CA	5.16	143.68	122.00
1	13-A	275	ASP	CB-CG-OD2	-5.16	113.65	118.30
1	10-A	180	ARG	CD-NE-CZ	5.16	130.82	123.60
1	5-B	460	ARG	NE-CZ-NH1	-5.16	117.72	120.30
1	12-A	284	ARG	CD-NE-CZ	-5.16	116.38	123.60
1	20-B	145	ASP	CB-CG-OD2	5.16	122.94	118.30
1	16-B	460	ARG	CG-CD-NE	-5.15	100.98	111.80
1	13-B	354	LEU	CB-CG-CD2	-5.15	102.24	111.00
1	2-A	417	VAL	CG1-CB-CG2	-5.15	102.66	110.90
1	2-B	377	LYS	CB-CA-C	-5.14	100.11	110.40
1	24-A	284	ARG	CG-CD-NE	5.14	122.60	111.80
1	5-A	527	ASP	CB-CG-OD2	5.14	122.93	118.30
1	18-A	184	LYS	N-CA-C	-5.14	97.13	111.00
1	15-A	543	TYR	CB-CG-CD1	-5.13	117.92	121.00
1	25-A	305	ASP	CB-CA-C	5.13	120.66	110.40
1	21-A	59	VAL	CB-CA-C	-5.13	101.65	111.40
1	23-B	180	ARG	NE-CZ-NH2	-5.13	117.73	120.30
1	6-B	526	VAL	C-N-CA	-5.13	108.88	121.70
1	15-B	273	GLY	N-CA-C	-5.13	100.28	113.10
1	8-A	272	ASP	CB-CA-C	5.13	120.65	110.40
1	13-B	169	ARG	NE-CZ-NH1	5.13	122.86	120.30
1	15-A	447	ARG	NE-CZ-NH1	5.13	122.86	120.30
1	18-B	169	ARG	NE-CZ-NH2	-5.13	117.74	120.30
1	9-A	97	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	20-B	447	ARG	NE-CZ-NH2	-5.12	117.74	120.30
1	7-B	169	ARG	NE-CZ-NH2	-5.12	117.74	120.30
1	15-B	516	GLY	N-CA-C	-5.12	100.30	113.10
1	24-B	447	ARG	NE-CZ-NH2	-5.12	117.74	120.30
1	10-B	78	ILE	CB-CA-C	-5.12	101.37	111.60
1	14-A	457	GLU	OE1-CD-OE2	-5.11	117.16	123.30
1	24-B	275	ASP	CB-CG-OD1	5.11	122.90	118.30
1	25-A	433	VAL	CB-CA-C	5.11	121.11	111.40
1	2-B	145	ASP	CB-CG-OD1	-5.11	113.70	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	11-A	284	ARG	NE-CZ-NH2	5.11	122.85	120.30
1	12-B	460	ARG	CG-CD-NE	5.11	122.52	111.80
1	20-B	439	ILE	CG1-CB-CG2	-5.11	100.17	111.40
1	21-B	295	GLY	N-CA-C	5.10	125.86	113.10
1	25-B	130	ASP	CB-CG-OD1	5.10	122.89	118.30
1	24-A	297	PRO	N-CA-C	5.09	125.35	112.10
1	15-B	102	MET	CB-CA-C	5.09	120.58	110.40
1	5-B	102	MET	CA-CB-CG	5.09	121.95	113.30
1	17-B	447	ARG	NE-CZ-NH2	-5.09	117.75	120.30
1	15-A	136	ASP	CB-CG-OD1	5.09	122.88	118.30
1	5-A	324	ASP	CB-CG-OD1	5.08	122.88	118.30
1	20-A	324	ASP	CB-CG-OD1	-5.08	113.72	118.30
1	17-B	531	THR	CB-CA-C	-5.08	97.88	111.60
1	14-A	180	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	4-A	274	ASP	CB-CG-OD2	-5.08	113.73	118.30
1	25-A	272	ASP	CB-CG-OD1	5.08	122.87	118.30
1	11-B	460	ARG	NE-CZ-NH2	-5.08	117.76	120.30
1	25-A	126	LEU	CB-CG-CD1	5.08	119.63	111.00
1	10-B	110	ASP	CB-CG-OD2	5.07	122.86	118.30
1	25-B	374	ASP	CB-CG-OD1	5.07	122.86	118.30
1	11-B	180	ARG	NE-CZ-NH2	5.07	122.83	120.30
1	13-B	126	LEU	CD1-CG-CD2	-5.07	95.30	110.50
1	20-B	374	ASP	CB-CG-OD2	-5.07	113.74	118.30
1	6-B	514	GLN	N-CA-C	5.06	124.67	111.00
1	12-B	298	GLU	CA-C-N	-5.06	106.09	116.20
1	21-B	180	ARG	CG-CD-NE	-5.06	101.18	111.80
1	4-A	264	ARG	NE-CZ-NH2	-5.05	117.77	120.30
1	15-B	447	ARG	NE-CZ-NH2	-5.05	117.77	120.30
1	21-A	271	LEU	CA-CB-CG	-5.05	103.67	115.30
1	25-A	59	VAL	C-N-CA	-5.05	111.68	122.30
1	18-A	528	ASP	N-CA-C	5.05	124.63	111.00
1	23-A	368	LEU	CB-CG-CD2	5.05	119.59	111.00
1	22-B	110	ASP	CB-CG-OD2	5.05	122.84	118.30
1	8-B	232	GLY	N-CA-C	5.05	125.72	113.10
1	12-B	297	PRO	N-CA-C	5.04	125.22	112.10
1	15-B	283	LYS	CA-CB-CG	5.04	124.50	113.40
1	23-B	266	LYS	CD-CE-NZ	-5.04	100.10	111.70
1	6-A	169	ARG	NE-CZ-NH1	5.04	122.82	120.30
1	12-B	399	ASP	CB-CG-OD2	5.04	122.83	118.30
1	11-B	274	ASP	N-CA-C	5.03	124.59	111.00
1	6-B	527	ASP	N-CA-CB	5.03	119.65	110.60
1	3-B	271	LEU	CA-CB-CG	5.02	126.85	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9-B	102	MET	CG-SD-CE	-5.02	92.16	100.20
1	1-A	587	ILE	CB-CA-C	5.02	121.64	111.60
1	21-A	87	ARG	NE-CZ-NH1	-5.02	117.79	120.30
1	6-B	399	ASP	CB-CG-OD1	5.02	122.81	118.30
1	19-A	305	ASP	CB-CG-OD1	5.02	122.81	118.30
1	25-B	447	ARG	NE-CZ-NH2	-5.02	117.79	120.30
1	15-A	63	ASP	CB-CG-OD2	5.01	122.81	118.30
1	13-A	447	ARG	NE-CZ-NH1	5.01	122.81	120.30
1	3-A	99	TYR	CB-CA-C	-5.01	100.38	110.40
1	23-B	73	PRO	N-CA-C	-5.01	99.07	112.10
1	7-B	447	ARG	NE-CZ-NH2	-5.01	117.80	120.30
1	24-A	275	ASP	N-CA-CB	5.01	119.62	110.60
1	4-B	257	LEU	CA-CB-CG	5.01	126.81	115.30
1	17-A	180	ARG	NE-CZ-NH2	5.01	122.80	120.30
1	6-B	125	GLY	N-CA-C	5.00	125.61	113.10
1	22-B	274	ASP	N-CA-C	5.00	124.51	111.00
1	10-B	515	ASN	CB-CA-C	5.00	120.41	110.40
1	16-B	180	ARG	NE-CZ-NH2	-5.00	117.80	120.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	17-B	345	ASP	CA

All (105) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1-A	73	PRO	Peptide
1	1-B	193	GLY	Peptide
1	1-B	292	TRP	Peptide
1	1-B	299	GLY	Peptide
1	1-B	401	ALA	Peptide
1	10-A	272	ASP	Peptide
1	10-B	271	LEU	Peptide
1	10-B	400	GLY	Peptide
1	10-B	58	VAL	Peptide
1	10-B	76	PRO	Peptide
1	11-A	296	THR	Peptide
1	12-A	273	GLY	Peptide
1	12-A	604	PHE	Peptide
1	12-B	297	PRO	Peptide
1	12-B	316	ALA	Peptide

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	13-A	144	PHE	Peptide
1	13-A	297	PRO	Peptide
1	13-A	299	GLY	Peptide
1	13-A	300	GLU	Peptide
1	13-B	604	PHE	Peptide
1	14-A	604	PHE	Peptide
1	14-B	296	THR	Peptide
1	14-B	298	GLU	Peptide
1	14-B	313	GLY	Peptide
1	14-B	59	VAL	Peptide
1	14-B	62	GLY	Peptide
1	15-A	273	GLY	Peptide
1	15-B	293	GLY	Peptide
1	15-B	316	ALA	Peptide
1	16-A	296	THR	Peptide
1	16-A	313	GLY	Peptide
1	16-B	295	GLY	Peptide
1	16-B	76	PRO	Peptide
1	17-A	293	GLY	Peptide
1	17-A	294	ASN	Peptide
1	17-A	400	GLY	Peptide
1	17-A	57	GLU	Peptide
1	17-B	296	THR	Peptide
1	18-A	295	GLY	Peptide
1	18-B	125	GLY	Peptide
1	18-B	312	PRO	Peptide
1	19-A	142	GLY	Peptide
1	19-B	274	ASP	Peptide
1	19-B	294	ASN	Peptide
1	19-B	312	PRO	Peptide
1	2-A	273	GLY	Peptide
1	2-A	296	THR	Peptide
1	2-A	400	GLY	Peptide
1	2-B	291	SER	Peptide
1	2-B	62	GLY	Peptide
1	20-A	545	ASN	Peptide
1	20-B	295	GLY	Peptide
1	20-B	401	ALA	Peptide
1	21-A	292	TRP	Peptide
1	21-B	294	ASN	Peptide
1	21-B	296	THR	Peptide
1	21-B	63	ASP	Peptide

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	22-A	273	GLY	Peptide
1	22-A	297	PRO	Peptide
1	22-A	298	GLU	Peptide
1	22-A	57	GLU	Peptide
1	22-B	399	ASP	Peptide
1	23-A	127	ASN	Peptide
1	23-A	292	TRP	Peptide
1	23-A	401	ALA	Peptide
1	23-B	292	TRP	Peptide
1	23-B	399	ASP	Peptide
1	23-B	401	ALA	Peptide
1	24-A	125	GLY	Peptide
1	24-A	57	GLU	Peptide
1	24-B	271	LEU	Peptide
1	24-B	401	ALA	Peptide
1	25-A	144	PHE	Peptide
1	25-A	250	PRO	Peptide
1	25-A	295	GLY	Peptide
1	25-A	403	GLY	Peptide
1	25-B	125	GLY	Peptide
1	25-B	275	ASP	Peptide
1	3-A	295	GLY	Peptide
1	3-B	95	GLY	Peptide
1	3-B	96	THR	Peptide
1	4-A	293	GLY	Peptide
1	4-A	296	THR	Peptide
1	4-B	313	GLY	Peptide
1	5-A	273	GLY	Peptide
1	5-A	58	VAL	Peptide
1	5-B	293	GLY	Peptide
1	6-A	232	GLY	Peptide
1	6-A	296	THR	Peptide
1	6-A	297	PRO	Peptide
1	6-A	299	GLY	Peptide
1	6-A	422	ALA	Peptide
1	6-B	301	SER	Peptide
1	7-A	273	GLY	Peptide
1	7-A	295	GLY	Peptide
1	7-A	422	ALA	Peptide
1	7-B	86	PHE	Peptide
1	8-A	271	LEU	Peptide
1	8-A	292	TRP	Peptide

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Mol	Chain	Res	Type	Group
1	8-A	58	VAL	Peptide
1	8-B	401	ALA	Peptide
1	9-A	273	GLY	Peptide
1	9-A	292	TRP	Peptide
1	9-A	604	PHE	Peptide
1	9-B	273	GLY	Peptide

## 5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1-A	4167	3907	3919	0	0
1	1-B	4158	3901	3913	0	0
1	2-A	4167	3907	3919	0	0
1	2-B	4158	3901	3913	0	0
1	3-A	4167	3907	3919	0	0
1	3-B	4158	3901	3913	0	0
1	4-A	4167	3907	3919	0	0
1	4-B	4158	3901	3913	0	0
1	5-A	4167	3907	3919	0	0
1	5-B	4158	3901	3913	0	0
1	6-A	4167	3907	3919	0	0
1	6-B	4158	3901	3913	0	0
1	7-A	4167	3907	3919	0	0
1	7-B	4158	3901	3913	0	0
1	8-A	4167	3907	3919	0	0
1	8-B	4158	3901	3913	0	0
1	9-A	4167	3907	3919	0	0
1	9-B	4158	3901	3913	0	0
1	10-A	4167	3907	3919	0	0
1	10-B	4158	3901	3913	0	0
1	11-A	4167	3907	3919	0	0
1	11-B	4158	3901	3913	0	0
1	12-A	4167	3907	3919	0	0
1	12-B	4158	3901	3913	0	0
1	13-A	4167	3907	3919	0	0
1	13-B	4158	3901	3913	0	0
1	14-A	4167	3907	3919	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	14-B	4158	3901	3913	0	0
1	15-A	4167	3907	3919	0	0
1	15-B	4158	3901	3913	0	0
1	16-A	4167	3907	3919	0	0
1	16-B	4158	3901	3913	0	0
1	17-A	4167	3907	3919	0	0
1	17-B	4158	3901	3913	0	0
1	18-A	4167	3907	3919	0	0
1	18-B	4158	3901	3913	0	0
1	19-A	4167	3907	3919	0	0
1	19-B	4158	3901	3913	0	0
1	20-A	4167	3907	3919	0	0
1	20-B	4158	3901	3913	0	0
1	21-A	4167	3907	3919	0	0
1	21-B	4158	3901	3913	0	0
1	22-A	4167	3907	3919	0	0
1	22-B	4158	3901	3913	0	0
1	23-A	4167	3907	3918	0	0
1	23-B	4158	3901	3913	0	0
1	24-A	4167	3907	3919	0	0
1	24-B	4158	3901	3913	0	0
1	25-A	4167	3907	3919	0	0
1	25-B	4158	3901	3913	0	0
2	1-C	67	0	56	0	0
2	1-E	67	0	56	0	0
2	2-C	67	0	56	0	0
2	2-E	67	0	56	0	0
2	3-C	67	0	56	0	0
2	3-E	67	0	56	0	0
2	4-C	67	0	55	0	0
2	4-E	67	0	56	0	0
2	5-C	67	0	56	0	0
2	5-E	67	0	56	0	0
2	6-C	67	0	56	0	0
2	6-E	67	0	56	0	0
2	7-C	67	0	56	0	0
2	7-E	67	0	56	0	0
2	8-C	67	0	56	0	0
2	8-E	67	0	56	0	0
2	9-C	67	0	56	0	0
2	9-E	67	0	56	0	0
2	10-C	67	0	56	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	10-E	67	0	56	0	0
2	11-C	67	0	56	0	0
2	11-E	67	0	56	0	0
2	12-C	67	0	56	0	0
2	12-E	67	0	56	0	0
2	13-C	67	0	56	0	0
2	13-E	67	0	56	0	0
2	14-C	67	0	56	0	0
2	14-E	67	0	56	0	0
2	15-C	67	0	56	0	0
2	15-E	67	0	56	0	0
2	16-C	67	0	56	0	0
2	16-E	67	0	56	0	0
2	17-C	67	0	56	0	0
2	17-E	67	0	55	0	0
2	18-C	67	0	56	0	0
2	18-E	67	0	56	0	0
2	19-C	67	0	56	0	0
2	19-E	67	0	55	0	0
2	20-C	67	0	56	0	0
2	20-E	67	0	56	0	0
2	21-C	67	0	56	0	0
2	21-E	67	0	56	0	0
2	22-C	67	0	56	0	0
2	22-E	67	0	55	0	0
2	23-C	67	0	56	0	0
2	23-E	67	0	56	0	0
2	24-C	67	0	55	0	0
2	24-E	67	0	56	0	0
2	25-C	67	0	56	0	0
2	25-E	67	0	56	0	0
3	1-D	56	0	47	0	0
3	1-F	56	0	47	0	0
3	2-D	56	0	47	0	0
3	2-F	56	0	47	0	0
3	3-D	56	0	47	0	0
3	3-F	56	0	47	0	0
3	4-D	56	0	47	0	0
3	4-F	56	0	47	0	0
3	5-D	56	0	47	0	0
3	5-F	56	0	47	0	0
3	6-D	56	0	47	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	6-F	56	0	47	0	0
3	7-D	56	0	47	0	0
3	7-F	56	0	47	0	0
3	8-D	56	0	47	0	0
3	8-F	56	0	47	0	0
3	9-D	56	0	47	0	0
3	9-F	56	0	47	0	0
3	10-D	56	0	47	0	0
3	10-F	56	0	47	0	0
3	11-D	56	0	47	0	0
3	11-F	56	0	47	0	0
3	12-D	56	0	47	0	0
3	12-F	56	0	47	0	0
3	13-D	56	0	47	0	0
3	13-F	56	0	47	0	0
3	14-D	56	0	47	0	0
3	14-F	56	0	47	0	0
3	15-D	56	0	47	0	0
3	15-F	56	0	47	0	0
3	16-D	56	0	47	0	0
3	16-F	56	0	47	0	0
3	17-D	56	0	47	0	0
3	17-F	56	0	47	0	0
3	18-D	56	0	47	0	0
3	18-F	56	0	47	0	0
3	19-D	56	0	47	0	0
3	19-F	56	0	47	0	0
3	20-D	56	0	47	0	0
3	20-F	56	0	47	0	0
3	21-D	56	0	47	0	0
3	21-F	56	0	47	0	0
3	22-D	56	0	47	0	0
3	22-F	56	0	47	0	0
3	23-D	56	0	47	0	0
3	23-F	56	0	47	0	0
3	24-D	56	0	47	0	0
3	24-F	56	0	47	0	0
3	25-D	56	0	47	0	0
3	25-F	56	0	47	0	0
4	1-A	4	6	6	0	0
4	1-B	4	6	6	0	0
4	2-A	4	6	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	2-B	4	6	6	0	0
4	3-A	4	6	6	0	0
4	3-B	4	6	6	0	0
4	4-A	4	6	6	0	0
4	4-B	4	6	6	0	0
4	5-A	4	6	6	0	0
4	5-B	4	6	6	0	0
4	6-A	4	6	6	0	0
4	6-B	4	6	6	0	0
4	7-A	4	6	6	0	0
4	7-B	4	6	6	0	0
4	8-A	4	6	6	0	0
4	8-B	4	6	6	0	0
4	9-A	4	6	6	0	0
4	9-B	4	6	6	0	0
4	10-A	4	6	6	0	0
4	10-B	4	6	6	0	0
4	11-A	4	6	6	0	0
4	11-B	4	6	6	0	0
4	12-A	4	6	6	0	0
4	12-B	4	6	6	0	0
4	13-A	4	6	6	0	0
4	13-B	4	6	6	0	0
4	14-A	4	6	6	0	0
4	14-B	4	6	6	0	0
4	15-A	4	6	6	0	0
4	15-B	4	6	6	0	0
4	16-A	4	6	6	0	0
4	16-B	4	6	6	0	0
4	17-A	4	6	6	0	0
4	17-B	4	6	6	0	0
4	18-A	4	6	6	0	0
4	18-B	4	6	6	0	0
4	19-A	4	6	6	0	0
4	19-B	4	6	6	0	0
4	20-A	4	6	6	0	0
4	20-B	4	6	6	0	0
4	21-A	4	6	6	0	0
4	21-B	4	6	6	0	0
4	22-A	4	6	6	0	0
4	22-B	4	6	6	0	0
4	23-A	4	6	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	23-B	4	6	6	0	0
4	24-A	4	6	6	0	0
4	24-B	4	6	6	0	0
4	25-A	4	6	6	0	0
4	25-B	4	6	6	0	0
5	1-A	355	0	0	0	0
5	1-B	381	0	0	0	0
5	2-A	362	0	0	0	0
5	2-B	369	0	0	0	0
5	3-A	360	0	0	0	0
5	3-B	348	0	0	0	0
5	4-A	370	0	0	0	0
5	4-B	377	0	0	0	0
5	5-A	364	0	0	0	0
5	5-B	350	0	0	0	0
5	6-A	356	0	0	0	0
5	6-B	364	0	0	0	0
5	7-A	325	0	0	0	0
5	7-B	377	0	0	0	0
5	8-A	356	0	0	0	0
5	8-B	372	0	0	0	0
5	9-A	327	0	0	0	0
5	9-B	353	0	0	0	0
5	10-A	365	0	0	0	0
5	10-B	367	0	0	0	0
5	11-A	361	0	0	0	0
5	11-B	357	0	0	0	0
5	12-A	360	0	0	0	0
5	12-B	379	0	0	0	0
5	13-A	335	0	0	0	0
5	13-B	360	0	0	0	0
5	14-A	359	0	0	0	0
5	14-B	392	0	0	0	0
5	15-A	348	0	0	0	0
5	15-B	373	0	0	0	0
5	16-A	369	0	0	0	0
5	16-B	361	0	0	0	0
5	17-A	351	0	0	0	0
5	17-B	377	0	0	0	0
5	18-A	349	0	0	0	0
5	18-B	373	0	0	0	0
5	19-A	346	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	19-B	355	0	0	0	0
5	20-A	324	0	0	0	0
5	20-B	372	0	0	0	0
5	21-A	347	0	0	0	0
5	21-B	370	0	0	0	0
5	22-A	338	0	0	0	0
5	22-B	386	0	0	0	0
5	23-A	366	0	0	0	0
5	23-B	332	0	0	0	0
5	24-A	364	0	0	0	0
5	24-B	360	0	0	0	0
5	25-A	359	0	0	0	0
5	25-B	372	0	0	0	0
All	All	232468	195500	201244	0	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). Clashscore could not be calculated for this entry.

There are no clashes within the asymmetric unit.

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	1-A	547/549 (100%)	500 (91%)	38 (7%)	9 (2%)	<b>9</b> <b>1</b>
1	1-B	546/549 (100%)	515 (94%)	28 (5%)	3 (0%)	<b>29</b> <b>12</b>
1	2-A	547/549 (100%)	509 (93%)	35 (6%)	3 (0%)	<b>29</b> <b>12</b>
1	2-B	546/549 (100%)	510 (93%)	31 (6%)	5 (1%)	<b>17</b> <b>5</b>
1	3-A	547/549 (100%)	511 (93%)	34 (6%)	2 (0%)	<b>34</b> <b>17</b>
1	3-B	546/549 (100%)	506 (93%)	34 (6%)	6 (1%)	<b>14</b> <b>3</b>
1	4-A	547/549 (100%)	505 (92%)	32 (6%)	10 (2%)	<b>8</b> <b>1</b>

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	4-B	546/549 (100%)	509 (93%)	36 (7%)	1 (0%)	47	29
1	5-A	547/549 (100%)	510 (93%)	29 (5%)	8 (2%)	10	2
1	5-B	546/549 (100%)	509 (93%)	29 (5%)	8 (2%)	10	2
1	6-A	547/549 (100%)	505 (92%)	36 (7%)	6 (1%)	14	3
1	6-B	546/549 (100%)	513 (94%)	27 (5%)	6 (1%)	14	3
1	7-A	547/549 (100%)	511 (93%)	30 (6%)	6 (1%)	14	3
1	7-B	546/549 (100%)	511 (94%)	29 (5%)	6 (1%)	14	3
1	8-A	547/549 (100%)	511 (93%)	29 (5%)	7 (1%)	12	2
1	8-B	546/549 (100%)	510 (93%)	28 (5%)	8 (2%)	10	2
1	9-A	547/549 (100%)	507 (93%)	32 (6%)	8 (2%)	10	2
1	9-B	546/549 (100%)	511 (94%)	32 (6%)	3 (0%)	29	12
1	10-A	547/549 (100%)	507 (93%)	34 (6%)	6 (1%)	14	3
1	10-B	546/549 (100%)	504 (92%)	31 (6%)	11 (2%)	7	1
1	11-A	547/549 (100%)	514 (94%)	33 (6%)	0	100	100
1	11-B	546/549 (100%)	507 (93%)	35 (6%)	4 (1%)	22	8
1	12-A	547/549 (100%)	509 (93%)	30 (6%)	8 (2%)	10	2
1	12-B	546/549 (100%)	507 (93%)	31 (6%)	8 (2%)	10	2
1	13-A	547/549 (100%)	510 (93%)	30 (6%)	7 (1%)	12	2
1	13-B	546/549 (100%)	506 (93%)	34 (6%)	6 (1%)	14	3
1	14-A	547/549 (100%)	509 (93%)	28 (5%)	10 (2%)	8	1
1	14-B	546/549 (100%)	504 (92%)	29 (5%)	13 (2%)	6	1
1	15-A	547/549 (100%)	510 (93%)	28 (5%)	9 (2%)	9	1
1	15-B	546/549 (100%)	506 (93%)	33 (6%)	7 (1%)	12	2
1	16-A	547/549 (100%)	514 (94%)	27 (5%)	6 (1%)	14	3
1	16-B	546/549 (100%)	511 (94%)	28 (5%)	7 (1%)	12	2
1	17-A	547/549 (100%)	505 (92%)	29 (5%)	13 (2%)	6	1
1	17-B	546/549 (100%)	509 (93%)	28 (5%)	9 (2%)	9	1
1	18-A	547/549 (100%)	507 (93%)	34 (6%)	6 (1%)	14	3
1	18-B	546/549 (100%)	509 (93%)	33 (6%)	4 (1%)	22	8
1	19-A	547/549 (100%)	505 (92%)	34 (6%)	8 (2%)	10	2
1	19-B	546/549 (100%)	506 (93%)	32 (6%)	8 (2%)	10	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	20-A	547/549 (100%)	515 (94%)	26 (5%)	6 (1%)	14	3
1	20-B	546/549 (100%)	506 (93%)	33 (6%)	7 (1%)	12	2
1	21-A	547/549 (100%)	508 (93%)	30 (6%)	9 (2%)	9	1
1	21-B	546/549 (100%)	514 (94%)	26 (5%)	6 (1%)	14	3
1	22-A	547/549 (100%)	510 (93%)	34 (6%)	3 (0%)	29	12
1	22-B	546/549 (100%)	501 (92%)	33 (6%)	12 (2%)	6	1
1	23-A	547/549 (100%)	496 (91%)	37 (7%)	14 (3%)	5	0
1	23-B	546/549 (100%)	510 (93%)	29 (5%)	7 (1%)	12	2
1	24-A	547/549 (100%)	504 (92%)	34 (6%)	9 (2%)	9	1
1	24-B	546/549 (100%)	514 (94%)	27 (5%)	5 (1%)	17	5
1	25-A	547/549 (100%)	501 (92%)	36 (7%)	10 (2%)	8	1
1	25-B	546/549 (100%)	508 (93%)	32 (6%)	6 (1%)	14	3
All	All	27325/27450 (100%)	25409 (93%)	1567 (6%)	349 (1%)	12	2

All (349) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1-A	58	VAL
1	1-A	59	VAL
1	1-A	61	GLY
1	1-A	63	ASP
1	1-A	75	THR
1	1-A	399	ASP
1	2-A	58	VAL
1	3-A	296	THR
1	3-B	314	ALA
1	3-B	315	THR
1	4-A	294	ASN
1	4-A	296	THR
1	4-A	297	PRO
1	4-A	298	GLU
1	4-A	300	GLU
1	5-A	297	PRO
1	5-B	145	ASP
1	5-B	294	ASN
1	5-B	295	GLY
1	5-B	296	THR
1	5-B	297	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	5-B	518	ILE
1	6-A	63	ASP
1	6-A	233	VAL
1	6-A	296	THR
1	6-A	423	GLY
1	6-B	296	THR
1	6-B	515	ASN
1	7-A	294	ASN
1	7-A	312	PRO
1	7-A	316	ALA
1	7-A	423	GLY
1	7-B	59	VAL
1	7-B	86	PHE
1	7-B	87	ARG
1	8-A	59	VAL
1	8-A	295	GLY
1	8-A	297	PRO
1	8-A	298	GLU
1	8-B	272	ASP
1	8-B	294	ASN
1	8-B	295	GLY
1	9-A	293	GLY
1	9-A	296	THR
1	9-A	297	PRO
1	10-A	145	ASP
1	10-A	294	ASN
1	10-A	296	THR
1	10-B	73	PRO
1	10-B	74	SER
1	10-B	75	THR
1	10-B	77	ASP
1	10-B	273	GLY
1	11-B	296	THR
1	12-A	275	ASP
1	12-A	295	GLY
1	12-B	297	PRO
1	12-B	298	GLU
1	13-A	233	VAL
1	13-A	296	THR
1	13-A	297	PRO
1	13-A	298	GLU
1	13-B	292	TRP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	14-A	145	ASP
1	14-A	589	ASP
1	14-B	59	VAL
1	14-B	233	VAL
1	14-B	272	ASP
1	14-B	312	PRO
1	14-B	313	GLY
1	15-A	296	THR
1	15-A	297	PRO
1	15-B	59	VAL
1	15-B	77	ASP
1	15-B	401	ALA
1	16-A	296	THR
1	16-A	297	PRO
1	16-B	77	ASP
1	16-B	78	ILE
1	17-A	59	VAL
1	17-A	88	LYS
1	17-A	89	GLN
1	17-A	296	THR
1	17-B	294	ASN
1	17-B	296	THR
1	17-B	297	PRO
1	18-A	145	ASP
1	18-A	297	PRO
1	18-B	312	PRO
1	18-B	314	ALA
1	19-A	58	VAL
1	19-A	77	ASP
1	19-A	296	THR
1	19-A	297	PRO
1	19-B	294	ASN
1	19-B	546	VAL
1	20-A	59	VAL
1	20-B	276	TYR
1	20-B	518	ILE
1	21-A	58	VAL
1	21-A	59	VAL
1	21-A	272	ASP
1	21-A	293	GLY
1	21-A	295	GLY
1	21-B	297	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	22-A	59	VAL
1	22-A	294	ASN
1	22-A	512	ALA
1	22-B	126	LEU
1	22-B	274	ASP
1	22-B	294	ASN
1	22-B	402	SER
1	23-A	58	VAL
1	23-A	59	VAL
1	23-A	297	PRO
1	23-A	300	GLU
1	23-A	301	SER
1	24-A	58	VAL
1	24-A	74	SER
1	24-A	126	LEU
1	24-A	298	GLU
1	24-B	294	ASN
1	25-A	58	VAL
1	25-A	145	ASP
1	25-A	274	ASP
1	25-A	296	THR
1	25-A	323	VAL
1	2-A	512	ALA
1	2-B	272	ASP
1	2-B	596	THR
1	3-A	295	GLY
1	4-A	142	GLY
1	4-A	293	GLY
1	4-A	325	GLN
1	5-A	296	THR
1	6-B	126	LEU
1	8-A	293	GLY
1	8-B	233	VAL
1	9-A	276	TYR
1	9-B	74	SER
1	10-A	59	VAL
1	10-B	195	GLY
1	10-B	380	GLY
1	11-B	145	ASP
1	12-A	283	LYS
1	12-B	77	ASP
1	12-B	317	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	13-A	145	ASP
1	13-B	145	ASP
1	13-B	195	GLY
1	14-A	273	GLY
1	14-A	295	GLY
1	14-A	512	ALA
1	14-B	195	GLY
1	14-B	273	GLY
1	14-B	304	LEU
1	14-B	315	THR
1	14-B	575	GLY
1	15-A	401	ALA
1	15-B	293	GLY
1	15-B	399	ASP
1	16-B	110	ASP
1	17-A	111	ILE
1	17-A	286	ASN
1	17-B	63	ASP
1	17-B	298	GLU
1	18-A	294	ASN
1	19-B	142	GLY
1	19-B	399	ASP
1	20-A	273	GLY
1	20-B	273	GLY
1	21-A	271	LEU
1	21-B	293	GLY
1	22-B	211	VAL
1	22-B	315	THR
1	22-B	401	ALA
1	22-B	516	GLY
1	23-A	61	GLY
1	23-A	312	PRO
1	23-A	399	ASP
1	23-B	211	VAL
1	23-B	229	TRP
1	23-B	402	SER
1	24-A	529	SER
1	24-B	297	PRO
1	25-A	142	GLY
1	25-A	298	GLU
1	1-A	313	GLY
1	1-B	298	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2-B	276	TYR
1	3-B	275	ASP
1	4-A	295	GLY
1	5-A	294	ASN
1	6-B	516	GLY
1	7-A	295	GLY
1	7-B	298	GLU
1	11-B	314	ALA
1	12-A	274	ASP
1	13-A	275	ASP
1	13-B	298	GLU
1	14-A	296	THR
1	15-A	286	ASN
1	16-B	294	ASN
1	17-A	283	LYS
1	17-A	324	ASP
1	17-B	273	GLY
1	19-A	60	GLY
1	20-A	275	ASP
1	21-A	87	ARG
1	22-B	145	ASP
1	22-B	210	GLU
1	22-B	314	ALA
1	23-A	273	GLY
1	23-B	74	SER
1	24-B	90	GLU
1	24-B	401	ALA
1	2-B	61	GLY
1	3-B	281	PRO
1	4-A	442	HIS
1	5-A	314	ALA
1	5-B	258	GLU
1	7-A	60	GLY
1	8-B	274	ASP
1	9-B	314	ALA
1	10-A	516	GLY
1	10-B	400	GLY
1	10-B	512	ALA
1	12-B	312	PRO
1	14-B	180	ARG
1	15-B	126	LEU
1	16-B	297	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	17-A	325	GLN
1	17-B	295	GLY
1	18-B	127	ASN
1	19-A	286	ASN
1	19-B	145	ASP
1	20-A	74	SER
1	20-B	142	GLY
1	21-A	294	ASN
1	21-B	401	ALA
1	21-B	509	ASP
1	23-A	302	LEU
1	23-A	529	SER
1	25-B	126	LEU
1	25-B	273	GLY
1	25-B	274	ASP
1	1-A	312	PRO
1	1-B	214	TYR
1	1-B	498	PHE
1	3-B	97	ASP
1	5-A	312	PRO
1	7-B	312	PRO
1	8-A	528	ASP
1	8-B	498	PHE
1	9-A	261	PRO
1	9-A	292	TRP
1	10-B	498	PHE
1	11-B	498	PHE
1	12-A	442	HIS
1	12-B	498	PHE
1	13-A	498	PHE
1	13-B	312	PRO
1	13-B	498	PHE
1	14-A	130	ASP
1	14-A	403	GLY
1	14-B	498	PHE
1	15-A	294	ASN
1	16-A	248	SER
1	16-A	305	ASP
1	16-A	442	HIS
1	17-A	316	ALA
1	17-A	442	HIS
1	17-B	253	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	17-B	498	PHE
1	18-B	316	ALA
1	19-A	313	GLY
1	20-A	498	PHE
1	20-B	296	THR
1	20-B	498	PHE
1	21-B	498	PHE
1	22-B	498	PHE
1	23-B	498	PHE
1	24-A	125	GLY
1	25-A	127	ASN
1	25-B	498	PHE
1	1-A	60	GLY
1	2-B	498	PHE
1	3-B	498	PHE
1	4-B	498	PHE
1	5-B	498	PHE
1	6-A	312	PRO
1	6-B	498	PHE
1	8-A	498	PHE
1	8-B	314	ALA
1	9-A	498	PHE
1	9-B	498	PHE
1	10-A	312	PRO
1	12-A	498	PHE
1	14-A	312	PRO
1	14-A	498	PHE
1	14-B	296	THR
1	15-A	273	GLY
1	15-A	498	PHE
1	15-B	498	PHE
1	16-A	498	PHE
1	16-B	296	THR
1	16-B	498	PHE
1	18-A	223	ASP
1	19-A	442	HIS
1	19-B	498	PHE
1	20-B	401	ALA
1	21-A	498	PHE
1	23-A	498	PHE
1	23-B	253	PRO
1	24-B	498	PHE

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Mol	Chain	Res	Type
1	25-A	498	PHE
1	6-B	312	PRO
1	7-B	233	VAL
1	10-B	72	ASP
1	17-A	323	VAL
1	17-A	516	GLY
1	23-A	516	GLY
1	24-A	297	PRO
1	25-B	195	GLY
1	5-A	59	VAL
1	8-B	261	PRO
1	12-A	273	GLY
1	15-A	233	VAL
1	19-B	273	GLY
1	21-B	296	THR
1	24-A	273	GLY
1	25-A	313	GLY
1	25-B	261	PRO
1	2-A	513	ILE
1	5-A	273	GLY
1	12-A	233	VAL
1	12-B	516	GLY
1	18-A	295	GLY
1	18-A	516	GLY
1	5-A	58	VAL
1	6-A	61	GLY
1	9-A	273	GLY
1	15-A	516	GLY
1	20-A	261	PRO
1	23-A	299	GLY
1	12-B	253	PRO
1	19-B	261	PRO
1	23-B	195	GLY
1	24-A	296	THR

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.



Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1-A	436/436 (100%)	407 (93%)	29 (7%)	16	3
1	1-B	435/436 (100%)	404 (93%)	31 (7%)	14	2
1	2-A	436/436 (100%)	409 (94%)	27 (6%)	18	4
1	2-B	435/436 (100%)	401 (92%)	34 (8%)	12	2
1	3-A	436/436 (100%)	413 (95%)	23 (5%)	22	5
1	3-B	435/436 (100%)	401 (92%)	34 (8%)	12	2
1	4-A	436/436 (100%)	401 (92%)	35 (8%)	12	1
1	4-B	435/436 (100%)	402 (92%)	33 (8%)	13	2
1	5-A	436/436 (100%)	397 (91%)	39 (9%)	9	1
1	5-B	435/436 (100%)	405 (93%)	30 (7%)	15	2
1	6-A	436/436 (100%)	402 (92%)	34 (8%)	12	2
1	6-B	435/436 (100%)	405 (93%)	30 (7%)	15	2
1	7-A	436/436 (100%)	411 (94%)	25 (6%)	20	5
1	7-B	435/436 (100%)	407 (94%)	28 (6%)	17	3
1	8-A	436/436 (100%)	411 (94%)	25 (6%)	20	5
1	8-B	435/436 (100%)	400 (92%)	35 (8%)	12	1
1	9-A	436/436 (100%)	405 (93%)	31 (7%)	14	2
1	9-B	435/436 (100%)	412 (95%)	23 (5%)	22	5
1	10-A	436/436 (100%)	407 (93%)	29 (7%)	16	3
1	10-B	435/436 (100%)	409 (94%)	26 (6%)	19	4
1	11-A	436/436 (100%)	411 (94%)	25 (6%)	20	5
1	11-B	435/436 (100%)	406 (93%)	29 (7%)	16	3
1	12-A	436/436 (100%)	405 (93%)	31 (7%)	14	2
1	12-B	435/436 (100%)	411 (94%)	24 (6%)	21	5
1	13-A	436/436 (100%)	403 (92%)	33 (8%)	13	2
1	13-B	435/436 (100%)	410 (94%)	25 (6%)	20	5
1	14-A	436/436 (100%)	404 (93%)	32 (7%)	14	2
1	14-B	435/436 (100%)	403 (93%)	32 (7%)	13	2
1	15-A	436/436 (100%)	403 (92%)	33 (8%)	13	2
1	15-B	435/436 (100%)	406 (93%)	29 (7%)	16	3
1	16-A	436/436 (100%)	404 (93%)	32 (7%)	14	2
1	16-B	435/436 (100%)	405 (93%)	30 (7%)	15	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	17-A	436/436 (100%)	400 (92%)	36 (8%)	11	1
1	17-B	435/436 (100%)	403 (93%)	32 (7%)	13	2
1	18-A	436/436 (100%)	405 (93%)	31 (7%)	14	2
1	18-B	435/436 (100%)	415 (95%)	20 (5%)	27	8
1	19-A	436/436 (100%)	412 (94%)	24 (6%)	21	5
1	19-B	435/436 (100%)	409 (94%)	26 (6%)	19	4
1	20-A	436/436 (100%)	411 (94%)	25 (6%)	20	5
1	20-B	435/436 (100%)	401 (92%)	34 (8%)	12	2
1	21-A	436/436 (100%)	406 (93%)	30 (7%)	15	2
1	21-B	435/436 (100%)	407 (94%)	28 (6%)	17	3
1	22-A	436/436 (100%)	400 (92%)	36 (8%)	11	1
1	22-B	435/436 (100%)	400 (92%)	35 (8%)	12	1
1	23-A	436/436 (100%)	402 (92%)	34 (8%)	12	2
1	23-B	435/436 (100%)	398 (92%)	37 (8%)	10	1
1	24-A	436/436 (100%)	406 (93%)	30 (7%)	15	2
1	24-B	435/436 (100%)	407 (94%)	28 (6%)	17	3
1	25-A	436/436 (100%)	402 (92%)	34 (8%)	12	2
1	25-B	435/436 (100%)	406 (93%)	29 (7%)	16	3
All	All	21775/21800 (100%)	20270 (93%)	1505 (7%)	15	2

All (1505) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1-A	104	LYS
1	1-A	126	LEU
1	1-A	136	ASP
1	1-A	145	ASP
1	1-A	236	MET
1	1-A	257	LEU
1	1-A	263	SER
1	1-A	266	LYS
1	1-A	280	VAL
1	1-A	283	LYS
1	1-A	296	THR
1	1-A	300	GLU
1	1-A	304	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1-A	305	ASP
1	1-A	311	LYS
1	1-A	317	GLU
1	1-A	320	ASN
1	1-A	323	VAL
1	1-A	324	ASP
1	1-A	325	GLN
1	1-A	348	ASN
1	1-A	356	LEU
1	1-A	368	LEU
1	1-A	402	SER
1	1-A	454	VAL
1	1-A	528	ASP
1	1-A	570	LEU
1	1-A	603	SER
1	1-A	604	PHE
1	1-B	58	VAL
1	1-B	69	LEU
1	1-B	72	ASP
1	1-B	77	ASP
1	1-B	102	MET
1	1-B	110	ASP
1	1-B	111	ILE
1	1-B	112	ASN
1	1-B	126	LEU
1	1-B	165	ASN
1	1-B	180	ARG
1	1-B	194	TYR
1	1-B	236	MET
1	1-B	251	GLU
1	1-B	266	LYS
1	1-B	279	PHE
1	1-B	300	GLU
1	1-B	305	ASP
1	1-B	317	GLU
1	1-B	325	GLN
1	1-B	336	TYR
1	1-B	340	GLN
1	1-B	368	LEU
1	1-B	377	LYS
1	1-B	517	ASP
1	1-B	528	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1-B	565	LYS
1	1-B	570	LEU
1	1-B	589	ASP
1	1-B	596	THR
1	1-B	597	ILE
1	2-A	69	LEU
1	2-A	72	ASP
1	2-A	74	SER
1	2-A	82	VAL
1	2-A	97	ASP
1	2-A	99	TYR
1	2-A	109	ASN
1	2-A	111	ILE
1	2-A	126	LEU
1	2-A	144	PHE
1	2-A	236	MET
1	2-A	284	ARG
1	2-A	285	THR
1	2-A	296	THR
1	2-A	298	GLU
1	2-A	301	SER
1	2-A	305	ASP
1	2-A	306	GLN
1	2-A	323	VAL
1	2-A	343	GLU
1	2-A	402	SER
1	2-A	417	VAL
1	2-A	565	LYS
1	2-A	570	LEU
1	2-A	577	LYS
1	2-A	586	ASP
1	2-A	600	GLN
1	2-B	64	LEU
1	2-B	69	LEU
1	2-B	72	ASP
1	2-B	75	THR
1	2-B	87	ARG
1	2-B	127	ASN
1	2-B	136	ASP
1	2-B	164	VAL
1	2-B	165	ASN
1	2-B	236	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2-B	258	GLU
1	2-B	271	LEU
1	2-B	294	ASN
1	2-B	296	THR
1	2-B	298	GLU
1	2-B	300	GLU
1	2-B	301	SER
1	2-B	302	LEU
1	2-B	305	ASP
1	2-B	312	PRO
1	2-B	340	GLN
1	2-B	343	GLU
1	2-B	356	LEU
1	2-B	368	LEU
1	2-B	377	LYS
1	2-B	404	ASP
1	2-B	432	VAL
1	2-B	460	ARG
1	2-B	506	ASP
1	2-B	532	THR
1	2-B	545	ASN
1	2-B	560	VAL
1	2-B	570	LEU
1	2-B	597	ILE
1	3-A	63	ASP
1	3-A	64	LEU
1	3-A	72	ASP
1	3-A	99	TYR
1	3-A	136	ASP
1	3-A	144	PHE
1	3-A	157	GLU
1	3-A	180	ARG
1	3-A	236	MET
1	3-A	274	ASP
1	3-A	276	TYR
1	3-A	296	THR
1	3-A	302	LEU
1	3-A	339	ASP
1	3-A	345	ASP
1	3-A	402	SER
1	3-A	437	ASP
1	3-A	517	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	3-A	527	ASP
1	3-A	569	LEU
1	3-A	577	LYS
1	3-A	603	SER
1	3-A	604	PHE
1	3-B	59	VAL
1	3-B	63	ASP
1	3-B	75	THR
1	3-B	79	GLN
1	3-B	84	GLU
1	3-B	92	ASN
1	3-B	96	THR
1	3-B	107	THR
1	3-B	111	ILE
1	3-B	145	ASP
1	3-B	165	ASN
1	3-B	169	ARG
1	3-B	180	ARG
1	3-B	236	MET
1	3-B	275	ASP
1	3-B	283	LYS
1	3-B	294	ASN
1	3-B	296	THR
1	3-B	310	VAL
1	3-B	339	ASP
1	3-B	340	GLN
1	3-B	368	LEU
1	3-B	449	ASP
1	3-B	452	GLU
1	3-B	457	GLU
1	3-B	528	ASP
1	3-B	541	TYR
1	3-B	545	ASN
1	3-B	560	VAL
1	3-B	570	LEU
1	3-B	586	ASP
1	3-B	595	THR
1	3-B	596	THR
1	3-B	602	VAL
1	4-A	57	GLU
1	4-A	69	LEU
1	4-A	72	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	4-A	79	GLN
1	4-A	83	ASP
1	4-A	84	GLU
1	4-A	111	ILE
1	4-A	236	MET
1	4-A	251	GLU
1	4-A	298	GLU
1	4-A	300	GLU
1	4-A	310	VAL
1	4-A	311	LYS
1	4-A	323	VAL
1	4-A	324	ASP
1	4-A	325	GLN
1	4-A	348	ASN
1	4-A	372	ASP
1	4-A	398	SER
1	4-A	411	SER
1	4-A	433	VAL
1	4-A	440	ILE
1	4-A	452	GLU
1	4-A	460	ARG
1	4-A	468	LYS
1	4-A	490	SER
1	4-A	515	ASN
1	4-A	527	ASP
1	4-A	529	SER
1	4-A	541	TYR
1	4-A	545	ASN
1	4-A	553	GLN
1	4-A	570	LEU
1	4-A	586	ASP
1	4-A	595	THR
1	4-B	58	VAL
1	4-B	63	ASP
1	4-B	72	ASP
1	4-B	92	ASN
1	4-B	107	THR
1	4-B	118	TYR
1	4-B	126	LEU
1	4-B	157	GLU
1	4-B	165	ASN
1	4-B	236	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	4-B	257	LEU
1	4-B	258	GLU
1	4-B	274	ASP
1	4-B	283	LYS
1	4-B	296	THR
1	4-B	298	GLU
1	4-B	310	VAL
1	4-B	318	THR
1	4-B	325	GLN
1	4-B	340	GLN
1	4-B	368	LEU
1	4-B	374	ASP
1	4-B	387	PRO
1	4-B	399	ASP
1	4-B	402	SER
1	4-B	419	ILE
1	4-B	457	GLU
1	4-B	460	ARG
1	4-B	489	TRP
1	4-B	509	ASP
1	4-B	587	ILE
1	4-B	595	THR
1	4-B	596	THR
1	5-A	57	GLU
1	5-A	58	VAL
1	5-A	63	ASP
1	5-A	77	ASP
1	5-A	88	LYS
1	5-A	111	ILE
1	5-A	129	ASP
1	5-A	144	PHE
1	5-A	145	ASP
1	5-A	231	ASN
1	5-A	236	MET
1	5-A	248	SER
1	5-A	251	GLU
1	5-A	258	GLU
1	5-A	272	ASP
1	5-A	274	ASP
1	5-A	275	ASP
1	5-A	296	THR
1	5-A	297	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	5-A	300	GLU
1	5-A	302	LEU
1	5-A	312	PRO
1	5-A	317	GLU
1	5-A	324	ASP
1	5-A	343	GLU
1	5-A	345	ASP
1	5-A	348	ASN
1	5-A	372	ASP
1	5-A	404	ASP
1	5-A	434	ASN
1	5-A	492	GLU
1	5-A	514	GLN
1	5-A	515	ASN
1	5-A	527	ASP
1	5-A	547	ASN
1	5-A	553	GLN
1	5-A	557	GLN
1	5-A	570	LEU
1	5-A	599	SER
1	5-B	69	LEU
1	5-B	72	ASP
1	5-B	78	ILE
1	5-B	92	ASN
1	5-B	97	ASP
1	5-B	102	MET
1	5-B	126	LEU
1	5-B	165	ASN
1	5-B	236	MET
1	5-B	258	GLU
1	5-B	280	VAL
1	5-B	285	THR
1	5-B	296	THR
1	5-B	298	GLU
1	5-B	300	GLU
1	5-B	306	GLN
1	5-B	310	VAL
1	5-B	311	LYS
1	5-B	340	GLN
1	5-B	343	GLU
1	5-B	346	ARG
1	5-B	457	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	5-B	458	THR
1	5-B	462	ASP
1	5-B	490	SER
1	5-B	528	ASP
1	5-B	570	LEU
1	5-B	586	ASP
1	5-B	587	ILE
1	5-B	594	ASP
1	6-A	63	ASP
1	6-A	69	LEU
1	6-A	83	ASP
1	6-A	97	ASP
1	6-A	110	ASP
1	6-A	126	LEU
1	6-A	127	ASN
1	6-A	136	ASP
1	6-A	157	GLU
1	6-A	236	MET
1	6-A	257	LEU
1	6-A	272	ASP
1	6-A	274	ASP
1	6-A	277	LYS
1	6-A	283	LYS
1	6-A	285	THR
1	6-A	294	ASN
1	6-A	296	THR
1	6-A	302	LEU
1	6-A	304	LEU
1	6-A	324	ASP
1	6-A	325	GLN
1	6-A	339	ASP
1	6-A	340	GLN
1	6-A	404	ASP
1	6-A	460	ARG
1	6-A	492	GLU
1	6-A	509	ASP
1	6-A	517	ASP
1	6-A	531	THR
1	6-A	547	ASN
1	6-A	569	LEU
1	6-A	600	GLN
1	6-A	603	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6-B	63	ASP
1	6-B	71	PHE
1	6-B	77	ASP
1	6-B	92	ASN
1	6-B	107	THR
1	6-B	136	ASP
1	6-B	167	THR
1	6-B	236	MET
1	6-B	258	GLU
1	6-B	262	VAL
1	6-B	272	ASP
1	6-B	274	ASP
1	6-B	288	ARG
1	6-B	296	THR
1	6-B	300	GLU
1	6-B	303	PRO
1	6-B	311	LYS
1	6-B	317	GLU
1	6-B	340	GLN
1	6-B	345	ASP
1	6-B	404	ASP
1	6-B	528	ASP
1	6-B	529	SER
1	6-B	531	THR
1	6-B	541	TYR
1	6-B	545	ASN
1	6-B	549	ASP
1	6-B	570	LEU
1	6-B	577	LYS
1	6-B	586	ASP
1	7-A	82	VAL
1	7-A	84	GLU
1	7-A	97	ASP
1	7-A	136	ASP
1	7-A	164	VAL
1	7-A	194	TYR
1	7-A	207	ILE
1	7-A	236	MET
1	7-A	251	GLU
1	7-A	298	GLU
1	7-A	301	SER
1	7-A	306	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	7-A	312	PRO
1	7-A	343	GLU
1	7-A	356	LEU
1	7-A	368	LEU
1	7-A	412	LEU
1	7-A	433	VAL
1	7-A	460	ARG
1	7-A	495	LYS
1	7-A	517	ASP
1	7-A	532	THR
1	7-A	547	ASN
1	7-A	548	PRO
1	7-A	605	PRO
1	7-B	63	ASP
1	7-B	64	LEU
1	7-B	67	ASN
1	7-B	87	ARG
1	7-B	89	GLN
1	7-B	107	THR
1	7-B	145	ASP
1	7-B	167	THR
1	7-B	184	LYS
1	7-B	222	ARG
1	7-B	236	MET
1	7-B	251	GLU
1	7-B	283	LYS
1	7-B	308	TYR
1	7-B	324	ASP
1	7-B	325	GLN
1	7-B	341	PRO
1	7-B	368	LEU
1	7-B	404	ASP
1	7-B	452	GLU
1	7-B	454	VAL
1	7-B	488	GLN
1	7-B	489	TRP
1	7-B	517	ASP
1	7-B	528	ASP
1	7-B	529	SER
1	7-B	565	LYS
1	7-B	570	LEU
1	8-A	58	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	8-A	63	ASP
1	8-A	87	ARG
1	8-A	144	PHE
1	8-A	145	ASP
1	8-A	150	GLN
1	8-A	192	ASP
1	8-A	236	MET
1	8-A	257	LEU
1	8-A	258	GLU
1	8-A	263	SER
1	8-A	272	ASP
1	8-A	324	ASP
1	8-A	368	LEU
1	8-A	399	ASP
1	8-A	412	LEU
1	8-A	417	VAL
1	8-A	434	ASN
1	8-A	452	GLU
1	8-A	528	ASP
1	8-A	531	THR
1	8-A	532	THR
1	8-A	545	ASN
1	8-A	547	ASN
1	8-A	549	ASP
1	8-B	58	VAL
1	8-B	69	LEU
1	8-B	75	THR
1	8-B	77	ASP
1	8-B	92	ASN
1	8-B	102	MET
1	8-B	127	ASN
1	8-B	163	PRO
1	8-B	192	ASP
1	8-B	207	ILE
1	8-B	236	MET
1	8-B	251	GLU
1	8-B	257	LEU
1	8-B	258	GLU
1	8-B	261	PRO
1	8-B	262	VAL
1	8-B	270	TYR
1	8-B	271	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	8-B	274	ASP
1	8-B	275	ASP
1	8-B	283	LYS
1	8-B	294	ASN
1	8-B	305	ASP
1	8-B	310	VAL
1	8-B	317	GLU
1	8-B	318	THR
1	8-B	327	LEU
1	8-B	336	TYR
1	8-B	434	ASN
1	8-B	452	GLU
1	8-B	470	ASP
1	8-B	517	ASP
1	8-B	528	ASP
1	8-B	570	LEU
1	8-B	589	ASP
1	9-A	72	ASP
1	9-A	111	ILE
1	9-A	164	VAL
1	9-A	165	ASN
1	9-A	180	ARG
1	9-A	236	MET
1	9-A	258	GLU
1	9-A	261	PRO
1	9-A	274	ASP
1	9-A	294	ASN
1	9-A	301	SER
1	9-A	304	LEU
1	9-A	306	GLN
1	9-A	311	LYS
1	9-A	317	GLU
1	9-A	324	ASP
1	9-A	399	ASP
1	9-A	426	LYS
1	9-A	433	VAL
1	9-A	457	GLU
1	9-A	460	ARG
1	9-A	488	GLN
1	9-A	492	GLU
1	9-A	527	ASP
1	9-A	547	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	9-A	549	ASP
1	9-A	556	PHE
1	9-A	570	LEU
1	9-A	595	THR
1	9-A	600	GLN
1	9-A	605	PRO
1	9-B	74	SER
1	9-B	81	LYS
1	9-B	84	GLU
1	9-B	90	GLU
1	9-B	92	ASN
1	9-B	107	THR
1	9-B	127	ASN
1	9-B	169	ARG
1	9-B	192	ASP
1	9-B	236	MET
1	9-B	257	LEU
1	9-B	272	ASP
1	9-B	274	ASP
1	9-B	324	ASP
1	9-B	325	GLN
1	9-B	368	LEU
1	9-B	374	ASP
1	9-B	457	GLU
1	9-B	458	THR
1	9-B	492	GLU
1	9-B	515	ASN
1	9-B	570	LEU
1	9-B	596	THR
1	10-A	58	VAL
1	10-A	63	ASP
1	10-A	88	LYS
1	10-A	110	ASP
1	10-A	136	ASP
1	10-A	145	ASP
1	10-A	155	SER
1	10-A	165	ASN
1	10-A	169	ARG
1	10-A	236	MET
1	10-A	266	LYS
1	10-A	283	LYS
1	10-A	285	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	10-A	294	ASN
1	10-A	298	GLU
1	10-A	303	PRO
1	10-A	305	ASP
1	10-A	348	ASN
1	10-A	368	LEU
1	10-A	399	ASP
1	10-A	470	ASP
1	10-A	489	TRP
1	10-A	509	ASP
1	10-A	545	ASN
1	10-A	547	ASN
1	10-A	549	ASP
1	10-A	570	LEU
1	10-A	586	ASP
1	10-A	604	PHE
1	10-B	64	LEU
1	10-B	74	SER
1	10-B	77	ASP
1	10-B	78	ILE
1	10-B	83	ASP
1	10-B	91	SER
1	10-B	92	ASN
1	10-B	107	THR
1	10-B	110	ASP
1	10-B	126	LEU
1	10-B	132	THR
1	10-B	165	ASN
1	10-B	180	ARG
1	10-B	236	MET
1	10-B	262	VAL
1	10-B	301	SER
1	10-B	324	ASP
1	10-B	359	ILE
1	10-B	368	LEU
1	10-B	399	ASP
1	10-B	402	SER
1	10-B	489	TRP
1	10-B	490	SER
1	10-B	515	ASN
1	10-B	587	ILE
1	10-B	596	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	11-A	57	GLU
1	11-A	58	VAL
1	11-A	72	ASP
1	11-A	77	ASP
1	11-A	97	ASP
1	11-A	144	PHE
1	11-A	165	ASN
1	11-A	180	ARG
1	11-A	236	MET
1	11-A	262	VAL
1	11-A	272	ASP
1	11-A	274	ASP
1	11-A	280	VAL
1	11-A	296	THR
1	11-A	369	LYS
1	11-A	398	SER
1	11-A	402	SER
1	11-A	417	VAL
1	11-A	433	VAL
1	11-A	452	GLU
1	11-A	454	VAL
1	11-A	517	ASP
1	11-A	527	ASP
1	11-A	570	LEU
1	11-A	597	ILE
1	11-B	59	VAL
1	11-B	69	LEU
1	11-B	72	ASP
1	11-B	81	LYS
1	11-B	92	ASN
1	11-B	102	MET
1	11-B	110	ASP
1	11-B	127	ASN
1	11-B	132	THR
1	11-B	145	ASP
1	11-B	155	SER
1	11-B	169	ARG
1	11-B	210	GLU
1	11-B	236	MET
1	11-B	242	GLU
1	11-B	276	TYR
1	11-B	285	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	11-B	303	PRO
1	11-B	306	GLN
1	11-B	324	ASP
1	11-B	340	GLN
1	11-B	343	GLU
1	11-B	363	ASN
1	11-B	368	LEU
1	11-B	460	ARG
1	11-B	490	SER
1	11-B	528	ASP
1	11-B	529	SER
1	11-B	565	LYS
1	12-A	59	VAL
1	12-A	69	LEU
1	12-A	73	PRO
1	12-A	88	LYS
1	12-A	99	TYR
1	12-A	109	ASN
1	12-A	111	ILE
1	12-A	126	LEU
1	12-A	132	THR
1	12-A	144	PHE
1	12-A	155	SER
1	12-A	165	ASN
1	12-A	192	ASP
1	12-A	207	ILE
1	12-A	236	MET
1	12-A	248	SER
1	12-A	263	SER
1	12-A	285	THR
1	12-A	312	PRO
1	12-A	324	ASP
1	12-A	325	GLN
1	12-A	339	ASP
1	12-A	343	GLU
1	12-A	348	ASN
1	12-A	368	LEU
1	12-A	468	LYS
1	12-A	489	TRP
1	12-A	528	ASP
1	12-A	532	THR
1	12-A	553	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	12-A	565	LYS
1	12-B	71	PHE
1	12-B	74	SER
1	12-B	87	ARG
1	12-B	92	ASN
1	12-B	109	ASN
1	12-B	132	THR
1	12-B	180	ARG
1	12-B	236	MET
1	12-B	274	ASP
1	12-B	294	ASN
1	12-B	296	THR
1	12-B	305	ASP
1	12-B	324	ASP
1	12-B	339	ASP
1	12-B	340	GLN
1	12-B	343	GLU
1	12-B	348	ASN
1	12-B	368	LEU
1	12-B	440	ILE
1	12-B	460	ARG
1	12-B	489	TRP
1	12-B	553	GLN
1	12-B	565	LYS
1	12-B	570	LEU
1	13-A	57	GLU
1	13-A	67	ASN
1	13-A	87	ARG
1	13-A	97	ASP
1	13-A	126	LEU
1	13-A	127	ASN
1	13-A	136	ASP
1	13-A	145	ASP
1	13-A	165	ASN
1	13-A	222	ARG
1	13-A	236	MET
1	13-A	251	GLU
1	13-A	258	GLU
1	13-A	263	SER
1	13-A	284	ARG
1	13-A	294	ASN
1	13-A	296	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	13-A	305	ASP
1	13-A	312	PRO
1	13-A	325	GLN
1	13-A	340	GLN
1	13-A	356	LEU
1	13-A	368	LEU
1	13-A	395	GLU
1	13-A	488	GLN
1	13-A	489	TRP
1	13-A	525	LYS
1	13-A	545	ASN
1	13-A	570	LEU
1	13-A	595	THR
1	13-A	597	ILE
1	13-A	600	GLN
1	13-A	605	PRO
1	13-B	63	ASP
1	13-B	79	GLN
1	13-B	84	GLU
1	13-B	92	ASN
1	13-B	97	ASP
1	13-B	126	LEU
1	13-B	150	GLN
1	13-B	236	MET
1	13-B	258	GLU
1	13-B	270	TYR
1	13-B	285	THR
1	13-B	296	THR
1	13-B	300	GLU
1	13-B	301	SER
1	13-B	310	VAL
1	13-B	340	GLN
1	13-B	368	LEU
1	13-B	412	LEU
1	13-B	468	LYS
1	13-B	517	ASP
1	13-B	529	SER
1	13-B	531	THR
1	13-B	570	LEU
1	13-B	586	ASP
1	13-B	596	THR
1	14-A	74	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	14-A	83	ASP
1	14-A	102	MET
1	14-A	126	LEU
1	14-A	127	ASN
1	14-A	144	PHE
1	14-A	145	ASP
1	14-A	165	ASN
1	14-A	180	ARG
1	14-A	236	MET
1	14-A	272	ASP
1	14-A	274	ASP
1	14-A	284	ARG
1	14-A	294	ASN
1	14-A	298	GLU
1	14-A	300	GLU
1	14-A	301	SER
1	14-A	304	LEU
1	14-A	306	GLN
1	14-A	310	VAL
1	14-A	339	ASP
1	14-A	368	LEU
1	14-A	402	SER
1	14-A	517	ASP
1	14-A	528	ASP
1	14-A	529	SER
1	14-A	541	TYR
1	14-A	560	VAL
1	14-A	569	LEU
1	14-A	570	LEU
1	14-A	592	SER
1	14-A	597	ILE
1	14-B	63	ASP
1	14-B	64	LEU
1	14-B	75	THR
1	14-B	92	ASN
1	14-B	107	THR
1	14-B	111	ILE
1	14-B	126	LEU
1	14-B	145	ASP
1	14-B	169	ARG
1	14-B	207	ILE
1	14-B	236	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	14-B	251	GLU
1	14-B	272	ASP
1	14-B	274	ASP
1	14-B	276	TYR
1	14-B	294	ASN
1	14-B	296	THR
1	14-B	298	GLU
1	14-B	306	GLN
1	14-B	308	TYR
1	14-B	315	THR
1	14-B	317	GLU
1	14-B	343	GLU
1	14-B	345	ASP
1	14-B	348	ASN
1	14-B	368	LEU
1	14-B	402	SER
1	14-B	503	LYS
1	14-B	528	ASP
1	14-B	545	ASN
1	14-B	570	LEU
1	14-B	577	LYS
1	15-A	72	ASP
1	15-A	77	ASP
1	15-A	87	ARG
1	15-A	126	LEU
1	15-A	136	ASP
1	15-A	144	PHE
1	15-A	165	ASN
1	15-A	192	ASP
1	15-A	236	MET
1	15-A	248	SER
1	15-A	251	GLU
1	15-A	257	LEU
1	15-A	259	THR
1	15-A	263	SER
1	15-A	274	ASP
1	15-A	283	LYS
1	15-A	296	THR
1	15-A	297	PRO
1	15-A	298	GLU
1	15-A	305	ASP
1	15-A	317	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	15-A	318	THR
1	15-A	324	ASP
1	15-A	356	LEU
1	15-A	368	LEU
1	15-A	402	SER
1	15-A	404	ASP
1	15-A	515	ASN
1	15-A	525	LYS
1	15-A	557	GLN
1	15-A	570	LEU
1	15-A	599	SER
1	15-A	604	PHE
1	15-B	64	LEU
1	15-B	69	LEU
1	15-B	75	THR
1	15-B	84	GLU
1	15-B	87	ARG
1	15-B	92	ASN
1	15-B	97	ASP
1	15-B	105	PRO
1	15-B	126	LEU
1	15-B	138	THR
1	15-B	236	MET
1	15-B	266	LYS
1	15-B	274	ASP
1	15-B	304	LEU
1	15-B	310	VAL
1	15-B	311	LYS
1	15-B	312	PRO
1	15-B	317	GLU
1	15-B	340	GLN
1	15-B	343	GLU
1	15-B	369	LYS
1	15-B	404	ASP
1	15-B	488	GLN
1	15-B	490	SER
1	15-B	515	ASN
1	15-B	545	ASN
1	15-B	570	LEU
1	15-B	587	ILE
1	15-B	596	THR
1	16-A	72	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	16-A	75	THR
1	16-A	84	GLU
1	16-A	112	ASN
1	16-A	145	ASP
1	16-A	150	GLN
1	16-A	164	VAL
1	16-A	165	ASN
1	16-A	218	GLN
1	16-A	236	MET
1	16-A	271	LEU
1	16-A	283	LYS
1	16-A	310	VAL
1	16-A	311	LYS
1	16-A	312	PRO
1	16-A	317	GLU
1	16-A	325	GLN
1	16-A	372	ASP
1	16-A	399	ASP
1	16-A	402	SER
1	16-A	432	VAL
1	16-A	437	ASP
1	16-A	458	THR
1	16-A	460	ARG
1	16-A	483	ASN
1	16-A	490	SER
1	16-A	517	ASP
1	16-A	570	LEU
1	16-A	592	SER
1	16-A	595	THR
1	16-A	597	ILE
1	16-A	603	SER
1	16-B	71	PHE
1	16-B	72	ASP
1	16-B	75	THR
1	16-B	92	ASN
1	16-B	96	THR
1	16-B	107	THR
1	16-B	145	ASP
1	16-B	164	VAL
1	16-B	236	MET
1	16-B	248	SER
1	16-B	251	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	16-B	283	LYS
1	16-B	296	THR
1	16-B	318	THR
1	16-B	324	ASP
1	16-B	325	GLN
1	16-B	340	GLN
1	16-B	402	SER
1	16-B	440	ILE
1	16-B	452	GLU
1	16-B	454	VAL
1	16-B	488	GLN
1	16-B	492	GLU
1	16-B	506	ASP
1	16-B	541	TYR
1	16-B	545	ASN
1	16-B	565	LYS
1	16-B	570	LEU
1	16-B	577	LYS
1	16-B	597	ILE
1	17-A	97	ASP
1	17-A	110	ASP
1	17-A	111	ILE
1	17-A	126	LEU
1	17-A	144	PHE
1	17-A	164	VAL
1	17-A	180	ARG
1	17-A	236	MET
1	17-A	248	SER
1	17-A	262	VAL
1	17-A	270	TYR
1	17-A	275	ASP
1	17-A	285	THR
1	17-A	296	THR
1	17-A	318	THR
1	17-A	324	ASP
1	17-A	325	GLN
1	17-A	348	ASN
1	17-A	368	LEU
1	17-A	419	ILE
1	17-A	443	THR
1	17-A	454	VAL
1	17-A	458	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	17-A	462	ASP
1	17-A	486	ASP
1	17-A	489	TRP
1	17-A	509	ASP
1	17-A	517	ASP
1	17-A	528	ASP
1	17-A	538	MET
1	17-A	541	TYR
1	17-A	549	ASP
1	17-A	565	LYS
1	17-A	586	ASP
1	17-A	592	SER
1	17-A	603	SER
1	17-B	63	ASP
1	17-B	75	THR
1	17-B	76	PRO
1	17-B	77	ASP
1	17-B	84	GLU
1	17-B	92	ASN
1	17-B	126	LEU
1	17-B	136	ASP
1	17-B	206	LYS
1	17-B	236	MET
1	17-B	251	GLU
1	17-B	258	GLU
1	17-B	262	VAL
1	17-B	266	LYS
1	17-B	274	ASP
1	17-B	296	THR
1	17-B	298	GLU
1	17-B	306	GLN
1	17-B	318	THR
1	17-B	340	GLN
1	17-B	345	ASP
1	17-B	346	ARG
1	17-B	402	SER
1	17-B	489	TRP
1	17-B	508	PRO
1	17-B	528	ASP
1	17-B	541	TYR
1	17-B	545	ASN
1	17-B	557	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	17-B	570	LEU
1	17-B	586	ASP
1	17-B	595	THR
1	18-A	69	LEU
1	18-A	73	PRO
1	18-A	83	ASP
1	18-A	88	LYS
1	18-A	91	SER
1	18-A	112	ASN
1	18-A	127	ASN
1	18-A	130	ASP
1	18-A	169	ARG
1	18-A	180	ARG
1	18-A	222	ARG
1	18-A	231	ASN
1	18-A	236	MET
1	18-A	250	PRO
1	18-A	266	LYS
1	18-A	272	ASP
1	18-A	283	LYS
1	18-A	284	ARG
1	18-A	294	ASN
1	18-A	296	THR
1	18-A	300	GLU
1	18-A	306	GLN
1	18-A	356	LEU
1	18-A	387	PRO
1	18-A	412	LEU
1	18-A	529	SER
1	18-A	545	ASN
1	18-A	565	LYS
1	18-A	570	LEU
1	18-A	603	SER
1	18-A	605	PRO
1	18-B	59	VAL
1	18-B	63	ASP
1	18-B	87	ARG
1	18-B	91	SER
1	18-B	92	ASN
1	18-B	111	ILE
1	18-B	126	LEU
1	18-B	207	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	18-B	236	MET
1	18-B	258	GLU
1	18-B	266	LYS
1	18-B	274	ASP
1	18-B	302	LEU
1	18-B	306	GLN
1	18-B	312	PRO
1	18-B	318	THR
1	18-B	368	LEU
1	18-B	399	ASP
1	18-B	452	GLU
1	18-B	596	THR
1	19-A	57	GLU
1	19-A	73	PRO
1	19-A	87	ARG
1	19-A	129	ASP
1	19-A	144	PHE
1	19-A	145	ASP
1	19-A	169	ARG
1	19-A	225	SER
1	19-A	236	MET
1	19-A	270	TYR
1	19-A	285	THR
1	19-A	300	GLU
1	19-A	301	SER
1	19-A	305	ASP
1	19-A	306	GLN
1	19-A	318	THR
1	19-A	325	GLN
1	19-A	343	GLU
1	19-A	399	ASP
1	19-A	468	LYS
1	19-A	509	ASP
1	19-A	527	ASP
1	19-A	557	GLN
1	19-A	586	ASP
1	19-B	81	LYS
1	19-B	92	ASN
1	19-B	126	LEU
1	19-B	145	ASP
1	19-B	180	ARG
1	19-B	236	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	19-B	257	LEU
1	19-B	261	PRO
1	19-B	272	ASP
1	19-B	294	ASN
1	19-B	296	THR
1	19-B	301	SER
1	19-B	311	LYS
1	19-B	325	GLN
1	19-B	363	ASN
1	19-B	368	LEU
1	19-B	412	LEU
1	19-B	432	VAL
1	19-B	503	LYS
1	19-B	545	ASN
1	19-B	565	LYS
1	19-B	566	PHE
1	19-B	569	LEU
1	19-B	570	LEU
1	19-B	596	THR
1	19-B	600	GLN
1	20-A	74	SER
1	20-A	89	GLN
1	20-A	110	ASP
1	20-A	112	ASN
1	20-A	136	ASP
1	20-A	155	SER
1	20-A	236	MET
1	20-A	251	GLU
1	20-A	261	PRO
1	20-A	263	SER
1	20-A	285	THR
1	20-A	286	ASN
1	20-A	304	LEU
1	20-A	312	PRO
1	20-A	368	LEU
1	20-A	402	SER
1	20-A	488	GLN
1	20-A	493	ASN
1	20-A	527	ASP
1	20-A	532	THR
1	20-A	545	ASN
1	20-A	570	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	20-A	586	ASP
1	20-A	589	ASP
1	20-A	600	GLN
1	20-B	63	ASP
1	20-B	69	LEU
1	20-B	72	ASP
1	20-B	87	ARG
1	20-B	164	VAL
1	20-B	180	ARG
1	20-B	236	MET
1	20-B	258	GLU
1	20-B	272	ASP
1	20-B	274	ASP
1	20-B	275	ASP
1	20-B	296	THR
1	20-B	298	GLU
1	20-B	300	GLU
1	20-B	303	PRO
1	20-B	305	ASP
1	20-B	343	GLU
1	20-B	384	ASP
1	20-B	389	ASN
1	20-B	412	LEU
1	20-B	432	VAL
1	20-B	439	ILE
1	20-B	457	GLU
1	20-B	460	ARG
1	20-B	471	ASN
1	20-B	489	TRP
1	20-B	517	ASP
1	20-B	525	LYS
1	20-B	527	ASP
1	20-B	529	SER
1	20-B	545	ASN
1	20-B	553	GLN
1	20-B	570	LEU
1	20-B	586	ASP
1	21-A	57	GLU
1	21-A	59	VAL
1	21-A	72	ASP
1	21-A	75	THR
1	21-A	102	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	21-A	104	LYS
1	21-A	126	LEU
1	21-A	129	ASP
1	21-A	144	PHE
1	21-A	164	VAL
1	21-A	222	ARG
1	21-A	236	MET
1	21-A	294	ASN
1	21-A	298	GLU
1	21-A	300	GLU
1	21-A	304	LEU
1	21-A	305	ASP
1	21-A	306	GLN
1	21-A	311	LYS
1	21-A	325	GLN
1	21-A	399	ASP
1	21-A	402	SER
1	21-A	409	PRO
1	21-A	471	ASN
1	21-A	488	GLN
1	21-A	515	ASN
1	21-A	527	ASP
1	21-A	528	ASP
1	21-A	531	THR
1	21-A	577	LYS
1	21-B	63	ASP
1	21-B	72	ASP
1	21-B	91	SER
1	21-B	92	ASN
1	21-B	127	ASN
1	21-B	145	ASP
1	21-B	236	MET
1	21-B	262	VAL
1	21-B	274	ASP
1	21-B	283	LYS
1	21-B	286	ASN
1	21-B	304	LEU
1	21-B	311	LYS
1	21-B	340	GLN
1	21-B	359	ILE
1	21-B	363	ASN
1	21-B	398	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	21-B	399	ASP
1	21-B	468	LYS
1	21-B	471	ASN
1	21-B	517	ASP
1	21-B	528	ASP
1	21-B	531	THR
1	21-B	545	ASN
1	21-B	565	LYS
1	21-B	570	LEU
1	21-B	594	ASP
1	21-B	596	THR
1	22-A	58	VAL
1	22-A	63	ASP
1	22-A	72	ASP
1	22-A	82	VAL
1	22-A	96	THR
1	22-A	110	ASP
1	22-A	112	ASN
1	22-A	136	ASP
1	22-A	165	ASN
1	22-A	169	ARG
1	22-A	225	SER
1	22-A	236	MET
1	22-A	251	GLU
1	22-A	274	ASP
1	22-A	283	LYS
1	22-A	296	THR
1	22-A	297	PRO
1	22-A	300	GLU
1	22-A	305	ASP
1	22-A	317	GLU
1	22-A	368	LEU
1	22-A	384	ASP
1	22-A	398	SER
1	22-A	409	PRO
1	22-A	434	ASN
1	22-A	457	GLU
1	22-A	460	ARG
1	22-A	462	ASP
1	22-A	470	ASP
1	22-A	488	GLN
1	22-A	492	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	22-A	514	GLN
1	22-A	515	ASN
1	22-A	527	ASP
1	22-A	547	ASN
1	22-A	570	LEU
1	22-B	58	VAL
1	22-B	59	VAL
1	22-B	69	LEU
1	22-B	72	ASP
1	22-B	88	LYS
1	22-B	89	GLN
1	22-B	92	ASN
1	22-B	102	MET
1	22-B	110	ASP
1	22-B	112	ASN
1	22-B	130	ASP
1	22-B	145	ASP
1	22-B	150	GLN
1	22-B	217	GLN
1	22-B	222	ARG
1	22-B	236	MET
1	22-B	251	GLU
1	22-B	258	GLU
1	22-B	274	ASP
1	22-B	283	LYS
1	22-B	284	ARG
1	22-B	285	THR
1	22-B	294	ASN
1	22-B	304	LEU
1	22-B	305	ASP
1	22-B	312	PRO
1	22-B	345	ASP
1	22-B	492	GLU
1	22-B	517	ASP
1	22-B	531	THR
1	22-B	532	THR
1	22-B	560	VAL
1	22-B	570	LEU
1	22-B	587	ILE
1	22-B	604	PHE
1	23-A	57	GLU
1	23-A	66	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	23-A	72	ASP
1	23-A	74	SER
1	23-A	87	ARG
1	23-A	107	THR
1	23-A	112	ASN
1	23-A	126	LEU
1	23-A	136	ASP
1	23-A	150	GLN
1	23-A	165	ASN
1	23-A	207	ILE
1	23-A	236	MET
1	23-A	251	GLU
1	23-A	258	GLU
1	23-A	272	ASP
1	23-A	274	ASP
1	23-A	280	VAL
1	23-A	283	LYS
1	23-A	285	THR
1	23-A	300	GLU
1	23-A	303	PRO
1	23-A	325	GLN
1	23-A	368	LEU
1	23-A	377	LYS
1	23-A	402	SER
1	23-A	515	ASN
1	23-A	517	ASP
1	23-A	528	ASP
1	23-A	547	ASN
1	23-A	549	ASP
1	23-A	577	LYS
1	23-A	604	PHE
1	23-A	605	PRO
1	23-B	59	VAL
1	23-B	63	ASP
1	23-B	69	LEU
1	23-B	71	PHE
1	23-B	77	ASP
1	23-B	97	ASP
1	23-B	111	ILE
1	23-B	165	ASN
1	23-B	180	ARG
1	23-B	192	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	23-B	210	GLU
1	23-B	211	VAL
1	23-B	229	TRP
1	23-B	236	MET
1	23-B	248	SER
1	23-B	251	GLU
1	23-B	258	GLU
1	23-B	296	THR
1	23-B	300	GLU
1	23-B	301	SER
1	23-B	305	ASP
1	23-B	306	GLN
1	23-B	310	VAL
1	23-B	311	LYS
1	23-B	317	GLU
1	23-B	340	GLN
1	23-B	404	ASP
1	23-B	419	ILE
1	23-B	458	THR
1	23-B	489	TRP
1	23-B	492	GLU
1	23-B	528	ASP
1	23-B	532	THR
1	23-B	541	TYR
1	23-B	565	LYS
1	23-B	570	LEU
1	23-B	587	ILE
1	24-A	74	SER
1	24-A	82	VAL
1	24-A	99	TYR
1	24-A	112	ASN
1	24-A	127	ASN
1	24-A	165	ASN
1	24-A	210	GLU
1	24-A	224	SER
1	24-A	236	MET
1	24-A	251	GLU
1	24-A	262	VAL
1	24-A	272	ASP
1	24-A	275	ASP
1	24-A	283	LYS
1	24-A	284	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	24-A	296	THR
1	24-A	304	LEU
1	24-A	310	VAL
1	24-A	312	PRO
1	24-A	343	GLU
1	24-A	402	SER
1	24-A	460	ARG
1	24-A	517	ASP
1	24-A	541	TYR
1	24-A	545	ASN
1	24-A	547	ASN
1	24-A	553	GLN
1	24-A	570	LEU
1	24-A	600	GLN
1	24-A	603	SER
1	24-B	58	VAL
1	24-B	69	LEU
1	24-B	77	ASP
1	24-B	81	LYS
1	24-B	92	ASN
1	24-B	121	ILE
1	24-B	132	THR
1	24-B	144	PHE
1	24-B	165	ASN
1	24-B	169	ARG
1	24-B	236	MET
1	24-B	272	ASP
1	24-B	283	LYS
1	24-B	294	ASN
1	24-B	298	GLU
1	24-B	302	LEU
1	24-B	305	ASP
1	24-B	306	GLN
1	24-B	356	LEU
1	24-B	398	SER
1	24-B	432	VAL
1	24-B	509	ASP
1	24-B	515	ASN
1	24-B	527	ASP
1	24-B	570	LEU
1	24-B	587	ILE
1	24-B	595	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	24-B	596	THR
1	25-A	57	GLU
1	25-A	72	ASP
1	25-A	76	PRO
1	25-A	84	GLU
1	25-A	87	ARG
1	25-A	107	THR
1	25-A	111	ILE
1	25-A	112	ASN
1	25-A	114	GLN
1	25-A	165	ASN
1	25-A	192	ASP
1	25-A	207	ILE
1	25-A	236	MET
1	25-A	251	GLU
1	25-A	258	GLU
1	25-A	275	ASP
1	25-A	280	VAL
1	25-A	296	THR
1	25-A	300	GLU
1	25-A	301	SER
1	25-A	305	ASP
1	25-A	310	VAL
1	25-A	323	VAL
1	25-A	324	ASP
1	25-A	398	SER
1	25-A	433	VAL
1	25-A	483	ASN
1	25-A	527	ASP
1	25-A	528	ASP
1	25-A	532	THR
1	25-A	541	TYR
1	25-A	545	ASN
1	25-A	553	GLN
1	25-A	592	SER
1	25-B	64	LEU
1	25-B	78	ILE
1	25-B	112	ASN
1	25-B	127	ASN
1	25-B	132	THR
1	25-B	165	ASN
1	25-B	192	ASP

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Mol	Chain	Res	Type
1	25-B	211	VAL
1	25-B	236	MET
1	25-B	253	PRO
1	25-B	261	PRO
1	25-B	266	LYS
1	25-B	272	ASP
1	25-B	274	ASP
1	25-B	296	THR
1	25-B	324	ASP
1	25-B	340	GLN
1	25-B	348	ASN
1	25-B	399	ASP
1	25-B	404	ASP
1	25-B	412	LEU
1	25-B	452	GLU
1	25-B	454	VAL
1	25-B	457	GLU
1	25-B	471	ASN
1	25-B	489	TRP
1	25-B	515	ASN
1	25-B	528	ASP
1	25-B	587	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (451) such sidechains are listed below:

Mol	Chain	Res	Type
1	1-A	67	ASN
1	1-A	109	ASN
1	1-A	150	GLN
1	1-A	217	GLN
1	1-A	325	GLN
1	1-A	348	ASN
1	1-A	471	ASN
1	1-A	488	GLN
1	1-A	493	ASN
1	1-A	553	GLN
1	1-B	109	ASN
1	1-B	134	ASN
1	1-B	162	ASN
1	1-B	165	ASN
1	1-B	337	HIS
1	1-B	340	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1-B	363	ASN
1	1-B	488	GLN
1	1-B	514	GLN
1	1-B	545	ASN
1	2-A	93	GLN
1	2-A	109	ASN
1	2-A	127	ASN
1	2-A	294	ASN
1	2-A	325	GLN
1	2-A	408	ASN
1	2-A	466	HIS
1	2-A	488	GLN
1	2-A	553	GLN
1	2-A	600	GLN
1	2-B	92	ASN
1	2-B	127	ASN
1	2-B	165	ASN
1	2-B	247	GLN
1	2-B	337	HIS
1	2-B	340	GLN
1	2-B	466	HIS
1	2-B	488	GLN
1	2-B	545	ASN
1	3-A	109	ASN
1	3-A	348	ASN
1	3-A	488	GLN
1	3-A	515	ASN
1	3-A	545	ASN
1	3-A	553	GLN
1	3-A	557	GLN
1	3-B	79	GLN
1	3-B	92	ASN
1	3-B	127	ASN
1	3-B	325	GLN
1	3-B	337	HIS
1	3-B	363	ASN
1	3-B	488	GLN
1	3-B	493	ASN
1	3-B	545	ASN
1	4-A	79	GLN
1	4-A	217	GLN
1	4-A	545	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	4-B	92	ASN
1	4-B	109	ASN
1	4-B	165	ASN
1	4-B	337	HIS
1	4-B	348	ASN
1	4-B	363	ASN
1	4-B	408	ASN
1	4-B	466	HIS
1	4-B	488	GLN
1	4-B	553	GLN
1	5-A	79	GLN
1	5-A	109	ASN
1	5-A	306	GLN
1	5-A	348	ASN
1	5-A	434	ASN
1	5-A	466	HIS
1	5-A	547	ASN
1	5-A	557	GLN
1	5-A	600	GLN
1	5-B	67	ASN
1	5-B	92	ASN
1	5-B	127	ASN
1	5-B	165	ASN
1	5-B	182	HIS
1	5-B	325	GLN
1	5-B	408	ASN
1	5-B	553	GLN
1	5-B	557	GLN
1	6-A	67	ASN
1	6-A	79	GLN
1	6-A	114	GLN
1	6-A	127	ASN
1	6-A	340	GLN
1	6-A	408	ASN
1	6-A	547	ASN
1	6-A	553	GLN
1	6-B	67	ASN
1	6-B	92	ASN
1	6-B	165	ASN
1	6-B	325	GLN
1	6-B	340	GLN
1	6-B	363	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6-B	515	ASN
1	7-A	127	ASN
1	7-A	294	ASN
1	7-A	306	GLN
1	7-A	348	ASN
1	7-A	488	GLN
1	7-A	547	ASN
1	7-A	553	GLN
1	7-A	600	GLN
1	7-B	89	GLN
1	7-B	92	ASN
1	7-B	93	GLN
1	7-B	325	GLN
1	7-B	363	ASN
1	7-B	488	GLN
1	7-B	515	ASN
1	8-A	89	GLN
1	8-A	93	GLN
1	8-A	109	ASN
1	8-A	150	GLN
1	8-A	217	GLN
1	8-A	286	ASN
1	8-A	340	GLN
1	8-A	348	ASN
1	8-A	434	ASN
1	8-A	493	ASN
1	8-A	545	ASN
1	8-A	547	ASN
1	8-A	557	GLN
1	8-A	600	GLN
1	8-B	67	ASN
1	8-B	92	ASN
1	8-B	466	HIS
1	8-B	553	GLN
1	8-B	557	GLN
1	9-A	89	GLN
1	9-A	93	GLN
1	9-A	165	ASN
1	9-A	348	ASN
1	9-A	408	ASN
1	9-A	545	ASN
1	9-A	547	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	9-A	557	GLN
1	9-B	67	ASN
1	9-B	89	GLN
1	9-B	92	ASN
1	9-B	112	ASN
1	9-B	325	GLN
1	9-B	363	ASN
1	9-B	488	GLN
1	9-B	515	ASN
1	9-B	553	GLN
1	10-A	67	ASN
1	10-A	92	ASN
1	10-A	93	GLN
1	10-A	165	ASN
1	10-A	286	ASN
1	10-A	306	GLN
1	10-A	348	ASN
1	10-A	483	ASN
1	10-A	547	ASN
1	10-A	553	GLN
1	10-A	557	GLN
1	10-B	79	GLN
1	10-B	92	ASN
1	10-B	109	ASN
1	10-B	515	ASN
1	10-B	553	GLN
1	11-A	93	GLN
1	11-A	114	GLN
1	11-A	165	ASN
1	11-A	348	ASN
1	11-A	405	HIS
1	11-A	466	HIS
1	11-A	483	ASN
1	11-A	488	GLN
1	11-B	79	GLN
1	11-B	92	ASN
1	11-B	109	ASN
1	11-B	363	ASN
1	11-B	567	HIS
1	12-A	67	ASN
1	12-A	93	GLN
1	12-A	109	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	12-A	127	ASN
1	12-A	165	ASN
1	12-A	286	ASN
1	12-A	325	GLN
1	12-A	348	ASN
1	12-A	483	ASN
1	12-A	600	GLN
1	12-B	79	GLN
1	12-B	92	ASN
1	12-B	109	ASN
1	12-B	325	GLN
1	12-B	337	HIS
1	12-B	348	ASN
1	12-B	557	GLN
1	13-A	89	GLN
1	13-A	93	GLN
1	13-A	127	ASN
1	13-A	165	ASN
1	13-A	306	GLN
1	13-A	320	ASN
1	13-A	325	GLN
1	13-A	348	ASN
1	13-A	483	ASN
1	13-A	545	ASN
1	13-A	553	GLN
1	13-B	92	ASN
1	13-B	114	GLN
1	13-B	127	ASN
1	13-B	134	ASN
1	13-B	162	ASN
1	13-B	325	GLN
1	13-B	348	ASN
1	14-A	89	GLN
1	14-A	93	GLN
1	14-A	150	GLN
1	14-A	165	ASN
1	14-A	306	GLN
1	14-A	348	ASN
1	14-A	483	ASN
1	14-A	488	GLN
1	14-A	553	GLN
1	14-B	79	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	14-B	92	ASN
1	14-B	112	ASN
1	14-B	188	ASN
1	14-B	306	GLN
1	14-B	325	GLN
1	14-B	340	GLN
1	14-B	348	ASN
1	14-B	488	GLN
1	15-A	89	GLN
1	15-A	165	ASN
1	15-A	306	GLN
1	15-A	320	ASN
1	15-A	325	GLN
1	15-A	348	ASN
1	15-A	483	ASN
1	15-A	553	GLN
1	15-A	554	HIS
1	15-B	79	GLN
1	15-B	92	ASN
1	15-B	134	ASN
1	15-B	162	ASN
1	15-B	348	ASN
1	15-B	408	ASN
1	15-B	488	GLN
1	15-B	545	ASN
1	16-A	67	ASN
1	16-A	109	ASN
1	16-A	112	ASN
1	16-A	114	GLN
1	16-A	217	GLN
1	16-A	320	ASN
1	16-A	348	ASN
1	16-A	466	HIS
1	16-A	483	ASN
1	16-A	553	GLN
1	16-B	79	GLN
1	16-B	92	ASN
1	16-B	109	ASN
1	16-B	294	ASN
1	16-B	325	GLN
1	16-B	340	GLN
1	16-B	348	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	16-B	488	GLN
1	16-B	545	ASN
1	17-A	67	ASN
1	17-A	92	ASN
1	17-A	93	GLN
1	17-A	112	ASN
1	17-A	127	ASN
1	17-A	320	ASN
1	17-A	325	GLN
1	17-A	340	GLN
1	17-A	408	ASN
1	17-A	483	ASN
1	17-B	67	ASN
1	17-B	79	GLN
1	17-B	92	ASN
1	17-B	93	GLN
1	17-B	109	ASN
1	17-B	294	ASN
1	17-B	306	GLN
1	17-B	340	GLN
1	17-B	488	GLN
1	17-B	515	ASN
1	17-B	545	ASN
1	17-B	552	GLN
1	17-B	553	GLN
1	18-A	67	ASN
1	18-A	89	GLN
1	18-A	112	ASN
1	18-A	127	ASN
1	18-A	320	ASN
1	18-A	466	HIS
1	18-A	515	ASN
1	18-A	600	GLN
1	18-B	79	GLN
1	18-B	89	GLN
1	18-B	92	ASN
1	18-B	109	ASN
1	18-B	325	GLN
1	18-B	471	ASN
1	19-A	93	GLN
1	19-A	112	ASN
1	19-A	150	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	19-A	320	ASN
1	19-A	483	ASN
1	19-A	545	ASN
1	19-A	553	GLN
1	19-A	554	HIS
1	19-A	557	GLN
1	19-A	600	GLN
1	19-B	67	ASN
1	19-B	79	GLN
1	19-B	89	GLN
1	19-B	92	ASN
1	19-B	109	ASN
1	19-B	340	GLN
1	19-B	471	ASN
1	19-B	488	GLN
1	20-A	67	ASN
1	20-A	89	GLN
1	20-A	109	ASN
1	20-A	112	ASN
1	20-A	320	ASN
1	20-A	483	ASN
1	20-B	79	GLN
1	20-B	92	ASN
1	20-B	109	ASN
1	20-B	340	GLN
1	20-B	389	ASN
1	20-B	471	ASN
1	20-B	488	GLN
1	20-B	545	ASN
1	21-A	67	ASN
1	21-A	93	GLN
1	21-A	112	ASN
1	21-A	114	GLN
1	21-A	466	HIS
1	21-A	483	ASN
1	21-A	488	GLN
1	21-A	515	ASN
1	21-A	600	GLN
1	21-B	67	ASN
1	21-B	79	GLN
1	21-B	89	GLN
1	21-B	92	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	21-B	109	ASN
1	21-B	286	ASN
1	21-B	294	ASN
1	21-B	325	GLN
1	21-B	340	GLN
1	21-B	363	ASN
1	21-B	471	ASN
1	21-B	488	GLN
1	21-B	545	ASN
1	22-A	93	GLN
1	22-A	112	ASN
1	22-A	165	ASN
1	22-A	294	ASN
1	22-A	320	ASN
1	22-A	434	ASN
1	22-A	493	ASN
1	22-A	515	ASN
1	22-A	547	ASN
1	22-A	557	GLN
1	22-B	67	ASN
1	22-B	79	GLN
1	22-B	89	GLN
1	22-B	92	ASN
1	22-B	109	ASN
1	22-B	112	ASN
1	22-B	127	ASN
1	22-B	363	ASN
1	22-B	471	ASN
1	22-B	545	ASN
1	22-B	553	GLN
1	23-A	67	ASN
1	23-A	93	GLN
1	23-A	112	ASN
1	23-A	150	GLN
1	23-A	165	ASN
1	23-A	286	ASN
1	23-A	320	ASN
1	23-A	340	GLN
1	23-A	483	ASN
1	23-A	493	ASN
1	23-A	515	ASN
1	23-A	545	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	23-A	547	ASN
1	23-B	67	ASN
1	23-B	89	GLN
1	23-B	92	ASN
1	23-B	112	ASN
1	23-B	127	ASN
1	23-B	165	ASN
1	23-B	286	ASN
1	23-B	363	ASN
1	23-B	408	ASN
1	23-B	471	ASN
1	23-B	514	GLN
1	23-B	515	ASN
1	24-A	93	GLN
1	24-A	112	ASN
1	24-A	114	GLN
1	24-A	150	GLN
1	24-A	165	ASN
1	24-A	306	GLN
1	24-A	320	ASN
1	24-A	325	GLN
1	24-A	483	ASN
1	24-A	515	ASN
1	24-A	545	ASN
1	24-A	547	ASN
1	24-B	89	GLN
1	24-B	92	ASN
1	24-B	112	ASN
1	24-B	127	ASN
1	24-B	165	ASN
1	24-B	325	GLN
1	24-B	340	GLN
1	24-B	363	ASN
1	24-B	471	ASN
1	24-B	514	GLN
1	24-B	515	ASN
1	24-B	557	GLN
1	25-A	67	ASN
1	25-A	92	ASN
1	25-A	93	GLN
1	25-A	112	ASN
1	25-A	150	GLN

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Mol	Chain	Res	Type
1	25-A	320	ASN
1	25-A	340	GLN
1	25-A	483	ASN
1	25-A	493	ASN
1	25-A	514	GLN
1	25-A	545	ASN
1	25-B	89	GLN
1	25-B	112	ASN
1	25-B	165	ASN
1	25-B	363	ASN
1	25-B	471	ASN
1	25-B	488	GLN
1	25-B	514	GLN
1	25-B	515	ASN
1	25-B	557	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

### 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

### 5.5 Carbohydrates [i](#)

550 monosaccharides are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	1-C	1	2	12,12,12	1.59	3 (25%)	17,17,17	1.36	2 (11%)
2	BGC	1-C	2	2	11,11,12	1.41	3 (27%)	15,15,17	1.43	2 (13%)
2	BGC	1-C	3	2	11,11,12	1.51	3 (27%)	15,15,17	1.32	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	1-C	4	2	11,11,12	0.99	1 (9%)	15,15,17	1.69	3 (20%)
2	BGC	1-C	5	2	11,11,12	1.15	1 (9%)	15,15,17	1.44	2 (13%)
2	BGC	1-C	6	2	11,11,12	1.34	2 (18%)	15,15,17	1.37	3 (20%)
3	BGC	1-D	1	3	12,12,12	1.29	1 (8%)	17,17,17	1.08	0
3	BGC	1-D	2	3	11,11,12	1.46	1 (9%)	15,15,17	1.55	1 (6%)
3	BGC	1-D	3	3	11,11,12	1.28	1 (9%)	15,15,17	1.53	3 (20%)
3	BGC	1-D	4	3	11,11,12	1.34	2 (18%)	15,15,17	1.23	1 (6%)
3	BGC	1-D	5	3	11,11,12	1.56	1 (9%)	15,15,17	1.12	1 (6%)
2	BGC	1-E	1	2	12,12,12	1.57	3 (25%)	17,17,17	1.08	0
2	BGC	1-E	2	2	11,11,12	1.49	3 (27%)	15,15,17	1.29	2 (13%)
2	BGC	1-E	3	2	11,11,12	1.38	1 (9%)	15,15,17	1.36	2 (13%)
2	BGC	1-E	4	2	11,11,12	0.84	1 (9%)	15,15,17	1.43	2 (13%)
2	BGC	1-E	5	2	11,11,12	1.29	2 (18%)	15,15,17	2.09	2 (13%)
2	BGC	1-E	6	2	11,11,12	1.42	3 (27%)	15,15,17	1.07	1 (6%)
3	BGC	1-F	1	3	12,12,12	1.32	2 (16%)	17,17,17	1.00	1 (5%)
3	BGC	1-F	2	3	11,11,12	1.57	1 (9%)	15,15,17	1.68	3 (20%)
3	BGC	1-F	3	3	11,11,12	1.33	1 (9%)	15,15,17	2.83	3 (20%)
3	BGC	1-F	4	3	11,11,12	1.20	2 (18%)	15,15,17	0.95	1 (6%)
3	BGC	1-F	5	3	11,11,12	1.75	1 (9%)	15,15,17	0.86	0
2	BGC	10-C	1	2	12,12,12	1.65	3 (25%)	17,17,17	1.08	1 (5%)
2	BGC	10-C	2	2	11,11,12	1.37	3 (27%)	15,15,17	1.49	3 (20%)
2	BGC	10-C	3	2	11,11,12	1.37	3 (27%)	15,15,17	1.26	2 (13%)
2	BGC	10-C	4	2	11,11,12	0.89	0	15,15,17	1.16	1 (6%)
2	BGC	10-C	5	2	11,11,12	1.23	1 (9%)	15,15,17	1.58	2 (13%)
2	BGC	10-C	6	2	11,11,12	1.35	3 (27%)	15,15,17	1.04	1 (6%)
3	BGC	10-D	1	3	12,12,12	1.30	1 (8%)	17,17,17	1.21	0
3	BGC	10-D	2	3	11,11,12	1.45	1 (9%)	15,15,17	1.68	2 (13%)
3	BGC	10-D	3	3	11,11,12	1.29	2 (18%)	15,15,17	1.51	2 (13%)
3	BGC	10-D	4	3	11,11,12	1.23	2 (18%)	15,15,17	1.27	2 (13%)
3	BGC	10-D	5	3	11,11,12	1.60	1 (9%)	15,15,17	1.34	2 (13%)
2	BGC	10-E	1	2	12,12,12	1.68	3 (25%)	17,17,17	1.02	1 (5%)
2	BGC	10-E	2	2	11,11,12	1.57	3 (27%)	15,15,17	1.15	2 (13%)
2	BGC	10-E	3	2	11,11,12	1.38	2 (18%)	15,15,17	1.17	1 (6%)
2	BGC	10-E	4	2	11,11,12	0.83	1 (9%)	15,15,17	1.44	2 (13%)
2	BGC	10-E	5	2	11,11,12	1.37	3 (27%)	15,15,17	1.38	3 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	10-E	6	2	11,11,12	1.46	2 (18%)	15,15,17	2.10	4 (26%)
3	BGC	10-F	1	3	12,12,12	1.34	2 (16%)	17,17,17	1.02	0
3	BGC	10-F	2	3	11,11,12	1.58	2 (18%)	15,15,17	1.50	3 (20%)
3	BGC	10-F	3	3	11,11,12	1.09	1 (9%)	15,15,17	1.47	3 (20%)
3	BGC	10-F	4	3	11,11,12	1.43	2 (18%)	15,15,17	1.11	1 (6%)
3	BGC	10-F	5	3	11,11,12	1.63	1 (9%)	15,15,17	0.91	0
2	BGC	11-C	1	2	12,12,12	1.67	3 (25%)	17,17,17	1.04	2 (11%)
2	BGC	11-C	2	2	11,11,12	1.49	3 (27%)	15,15,17	1.82	3 (20%)
2	BGC	11-C	3	2	11,11,12	1.34	3 (27%)	15,15,17	1.27	2 (13%)
2	BGC	11-C	4	2	11,11,12	1.01	0	15,15,17	1.28	1 (6%)
2	BGC	11-C	5	2	11,11,12	1.27	1 (9%)	15,15,17	1.59	1 (6%)
2	BGC	11-C	6	2	11,11,12	1.36	2 (18%)	15,15,17	1.50	5 (33%)
3	BGC	11-D	1	3	12,12,12	1.29	1 (8%)	17,17,17	1.39	2 (11%)
3	BGC	11-D	2	3	11,11,12	1.31	1 (9%)	15,15,17	1.56	3 (20%)
3	BGC	11-D	3	3	11,11,12	1.35	1 (9%)	15,15,17	1.69	4 (26%)
3	BGC	11-D	4	3	11,11,12	1.58	2 (18%)	15,15,17	2.35	7 (46%)
3	BGC	11-D	5	3	11,11,12	1.71	1 (9%)	15,15,17	1.67	2 (13%)
2	BGC	11-E	1	2	12,12,12	1.69	3 (25%)	17,17,17	1.46	4 (23%)
2	BGC	11-E	2	2	11,11,12	1.53	3 (27%)	15,15,17	1.03	1 (6%)
2	BGC	11-E	3	2	11,11,12	1.30	1 (9%)	15,15,17	1.47	2 (13%)
2	BGC	11-E	4	2	11,11,12	0.96	1 (9%)	15,15,17	1.22	2 (13%)
2	BGC	11-E	5	2	11,11,12	1.21	1 (9%)	15,15,17	1.64	2 (13%)
2	BGC	11-E	6	2	11,11,12	1.43	3 (27%)	15,15,17	1.34	3 (20%)
3	BGC	11-F	1	3	12,12,12	1.35	2 (16%)	17,17,17	1.28	3 (17%)
3	BGC	11-F	2	3	11,11,12	1.65	2 (18%)	15,15,17	1.57	2 (13%)
3	BGC	11-F	3	3	11,11,12	1.39	2 (18%)	15,15,17	2.04	4 (26%)
3	BGC	11-F	4	3	11,11,12	1.11	1 (9%)	15,15,17	0.96	0
3	BGC	11-F	5	3	11,11,12	1.59	1 (9%)	15,15,17	0.94	1 (6%)
2	BGC	12-C	1	2	12,12,12	1.75	3 (25%)	17,17,17	1.63	5 (29%)
2	BGC	12-C	2	2	11,11,12	1.42	3 (27%)	15,15,17	1.47	3 (20%)
2	BGC	12-C	3	2	11,11,12	1.43	3 (27%)	15,15,17	1.54	4 (26%)
2	BGC	12-C	4	2	11,11,12	0.88	0	15,15,17	1.33	3 (20%)
2	BGC	12-C	5	2	11,11,12	1.33	1 (9%)	15,15,17	1.29	1 (6%)
2	BGC	12-C	6	2	11,11,12	1.45	2 (18%)	15,15,17	1.66	5 (33%)
3	BGC	12-D	1	3	12,12,12	1.33	2 (16%)	17,17,17	1.37	4 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	BGC	12-D	2	3	11,11,12	1.57	2 (18%)	15,15,17	2.07	3 (20%)
3	BGC	12-D	3	3	11,11,12	1.45	1 (9%)	15,15,17	1.59	3 (20%)
3	BGC	12-D	4	3	11,11,12	1.27	1 (9%)	15,15,17	1.32	3 (20%)
3	BGC	12-D	5	3	11,11,12	1.63	1 (9%)	15,15,17	1.30	3 (20%)
2	BGC	12-E	1	2	12,12,12	1.69	3 (25%)	17,17,17	1.32	3 (17%)
2	BGC	12-E	2	2	11,11,12	1.41	3 (27%)	15,15,17	1.26	1 (6%)
2	BGC	12-E	3	2	11,11,12	1.25	1 (9%)	15,15,17	1.33	2 (13%)
2	BGC	12-E	4	2	11,11,12	0.68	0	15,15,17	1.45	4 (26%)
2	BGC	12-E	5	2	11,11,12	1.50	3 (27%)	15,15,17	1.91	3 (20%)
2	BGC	12-E	6	2	11,11,12	1.47	2 (18%)	15,15,17	1.26	2 (13%)
3	BGC	12-F	1	3	12,12,12	1.29	2 (16%)	17,17,17	0.99	1 (5%)
3	BGC	12-F	2	3	11,11,12	1.57	2 (18%)	15,15,17	1.57	2 (13%)
3	BGC	12-F	3	3	11,11,12	1.22	1 (9%)	15,15,17	1.25	2 (13%)
3	BGC	12-F	4	3	11,11,12	1.36	2 (18%)	15,15,17	1.07	0
3	BGC	12-F	5	3	11,11,12	1.73	1 (9%)	15,15,17	0.79	1 (6%)
2	BGC	13-C	1	2	12,12,12	1.75	3 (25%)	17,17,17	1.65	2 (11%)
2	BGC	13-C	2	2	11,11,12	1.43	3 (27%)	15,15,17	1.44	3 (20%)
2	BGC	13-C	3	2	11,11,12	1.64	3 (27%)	15,15,17	1.46	2 (13%)
2	BGC	13-C	4	2	11,11,12	1.00	1 (9%)	15,15,17	1.95	4 (26%)
2	BGC	13-C	5	2	11,11,12	1.32	1 (9%)	15,15,17	1.22	2 (13%)
2	BGC	13-C	6	2	11,11,12	1.38	1 (9%)	15,15,17	2.32	5 (33%)
3	BGC	13-D	1	3	12,12,12	1.29	1 (8%)	17,17,17	1.23	1 (5%)
3	BGC	13-D	2	3	11,11,12	1.38	1 (9%)	15,15,17	1.89	3 (20%)
3	BGC	13-D	3	3	11,11,12	1.45	2 (18%)	15,15,17	1.61	4 (26%)
3	BGC	13-D	4	3	11,11,12	1.44	2 (18%)	15,15,17	2.26	3 (20%)
3	BGC	13-D	5	3	11,11,12	1.43	1 (9%)	15,15,17	2.05	6 (40%)
2	BGC	13-E	1	2	12,12,12	1.65	3 (25%)	17,17,17	1.17	3 (17%)
2	BGC	13-E	2	2	11,11,12	1.31	2 (18%)	15,15,17	1.19	1 (6%)
2	BGC	13-E	3	2	11,11,12	1.40	1 (9%)	15,15,17	1.35	3 (20%)
2	BGC	13-E	4	2	11,11,12	0.72	0	15,15,17	1.44	2 (13%)
2	BGC	13-E	5	2	11,11,12	1.18	1 (9%)	15,15,17	2.50	3 (20%)
2	BGC	13-E	6	2	11,11,12	1.43	2 (18%)	15,15,17	1.30	2 (13%)
3	BGC	13-F	1	3	12,12,12	1.33	2 (16%)	17,17,17	1.21	2 (11%)
3	BGC	13-F	2	3	11,11,12	1.51	1 (9%)	15,15,17	1.56	2 (13%)
3	BGC	13-F	3	3	11,11,12	1.32	2 (18%)	15,15,17	1.21	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	BGC	13-F	4	3	11,11,12	1.49	2 (18%)	15,15,17	1.18	1 (6%)
3	BGC	13-F	5	3	11,11,12	1.49	1 (9%)	15,15,17	1.00	1 (6%)
2	BGC	14-C	1	2	12,12,12	1.71	3 (25%)	17,17,17	1.07	2 (11%)
2	BGC	14-C	2	2	11,11,12	1.38	3 (27%)	15,15,17	1.59	3 (20%)
2	BGC	14-C	3	2	11,11,12	1.38	3 (27%)	15,15,17	1.40	1 (6%)
2	BGC	14-C	4	2	11,11,12	0.92	1 (9%)	15,15,17	1.35	2 (13%)
2	BGC	14-C	5	2	11,11,12	1.28	1 (9%)	15,15,17	1.60	3 (20%)
2	BGC	14-C	6	2	11,11,12	1.32	1 (9%)	15,15,17	1.31	2 (13%)
3	BGC	14-D	1	3	12,12,12	1.31	1 (8%)	17,17,17	1.42	3 (17%)
3	BGC	14-D	2	3	11,11,12	1.58	1 (9%)	15,15,17	1.50	3 (20%)
3	BGC	14-D	3	3	11,11,12	1.32	1 (9%)	15,15,17	1.69	4 (26%)
3	BGC	14-D	4	3	11,11,12	1.39	2 (18%)	15,15,17	1.59	3 (20%)
3	BGC	14-D	5	3	11,11,12	1.58	1 (9%)	15,15,17	1.03	1 (6%)
2	BGC	14-E	1	2	12,12,12	1.77	3 (25%)	17,17,17	1.68	2 (11%)
2	BGC	14-E	2	2	11,11,12	1.69	3 (27%)	15,15,17	1.34	2 (13%)
2	BGC	14-E	3	2	11,11,12	1.41	2 (18%)	15,15,17	1.55	3 (20%)
2	BGC	14-E	4	2	11,11,12	0.62	0	15,15,17	1.21	1 (6%)
2	BGC	14-E	5	2	11,11,12	1.33	3 (27%)	15,15,17	1.39	2 (13%)
2	BGC	14-E	6	2	11,11,12	1.49	2 (18%)	15,15,17	1.36	3 (20%)
3	BGC	14-F	1	3	12,12,12	1.33	2 (16%)	17,17,17	1.16	1 (5%)
3	BGC	14-F	2	3	11,11,12	1.65	2 (18%)	15,15,17	1.57	2 (13%)
3	BGC	14-F	3	3	11,11,12	1.32	2 (18%)	15,15,17	1.44	1 (6%)
3	BGC	14-F	4	3	11,11,12	1.24	1 (9%)	15,15,17	0.60	0
3	BGC	14-F	5	3	11,11,12	1.60	1 (9%)	15,15,17	0.83	0
2	BGC	15-C	1	2	12,12,12	1.69	3 (25%)	17,17,17	1.25	3 (17%)
2	BGC	15-C	2	2	11,11,12	1.57	3 (27%)	15,15,17	1.88	3 (20%)
2	BGC	15-C	3	2	11,11,12	1.33	2 (18%)	15,15,17	1.29	2 (13%)
2	BGC	15-C	4	2	11,11,12	0.98	1 (9%)	15,15,17	1.37	2 (13%)
2	BGC	15-C	5	2	11,11,12	1.27	1 (9%)	15,15,17	1.38	1 (6%)
2	BGC	15-C	6	2	11,11,12	1.41	2 (18%)	15,15,17	1.14	1 (6%)
3	BGC	15-D	1	3	12,12,12	1.44	2 (16%)	17,17,17	1.56	4 (23%)
3	BGC	15-D	2	3	11,11,12	1.29	1 (9%)	15,15,17	2.34	4 (26%)
3	BGC	15-D	3	3	11,11,12	1.49	2 (18%)	15,15,17	1.53	1 (6%)
3	BGC	15-D	4	3	11,11,12	1.36	2 (18%)	15,15,17	1.35	2 (13%)
3	BGC	15-D	5	3	11,11,12	1.56	1 (9%)	15,15,17	1.56	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	15-E	1	2	12,12,12	1.60	3 (25%)	17,17,17	1.71	4 (23%)
2	BGC	15-E	2	2	11,11,12	1.49	3 (27%)	15,15,17	1.43	2 (13%)
2	BGC	15-E	3	2	11,11,12	1.24	2 (18%)	15,15,17	1.49	3 (20%)
2	BGC	15-E	4	2	11,11,12	0.89	1 (9%)	15,15,17	1.42	2 (13%)
2	BGC	15-E	5	2	11,11,12	1.34	2 (18%)	15,15,17	1.89	4 (26%)
2	BGC	15-E	6	2	11,11,12	1.53	3 (27%)	15,15,17	1.35	1 (6%)
3	BGC	15-F	1	3	12,12,12	1.43	2 (16%)	17,17,17	1.06	0
3	BGC	15-F	2	3	11,11,12	1.59	2 (18%)	15,15,17	1.63	2 (13%)
3	BGC	15-F	3	3	11,11,12	1.35	1 (9%)	15,15,17	1.11	0
3	BGC	15-F	4	3	11,11,12	1.29	2 (18%)	15,15,17	1.05	0
3	BGC	15-F	5	3	11,11,12	1.64	1 (9%)	15,15,17	0.89	1 (6%)
2	BGC	16-C	1	2	12,12,12	1.66	3 (25%)	17,17,17	1.13	0
2	BGC	16-C	2	2	11,11,12	1.36	3 (27%)	15,15,17	1.35	3 (20%)
2	BGC	16-C	3	2	11,11,12	1.43	3 (27%)	15,15,17	1.18	2 (13%)
2	BGC	16-C	4	2	11,11,12	0.91	0	15,15,17	1.29	2 (13%)
2	BGC	16-C	5	2	11,11,12	1.31	1 (9%)	15,15,17	1.59	2 (13%)
2	BGC	16-C	6	2	11,11,12	1.55	2 (18%)	15,15,17	1.29	2 (13%)
3	BGC	16-D	1	3	12,12,12	1.33	1 (8%)	17,17,17	1.02	1 (5%)
3	BGC	16-D	2	3	11,11,12	1.43	1 (9%)	15,15,17	1.96	3 (20%)
3	BGC	16-D	3	3	11,11,12	1.32	2 (18%)	15,15,17	1.75	4 (26%)
3	BGC	16-D	4	3	11,11,12	1.17	1 (9%)	15,15,17	1.48	3 (20%)
3	BGC	16-D	5	3	11,11,12	1.62	1 (9%)	15,15,17	0.81	0
2	BGC	16-E	1	2	12,12,12	1.53	3 (25%)	17,17,17	1.19	2 (11%)
2	BGC	16-E	2	2	11,11,12	1.48	2 (18%)	15,15,17	1.20	2 (13%)
2	BGC	16-E	3	2	11,11,12	1.41	2 (18%)	15,15,17	1.43	2 (13%)
2	BGC	16-E	4	2	11,11,12	0.73	0	15,15,17	1.28	2 (13%)
2	BGC	16-E	5	2	11,11,12	1.45	2 (18%)	15,15,17	1.93	3 (20%)
2	BGC	16-E	6	2	11,11,12	1.51	2 (18%)	15,15,17	2.92	4 (26%)
3	BGC	16-F	1	3	12,12,12	1.27	2 (16%)	17,17,17	1.01	1 (5%)
3	BGC	16-F	2	3	11,11,12	1.57	2 (18%)	15,15,17	1.67	3 (20%)
3	BGC	16-F	3	3	11,11,12	1.32	2 (18%)	15,15,17	1.33	2 (13%)
3	BGC	16-F	4	3	11,11,12	1.19	1 (9%)	15,15,17	0.80	0
3	BGC	16-F	5	3	11,11,12	1.67	1 (9%)	15,15,17	0.79	1 (6%)
2	BGC	17-C	1	2	12,12,12	1.69	4 (33%)	17,17,17	1.42	2 (11%)
2	BGC	17-C	2	2	11,11,12	1.37	3 (27%)	15,15,17	1.51	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	17-C	3	2	11,11,12	1.46	3 (27%)	15,15,17	1.25	1 (6%)
2	BGC	17-C	4	2	11,11,12	0.86	0	15,15,17	1.38	2 (13%)
2	BGC	17-C	5	2	11,11,12	1.30	1 (9%)	15,15,17	1.48	2 (13%)
2	BGC	17-C	6	2	11,11,12	1.41	3 (27%)	15,15,17	1.43	4 (26%)
3	BGC	17-D	1	3	12,12,12	1.29	1 (8%)	17,17,17	1.54	4 (23%)
3	BGC	17-D	2	3	11,11,12	1.38	1 (9%)	15,15,17	2.00	3 (20%)
3	BGC	17-D	3	3	11,11,12	1.31	1 (9%)	15,15,17	1.26	3 (20%)
3	BGC	17-D	4	3	11,11,12	1.37	2 (18%)	15,15,17	1.22	3 (20%)
3	BGC	17-D	5	3	11,11,12	1.53	1 (9%)	15,15,17	1.05	1 (6%)
2	BGC	17-E	1	2	12,12,12	1.61	3 (25%)	17,17,17	1.35	3 (17%)
2	BGC	17-E	2	2	11,11,12	1.42	3 (27%)	15,15,17	1.33	1 (6%)
2	BGC	17-E	3	2	11,11,12	1.39	2 (18%)	15,15,17	1.34	2 (13%)
2	BGC	17-E	4	2	11,11,12	0.73	0	15,15,17	1.10	2 (13%)
2	BGC	17-E	5	2	11,11,12	1.30	2 (18%)	15,15,17	1.40	3 (20%)
2	BGC	17-E	6	2	11,11,12	1.86	3 (27%)	15,15,17	2.71	5 (33%)
3	BGC	17-F	1	3	12,12,12	1.46	3 (25%)	17,17,17	1.89	4 (23%)
3	BGC	17-F	2	3	11,11,12	1.69	1 (9%)	15,15,17	1.70	2 (13%)
3	BGC	17-F	3	3	11,11,12	1.23	1 (9%)	15,15,17	1.25	2 (13%)
3	BGC	17-F	4	3	11,11,12	1.23	2 (18%)	15,15,17	1.32	1 (6%)
3	BGC	17-F	5	3	11,11,12	1.64	1 (9%)	15,15,17	0.99	1 (6%)
2	BGC	18-C	1	2	12,12,12	1.68	3 (25%)	17,17,17	1.07	1 (5%)
2	BGC	18-C	2	2	11,11,12	1.35	3 (27%)	15,15,17	1.56	3 (20%)
2	BGC	18-C	3	2	11,11,12	1.49	3 (27%)	15,15,17	1.60	3 (20%)
2	BGC	18-C	4	2	11,11,12	0.87	0	15,15,17	1.25	2 (13%)
2	BGC	18-C	5	2	11,11,12	1.42	2 (18%)	15,15,17	1.51	1 (6%)
2	BGC	18-C	6	2	11,11,12	1.38	2 (18%)	15,15,17	1.75	5 (33%)
3	BGC	18-D	1	3	12,12,12	1.41	2 (16%)	17,17,17	1.52	5 (29%)
3	BGC	18-D	2	3	11,11,12	1.26	1 (9%)	15,15,17	2.05	4 (26%)
3	BGC	18-D	3	3	11,11,12	1.33	1 (9%)	15,15,17	1.68	2 (13%)
3	BGC	18-D	4	3	11,11,12	1.16	1 (9%)	15,15,17	1.30	2 (13%)
3	BGC	18-D	5	3	11,11,12	1.49	1 (9%)	15,15,17	1.71	5 (33%)
2	BGC	18-E	1	2	12,12,12	1.52	3 (25%)	17,17,17	1.04	0
2	BGC	18-E	2	2	11,11,12	1.47	2 (18%)	15,15,17	1.53	4 (26%)
2	BGC	18-E	3	2	11,11,12	1.34	2 (18%)	15,15,17	1.97	4 (26%)
2	BGC	18-E	4	2	11,11,12	0.76	0	15,15,17	1.41	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	18-E	5	2	11,11,12	1.26	2 (18%)	15,15,17	1.47	3 (20%)
2	BGC	18-E	6	2	11,11,12	1.36	2 (18%)	15,15,17	1.52	5 (33%)
3	BGC	18-F	1	3	12,12,12	1.36	2 (16%)	17,17,17	1.14	1 (5%)
3	BGC	18-F	2	3	11,11,12	1.70	1 (9%)	15,15,17	1.79	2 (13%)
3	BGC	18-F	3	3	11,11,12	1.22	2 (18%)	15,15,17	1.22	2 (13%)
3	BGC	18-F	4	3	11,11,12	1.36	2 (18%)	15,15,17	1.03	0
3	BGC	18-F	5	3	11,11,12	1.69	1 (9%)	15,15,17	0.93	1 (6%)
2	BGC	19-C	1	2	12,12,12	1.74	3 (25%)	17,17,17	1.81	6 (35%)
2	BGC	19-C	2	2	11,11,12	1.42	2 (18%)	15,15,17	1.92	4 (26%)
2	BGC	19-C	3	2	11,11,12	1.31	2 (18%)	15,15,17	1.22	3 (20%)
2	BGC	19-C	4	2	11,11,12	1.17	1 (9%)	15,15,17	1.65	3 (20%)
2	BGC	19-C	5	2	11,11,12	1.30	2 (18%)	15,15,17	1.54	3 (20%)
2	BGC	19-C	6	2	11,11,12	1.39	2 (18%)	15,15,17	1.22	2 (13%)
3	BGC	19-D	1	3	12,12,12	1.24	1 (8%)	17,17,17	1.17	2 (11%)
3	BGC	19-D	2	3	11,11,12	1.37	1 (9%)	15,15,17	2.41	6 (40%)
3	BGC	19-D	3	3	11,11,12	1.31	2 (18%)	15,15,17	2.11	5 (33%)
3	BGC	19-D	4	3	11,11,12	1.36	2 (18%)	15,15,17	1.26	1 (6%)
3	BGC	19-D	5	3	11,11,12	1.50	1 (9%)	15,15,17	1.32	3 (20%)
2	BGC	19-E	1	2	12,12,12	1.58	3 (25%)	17,17,17	1.05	2 (11%)
2	BGC	19-E	2	2	11,11,12	1.44	3 (27%)	15,15,17	1.51	2 (13%)
2	BGC	19-E	3	2	11,11,12	1.32	2 (18%)	15,15,17	1.33	1 (6%)
2	BGC	19-E	4	2	11,11,12	0.65	0	15,15,17	1.10	1 (6%)
2	BGC	19-E	5	2	11,11,12	1.36	3 (27%)	15,15,17	1.34	1 (6%)
2	BGC	19-E	6	2	11,11,12	1.43	3 (27%)	15,15,17	2.15	4 (26%)
3	BGC	19-F	1	3	12,12,12	1.32	1 (8%)	17,17,17	1.15	2 (11%)
3	BGC	19-F	2	3	11,11,12	1.46	1 (9%)	15,15,17	1.73	3 (20%)
3	BGC	19-F	3	3	11,11,12	1.28	1 (9%)	15,15,17	1.39	3 (20%)
3	BGC	19-F	4	3	11,11,12	1.32	2 (18%)	15,15,17	0.88	0
3	BGC	19-F	5	3	11,11,12	1.60	1 (9%)	15,15,17	0.97	2 (13%)
2	BGC	2-C	1	2	12,12,12	1.60	3 (25%)	17,17,17	0.88	0
2	BGC	2-C	2	2	11,11,12	1.30	3 (27%)	15,15,17	1.74	3 (20%)
2	BGC	2-C	3	2	11,11,12	1.35	2 (18%)	15,15,17	1.25	1 (6%)
2	BGC	2-C	4	2	11,11,12	0.80	0	15,15,17	1.61	3 (20%)
2	BGC	2-C	5	2	11,11,12	1.34	1 (9%)	15,15,17	1.53	3 (20%)
2	BGC	2-C	6	2	11,11,12	1.55	2 (18%)	15,15,17	1.58	4 (26%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	BGC	2-D	1	3	12,12,12	1.34	2 (16%)	17,17,17	1.40	2 (11%)
3	BGC	2-D	2	3	11,11,12	1.26	0	15,15,17	1.63	1 (6%)
3	BGC	2-D	3	3	11,11,12	1.33	2 (18%)	15,15,17	1.55	4 (26%)
3	BGC	2-D	4	3	11,11,12	1.32	2 (18%)	15,15,17	1.21	2 (13%)
3	BGC	2-D	5	3	11,11,12	1.66	1 (9%)	15,15,17	1.28	3 (20%)
2	BGC	2-E	1	2	12,12,12	1.64	3 (25%)	17,17,17	0.95	0
2	BGC	2-E	2	2	11,11,12	1.37	3 (27%)	15,15,17	1.51	2 (13%)
2	BGC	2-E	3	2	11,11,12	1.24	1 (9%)	15,15,17	1.25	1 (6%)
2	BGC	2-E	4	2	11,11,12	0.53	0	15,15,17	1.13	1 (6%)
2	BGC	2-E	5	2	11,11,12	1.37	2 (18%)	15,15,17	1.55	3 (20%)
2	BGC	2-E	6	2	11,11,12	1.48	2 (18%)	15,15,17	1.44	4 (26%)
3	BGC	2-F	1	3	12,12,12	1.38	2 (16%)	17,17,17	1.18	1 (5%)
3	BGC	2-F	2	3	11,11,12	1.67	1 (9%)	15,15,17	1.99	4 (26%)
3	BGC	2-F	3	3	11,11,12	1.28	1 (9%)	15,15,17	1.14	1 (6%)
3	BGC	2-F	4	3	11,11,12	1.21	2 (18%)	15,15,17	1.00	0
3	BGC	2-F	5	3	11,11,12	1.59	1 (9%)	15,15,17	0.88	1 (6%)
2	BGC	20-C	1	2	12,12,12	1.71	3 (25%)	17,17,17	1.05	1 (5%)
2	BGC	20-C	2	2	11,11,12	1.43	3 (27%)	15,15,17	1.90	3 (20%)
2	BGC	20-C	3	2	11,11,12	1.33	3 (27%)	15,15,17	1.41	1 (6%)
2	BGC	20-C	4	2	11,11,12	1.01	1 (9%)	15,15,17	1.41	2 (13%)
2	BGC	20-C	5	2	11,11,12	1.42	2 (18%)	15,15,17	1.50	2 (13%)
2	BGC	20-C	6	2	11,11,12	1.29	2 (18%)	15,15,17	1.50	3 (20%)
3	BGC	20-D	1	3	12,12,12	1.29	1 (8%)	17,17,17	1.21	2 (11%)
3	BGC	20-D	2	3	11,11,12	1.53	1 (9%)	15,15,17	1.71	2 (13%)
3	BGC	20-D	3	3	11,11,12	1.43	1 (9%)	15,15,17	1.53	3 (20%)
3	BGC	20-D	4	3	11,11,12	1.31	1 (9%)	15,15,17	0.99	0
3	BGC	20-D	5	3	11,11,12	1.57	1 (9%)	15,15,17	1.16	2 (13%)
2	BGC	20-E	1	2	12,12,12	1.65	3 (25%)	17,17,17	0.96	1 (5%)
2	BGC	20-E	2	2	11,11,12	1.47	3 (27%)	15,15,17	1.33	1 (6%)
2	BGC	20-E	3	2	11,11,12	1.31	1 (9%)	15,15,17	1.57	2 (13%)
2	BGC	20-E	4	2	11,11,12	0.60	0	15,15,17	1.29	2 (13%)
2	BGC	20-E	5	2	11,11,12	1.38	2 (18%)	15,15,17	1.52	2 (13%)
2	BGC	20-E	6	2	11,11,12	1.37	3 (27%)	15,15,17	1.09	1 (6%)
3	BGC	20-F	1	3	12,12,12	1.30	2 (16%)	17,17,17	1.14	1 (5%)
3	BGC	20-F	2	3	11,11,12	1.67	3 (27%)	15,15,17	1.83	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	BGC	20-F	3	3	11,11,12	1.30	2 (18%)	15,15,17	1.24	2 (13%)
3	BGC	20-F	4	3	11,11,12	1.39	2 (18%)	15,15,17	0.93	0
3	BGC	20-F	5	3	11,11,12	1.68	1 (9%)	15,15,17	0.78	0
2	BGC	21-C	1	2	12,12,12	1.72	3 (25%)	17,17,17	1.23	1 (5%)
2	BGC	21-C	2	2	11,11,12	1.71	3 (27%)	15,15,17	1.96	5 (33%)
2	BGC	21-C	3	2	11,11,12	1.43	3 (27%)	15,15,17	1.40	3 (20%)
2	BGC	21-C	4	2	11,11,12	0.94	1 (9%)	15,15,17	1.19	1 (6%)
2	BGC	21-C	5	2	11,11,12	1.37	1 (9%)	15,15,17	1.64	3 (20%)
2	BGC	21-C	6	2	11,11,12	1.44	2 (18%)	15,15,17	1.16	0
3	BGC	21-D	1	3	12,12,12	1.36	2 (16%)	17,17,17	1.31	2 (11%)
3	BGC	21-D	2	3	11,11,12	1.38	2 (18%)	15,15,17	2.12	2 (13%)
3	BGC	21-D	3	3	11,11,12	1.29	2 (18%)	15,15,17	1.34	3 (20%)
3	BGC	21-D	4	3	11,11,12	1.34	2 (18%)	15,15,17	1.29	3 (20%)
3	BGC	21-D	5	3	11,11,12	1.65	1 (9%)	15,15,17	1.13	2 (13%)
2	BGC	21-E	1	2	12,12,12	1.87	3 (25%)	17,17,17	1.51	3 (17%)
2	BGC	21-E	2	2	11,11,12	1.54	3 (27%)	15,15,17	1.53	2 (13%)
2	BGC	21-E	3	2	11,11,12	1.37	2 (18%)	15,15,17	1.22	2 (13%)
2	BGC	21-E	4	2	11,11,12	0.90	1 (9%)	15,15,17	1.65	4 (26%)
2	BGC	21-E	5	2	11,11,12	1.45	3 (27%)	15,15,17	1.91	5 (33%)
2	BGC	21-E	6	2	11,11,12	1.36	3 (27%)	15,15,17	1.49	2 (13%)
3	BGC	21-F	1	3	12,12,12	1.26	2 (16%)	17,17,17	0.94	0
3	BGC	21-F	2	3	11,11,12	1.67	2 (18%)	15,15,17	1.73	2 (13%)
3	BGC	21-F	3	3	11,11,12	1.34	2 (18%)	15,15,17	1.42	3 (20%)
3	BGC	21-F	4	3	11,11,12	1.22	2 (18%)	15,15,17	1.04	0
3	BGC	21-F	5	3	11,11,12	1.73	1 (9%)	15,15,17	0.79	0
2	BGC	22-C	1	2	12,12,12	1.60	3 (25%)	17,17,17	1.05	0
2	BGC	22-C	2	2	11,11,12	1.45	3 (27%)	15,15,17	1.68	4 (26%)
2	BGC	22-C	3	2	11,11,12	1.27	2 (18%)	15,15,17	1.46	2 (13%)
2	BGC	22-C	4	2	11,11,12	1.09	1 (9%)	15,15,17	1.24	1 (6%)
2	BGC	22-C	5	2	11,11,12	1.50	2 (18%)	15,15,17	1.57	1 (6%)
2	BGC	22-C	6	2	11,11,12	1.42	1 (9%)	15,15,17	2.08	5 (33%)
3	BGC	22-D	1	3	12,12,12	1.29	1 (8%)	17,17,17	1.91	5 (29%)
3	BGC	22-D	2	3	11,11,12	1.35	1 (9%)	15,15,17	1.87	4 (26%)
3	BGC	22-D	3	3	11,11,12	1.31	2 (18%)	15,15,17	1.69	4 (26%)
3	BGC	22-D	4	3	11,11,12	1.25	2 (18%)	15,15,17	1.14	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	BGC	22-D	5	3	11,11,12	1.38	1 (9%)	15,15,17	1.51	2 (13%)
2	BGC	22-E	1	2	12,12,12	1.55	3 (25%)	17,17,17	1.29	2 (11%)
2	BGC	22-E	2	2	11,11,12	1.48	3 (27%)	15,15,17	1.37	2 (13%)
2	BGC	22-E	3	2	11,11,12	1.23	1 (9%)	15,15,17	1.32	1 (6%)
2	BGC	22-E	4	2	11,11,12	0.79	0	15,15,17	1.56	2 (13%)
2	BGC	22-E	5	2	11,11,12	1.49	2 (18%)	15,15,17	1.35	2 (13%)
2	BGC	22-E	6	2	11,11,12	1.53	2 (18%)	15,15,17	1.05	1 (6%)
3	BGC	22-F	1	3	12,12,12	1.31	1 (8%)	17,17,17	1.28	2 (11%)
3	BGC	22-F	2	3	11,11,12	1.43	2 (18%)	15,15,17	1.43	1 (6%)
3	BGC	22-F	3	3	11,11,12	1.28	1 (9%)	15,15,17	1.26	3 (20%)
3	BGC	22-F	4	3	11,11,12	1.43	2 (18%)	15,15,17	1.12	1 (6%)
3	BGC	22-F	5	3	11,11,12	1.57	1 (9%)	15,15,17	0.76	0
2	BGC	23-C	1	2	12,12,12	1.63	3 (25%)	17,17,17	1.56	3 (17%)
2	BGC	23-C	2	2	11,11,12	1.47	3 (27%)	15,15,17	1.69	3 (20%)
2	BGC	23-C	3	2	11,11,12	1.33	3 (27%)	15,15,17	1.31	2 (13%)
2	BGC	23-C	4	2	11,11,12	0.82	0	15,15,17	1.99	5 (33%)
2	BGC	23-C	5	2	11,11,12	1.22	1 (9%)	15,15,17	1.39	2 (13%)
2	BGC	23-C	6	2	11,11,12	1.52	2 (18%)	15,15,17	1.70	4 (26%)
3	BGC	23-D	1	3	12,12,12	1.34	2 (16%)	17,17,17	1.63	5 (29%)
3	BGC	23-D	2	3	11,11,12	1.44	1 (9%)	15,15,17	1.55	1 (6%)
3	BGC	23-D	3	3	11,11,12	1.34	2 (18%)	15,15,17	1.60	2 (13%)
3	BGC	23-D	4	3	11,11,12	1.32	2 (18%)	15,15,17	1.35	4 (26%)
3	BGC	23-D	5	3	11,11,12	1.54	1 (9%)	15,15,17	1.28	2 (13%)
2	BGC	23-E	1	2	12,12,12	1.55	3 (25%)	17,17,17	1.12	2 (11%)
2	BGC	23-E	2	2	11,11,12	1.42	2 (18%)	15,15,17	1.22	2 (13%)
2	BGC	23-E	3	2	11,11,12	1.40	1 (9%)	15,15,17	1.60	2 (13%)
2	BGC	23-E	4	2	11,11,12	0.88	1 (9%)	15,15,17	1.87	2 (13%)
2	BGC	23-E	5	2	11,11,12	1.28	3 (27%)	15,15,17	1.35	2 (13%)
2	BGC	23-E	6	2	11,11,12	1.43	2 (18%)	15,15,17	1.87	3 (20%)
3	BGC	23-F	1	3	12,12,12	1.45	2 (16%)	17,17,17	1.78	6 (35%)
3	BGC	23-F	2	3	11,11,12	1.46	2 (18%)	15,15,17	1.47	3 (20%)
3	BGC	23-F	3	3	11,11,12	1.14	1 (9%)	15,15,17	1.42	2 (13%)
3	BGC	23-F	4	3	11,11,12	1.38	2 (18%)	15,15,17	1.16	1 (6%)
3	BGC	23-F	5	3	11,11,12	1.61	1 (9%)	15,15,17	1.86	3 (20%)
2	BGC	24-C	1	2	12,12,12	1.53	3 (25%)	17,17,17	1.44	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	24-C	2	2	11,11,12	1.52	3 (27%)	15,15,17	1.51	3 (20%)
2	BGC	24-C	3	2	11,11,12	1.46	2 (18%)	15,15,17	1.33	2 (13%)
2	BGC	24-C	4	2	11,11,12	0.94	0	15,15,17	1.40	2 (13%)
2	BGC	24-C	5	2	11,11,12	1.24	1 (9%)	15,15,17	1.56	2 (13%)
2	BGC	24-C	6	2	11,11,12	1.39	2 (18%)	15,15,17	2.25	3 (20%)
3	BGC	24-D	1	3	12,12,12	1.31	1 (8%)	17,17,17	1.35	2 (11%)
3	BGC	24-D	2	3	11,11,12	1.23	1 (9%)	15,15,17	1.64	1 (6%)
3	BGC	24-D	3	3	11,11,12	1.37	2 (18%)	15,15,17	1.39	3 (20%)
3	BGC	24-D	4	3	11,11,12	1.34	2 (18%)	15,15,17	1.36	3 (20%)
3	BGC	24-D	5	3	11,11,12	1.64	1 (9%)	15,15,17	1.21	1 (6%)
2	BGC	24-E	1	2	12,12,12	1.58	3 (25%)	17,17,17	1.37	2 (11%)
2	BGC	24-E	2	2	11,11,12	1.60	2 (18%)	15,15,17	0.94	0
2	BGC	24-E	3	2	11,11,12	1.28	1 (9%)	15,15,17	1.22	1 (6%)
2	BGC	24-E	4	2	11,11,12	0.85	1 (9%)	15,15,17	1.41	2 (13%)
2	BGC	24-E	5	2	11,11,12	1.39	2 (18%)	15,15,17	1.53	2 (13%)
2	BGC	24-E	6	2	11,11,12	1.50	2 (18%)	15,15,17	1.60	5 (33%)
3	BGC	24-F	1	3	12,12,12	1.35	2 (16%)	17,17,17	1.11	1 (5%)
3	BGC	24-F	2	3	11,11,12	1.58	1 (9%)	15,15,17	1.74	4 (26%)
3	BGC	24-F	3	3	11,11,12	1.24	1 (9%)	15,15,17	1.50	2 (13%)
3	BGC	24-F	4	3	11,11,12	1.32	2 (18%)	15,15,17	1.12	0
3	BGC	24-F	5	3	11,11,12	1.67	1 (9%)	15,15,17	0.84	0
2	BGC	25-C	1	2	12,12,12	1.62	3 (25%)	17,17,17	1.03	0
2	BGC	25-C	2	2	11,11,12	1.40	3 (27%)	15,15,17	1.46	2 (13%)
2	BGC	25-C	3	2	11,11,12	1.30	3 (27%)	15,15,17	1.40	3 (20%)
2	BGC	25-C	4	2	11,11,12	0.82	0	15,15,17	1.45	4 (26%)
2	BGC	25-C	5	2	11,11,12	1.37	1 (9%)	15,15,17	1.52	3 (20%)
2	BGC	25-C	6	2	11,11,12	1.25	1 (9%)	15,15,17	1.81	3 (20%)
3	BGC	25-D	1	3	12,12,12	1.34	2 (16%)	17,17,17	1.41	2 (11%)
3	BGC	25-D	2	3	11,11,12	1.39	1 (9%)	15,15,17	2.05	4 (26%)
3	BGC	25-D	3	3	11,11,12	1.35	1 (9%)	15,15,17	1.56	2 (13%)
3	BGC	25-D	4	3	11,11,12	1.38	2 (18%)	15,15,17	1.36	3 (20%)
3	BGC	25-D	5	3	11,11,12	1.59	1 (9%)	15,15,17	1.15	2 (13%)
2	BGC	25-E	1	2	12,12,12	1.66	3 (25%)	17,17,17	1.58	5 (29%)
2	BGC	25-E	2	2	11,11,12	1.39	3 (27%)	15,15,17	1.49	2 (13%)
2	BGC	25-E	3	2	11,11,12	1.30	1 (9%)	15,15,17	1.43	3 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	25-E	4	2	11,11,12	0.71	1 (9%)	15,15,17	1.60	4 (26%)
2	BGC	25-E	5	2	11,11,12	1.31	3 (27%)	15,15,17	1.39	2 (13%)
2	BGC	25-E	6	2	11,11,12	1.33	2 (18%)	15,15,17	1.04	0
3	BGC	25-F	1	3	12,12,12	1.35	2 (16%)	17,17,17	1.10	0
3	BGC	25-F	2	3	11,11,12	1.58	3 (27%)	15,15,17	2.08	3 (20%)
3	BGC	25-F	3	3	11,11,12	1.46	2 (18%)	15,15,17	1.97	5 (33%)
3	BGC	25-F	4	3	11,11,12	1.28	2 (18%)	15,15,17	1.77	2 (13%)
3	BGC	25-F	5	3	11,11,12	1.52	1 (9%)	15,15,17	1.03	1 (6%)
2	BGC	3-C	1	2	12,12,12	1.66	3 (25%)	17,17,17	1.05	1 (5%)
2	BGC	3-C	2	2	11,11,12	1.40	3 (27%)	15,15,17	1.66	3 (20%)
2	BGC	3-C	3	2	11,11,12	1.39	2 (18%)	15,15,17	1.10	1 (6%)
2	BGC	3-C	4	2	11,11,12	0.95	1 (9%)	15,15,17	1.33	2 (13%)
2	BGC	3-C	5	2	11,11,12	1.34	1 (9%)	15,15,17	2.13	5 (33%)
2	BGC	3-C	6	2	11,11,12	1.36	2 (18%)	15,15,17	1.34	1 (6%)
3	BGC	3-D	1	3	12,12,12	1.34	1 (8%)	17,17,17	1.46	4 (23%)
3	BGC	3-D	2	3	11,11,12	1.41	1 (9%)	15,15,17	1.71	3 (20%)
3	BGC	3-D	3	3	11,11,12	1.35	2 (18%)	15,15,17	1.56	2 (13%)
3	BGC	3-D	4	3	11,11,12	1.19	1 (9%)	15,15,17	1.56	3 (20%)
3	BGC	3-D	5	3	11,11,12	1.73	1 (9%)	15,15,17	1.22	1 (6%)
2	BGC	3-E	1	2	12,12,12	1.69	4 (33%)	17,17,17	0.99	1 (5%)
2	BGC	3-E	2	2	11,11,12	1.49	3 (27%)	15,15,17	1.49	2 (13%)
2	BGC	3-E	3	2	11,11,12	1.57	3 (27%)	15,15,17	1.24	1 (6%)
2	BGC	3-E	4	2	11,11,12	1.00	1 (9%)	15,15,17	3.84	7 (46%)
2	BGC	3-E	5	2	11,11,12	1.23	2 (18%)	15,15,17	1.31	2 (13%)
2	BGC	3-E	6	2	11,11,12	1.45	2 (18%)	15,15,17	1.65	3 (20%)
3	BGC	3-F	1	3	12,12,12	1.32	2 (16%)	17,17,17	1.00	0
3	BGC	3-F	2	3	11,11,12	1.49	1 (9%)	15,15,17	1.79	2 (13%)
3	BGC	3-F	3	3	11,11,12	1.40	2 (18%)	15,15,17	1.26	2 (13%)
3	BGC	3-F	4	3	11,11,12	1.29	2 (18%)	15,15,17	1.06	1 (6%)
3	BGC	3-F	5	3	11,11,12	1.64	1 (9%)	15,15,17	0.84	0
2	BGC	4-C	1	2	12,12,12	1.72	3 (25%)	17,17,17	1.22	2 (11%)
2	BGC	4-C	2	2	11,11,12	1.46	3 (27%)	15,15,17	1.57	4 (26%)
2	BGC	4-C	3	2	11,11,12	1.52	3 (27%)	15,15,17	1.41	4 (26%)
2	BGC	4-C	4	2	11,11,12	0.90	0	15,15,17	1.09	1 (6%)
2	BGC	4-C	5	2	11,11,12	1.46	1 (9%)	15,15,17	1.38	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	4-C	6	2	11,11,12	1.60	2 (18%)	15,15,17	1.69	4 (26%)
3	BGC	4-D	1	3	12,12,12	1.28	1 (8%)	17,17,17	1.24	3 (17%)
3	BGC	4-D	2	3	11,11,12	1.43	1 (9%)	15,15,17	1.91	4 (26%)
3	BGC	4-D	3	3	11,11,12	1.47	2 (18%)	15,15,17	1.97	4 (26%)
3	BGC	4-D	4	3	11,11,12	1.71	2 (18%)	15,15,17	1.53	4 (26%)
3	BGC	4-D	5	3	11,11,12	1.65	1 (9%)	15,15,17	1.29	2 (13%)
2	BGC	4-E	1	2	12,12,12	1.63	3 (25%)	17,17,17	1.22	3 (17%)
2	BGC	4-E	2	2	11,11,12	1.49	2 (18%)	15,15,17	1.32	3 (20%)
2	BGC	4-E	3	2	11,11,12	1.37	1 (9%)	15,15,17	1.22	2 (13%)
2	BGC	4-E	4	2	11,11,12	0.81	0	15,15,17	1.38	3 (20%)
2	BGC	4-E	5	2	11,11,12	1.26	2 (18%)	15,15,17	1.08	2 (13%)
2	BGC	4-E	6	2	11,11,12	1.47	3 (27%)	15,15,17	1.57	2 (13%)
3	BGC	4-F	1	3	12,12,12	1.33	1 (8%)	17,17,17	0.91	0
3	BGC	4-F	2	3	11,11,12	1.45	1 (9%)	15,15,17	1.68	2 (13%)
3	BGC	4-F	3	3	11,11,12	1.43	2 (18%)	15,15,17	1.29	2 (13%)
3	BGC	4-F	4	3	11,11,12	1.29	2 (18%)	15,15,17	1.06	0
3	BGC	4-F	5	3	11,11,12	1.59	1 (9%)	15,15,17	1.28	2 (13%)
2	BGC	5-C	1	2	12,12,12	1.70	3 (25%)	17,17,17	1.69	5 (29%)
2	BGC	5-C	2	2	11,11,12	1.51	3 (27%)	15,15,17	1.75	4 (26%)
2	BGC	5-C	3	2	11,11,12	1.45	3 (27%)	15,15,17	1.43	1 (6%)
2	BGC	5-C	4	2	11,11,12	0.90	0	15,15,17	1.34	2 (13%)
2	BGC	5-C	5	2	11,11,12	1.44	2 (18%)	15,15,17	1.33	1 (6%)
2	BGC	5-C	6	2	11,11,12	1.59	2 (18%)	15,15,17	1.31	2 (13%)
3	BGC	5-D	1	3	12,12,12	1.34	1 (8%)	17,17,17	1.42	1 (5%)
3	BGC	5-D	2	3	11,11,12	1.35	1 (9%)	15,15,17	1.82	4 (26%)
3	BGC	5-D	3	3	11,11,12	1.45	2 (18%)	15,15,17	1.84	5 (33%)
3	BGC	5-D	4	3	11,11,12	1.24	1 (9%)	15,15,17	1.39	4 (26%)
3	BGC	5-D	5	3	11,11,12	1.57	1 (9%)	15,15,17	0.94	0
2	BGC	5-E	1	2	12,12,12	1.56	3 (25%)	17,17,17	1.06	1 (5%)
2	BGC	5-E	2	2	11,11,12	1.67	3 (27%)	15,15,17	0.89	0
2	BGC	5-E	3	2	11,11,12	1.42	2 (18%)	15,15,17	1.33	1 (6%)
2	BGC	5-E	4	2	11,11,12	0.91	1 (9%)	15,15,17	1.65	2 (13%)
2	BGC	5-E	5	2	11,11,12	1.37	2 (18%)	15,15,17	1.37	2 (13%)
2	BGC	5-E	6	2	11,11,12	1.42	2 (18%)	15,15,17	1.55	4 (26%)
3	BGC	5-F	1	3	12,12,12	1.44	3 (25%)	17,17,17	1.82	4 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	BGC	5-F	2	3	11,11,12	1.74	1 (9%)	15,15,17	1.84	2 (13%)
3	BGC	5-F	3	3	11,11,12	1.34	2 (18%)	15,15,17	1.12	0
3	BGC	5-F	4	3	11,11,12	1.41	2 (18%)	15,15,17	1.28	1 (6%)
3	BGC	5-F	5	3	11,11,12	1.67	1 (9%)	15,15,17	1.12	2 (13%)
2	BGC	6-C	1	2	12,12,12	1.59	3 (25%)	17,17,17	1.19	2 (11%)
2	BGC	6-C	2	2	11,11,12	1.43	3 (27%)	15,15,17	1.69	4 (26%)
2	BGC	6-C	3	2	11,11,12	1.37	3 (27%)	15,15,17	1.69	3 (20%)
2	BGC	6-C	4	2	11,11,12	0.80	0	15,15,17	1.13	2 (13%)
2	BGC	6-C	5	2	11,11,12	1.41	2 (18%)	15,15,17	1.43	2 (13%)
2	BGC	6-C	6	2	11,11,12	1.38	1 (9%)	15,15,17	1.51	3 (20%)
3	BGC	6-D	1	3	12,12,12	1.34	1 (8%)	17,17,17	2.01	6 (35%)
3	BGC	6-D	2	3	11,11,12	1.80	2 (18%)	15,15,17	2.53	6 (40%)
3	BGC	6-D	3	3	11,11,12	1.27	2 (18%)	15,15,17	1.62	5 (33%)
3	BGC	6-D	4	3	11,11,12	1.24	1 (9%)	15,15,17	1.18	2 (13%)
3	BGC	6-D	5	3	11,11,12	1.43	1 (9%)	15,15,17	1.64	3 (20%)
2	BGC	6-E	1	2	12,12,12	1.65	3 (25%)	17,17,17	1.42	1 (5%)
2	BGC	6-E	2	2	11,11,12	1.54	3 (27%)	15,15,17	1.23	2 (13%)
2	BGC	6-E	3	2	11,11,12	1.20	1 (9%)	15,15,17	1.52	2 (13%)
2	BGC	6-E	4	2	11,11,12	0.86	1 (9%)	15,15,17	1.31	2 (13%)
2	BGC	6-E	5	2	11,11,12	1.24	2 (18%)	15,15,17	1.38	2 (13%)
2	BGC	6-E	6	2	11,11,12	1.33	2 (18%)	15,15,17	1.17	1 (6%)
3	BGC	6-F	1	3	12,12,12	1.28	1 (8%)	17,17,17	0.89	0
3	BGC	6-F	2	3	11,11,12	1.59	1 (9%)	15,15,17	2.06	5 (33%)
3	BGC	6-F	3	3	11,11,12	1.42	3 (27%)	15,15,17	1.65	2 (13%)
3	BGC	6-F	4	3	11,11,12	1.29	2 (18%)	15,15,17	0.75	0
3	BGC	6-F	5	3	11,11,12	1.78	1 (9%)	15,15,17	0.91	0
2	BGC	7-C	1	2	12,12,12	1.66	3 (25%)	17,17,17	1.68	5 (29%)
2	BGC	7-C	2	2	11,11,12	1.61	3 (27%)	15,15,17	4.18	5 (33%)
2	BGC	7-C	3	2	11,11,12	1.46	2 (18%)	15,15,17	1.31	2 (13%)
2	BGC	7-C	4	2	11,11,12	1.02	1 (9%)	15,15,17	1.35	2 (13%)
2	BGC	7-C	5	2	11,11,12	1.50	2 (18%)	15,15,17	1.45	3 (20%)
2	BGC	7-C	6	2	11,11,12	1.40	2 (18%)	15,15,17	1.07	0
3	BGC	7-D	1	3	12,12,12	1.25	1 (8%)	17,17,17	1.24	2 (11%)
3	BGC	7-D	2	3	11,11,12	1.46	1 (9%)	15,15,17	1.75	1 (6%)
3	BGC	7-D	3	3	11,11,12	1.32	2 (18%)	15,15,17	1.63	5 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	BGC	7-D	4	3	11,11,12	1.41	2 (18%)	15,15,17	1.35	2 (13%)
3	BGC	7-D	5	3	11,11,12	1.47	1 (9%)	15,15,17	1.44	2 (13%)
2	BGC	7-E	1	2	12,12,12	1.57	3 (25%)	17,17,17	1.07	2 (11%)
2	BGC	7-E	2	2	11,11,12	1.38	2 (18%)	15,15,17	1.29	1 (6%)
2	BGC	7-E	3	2	11,11,12	1.29	1 (9%)	15,15,17	1.38	2 (13%)
2	BGC	7-E	4	2	11,11,12	0.76	0	15,15,17	1.31	1 (6%)
2	BGC	7-E	5	2	11,11,12	1.31	3 (27%)	15,15,17	1.44	2 (13%)
2	BGC	7-E	6	2	11,11,12	1.44	3 (27%)	15,15,17	1.29	2 (13%)
3	BGC	7-F	1	3	12,12,12	1.23	1 (8%)	17,17,17	1.17	1 (5%)
3	BGC	7-F	2	3	11,11,12	1.50	3 (27%)	15,15,17	1.88	3 (20%)
3	BGC	7-F	3	3	11,11,12	1.26	2 (18%)	15,15,17	1.41	4 (26%)
3	BGC	7-F	4	3	11,11,12	1.49	2 (18%)	15,15,17	1.10	1 (6%)
3	BGC	7-F	5	3	11,11,12	1.63	1 (9%)	15,15,17	0.82	0
2	BGC	8-C	1	2	12,12,12	1.70	3 (25%)	17,17,17	1.37	3 (17%)
2	BGC	8-C	2	2	11,11,12	1.46	3 (27%)	15,15,17	1.49	3 (20%)
2	BGC	8-C	3	2	11,11,12	1.44	2 (18%)	15,15,17	1.29	2 (13%)
2	BGC	8-C	4	2	11,11,12	1.08	1 (9%)	15,15,17	1.52	3 (20%)
2	BGC	8-C	5	2	11,11,12	1.22	1 (9%)	15,15,17	1.00	0
2	BGC	8-C	6	2	11,11,12	1.41	2 (18%)	15,15,17	1.75	3 (20%)
3	BGC	8-D	1	3	12,12,12	1.26	2 (16%)	17,17,17	1.29	1 (5%)
3	BGC	8-D	2	3	11,11,12	1.47	1 (9%)	15,15,17	1.70	2 (13%)
3	BGC	8-D	3	3	11,11,12	1.30	1 (9%)	15,15,17	1.43	1 (6%)
3	BGC	8-D	4	3	11,11,12	1.23	1 (9%)	15,15,17	1.31	2 (13%)
3	BGC	8-D	5	3	11,11,12	1.68	1 (9%)	15,15,17	1.59	2 (13%)
2	BGC	8-E	1	2	12,12,12	1.66	3 (25%)	17,17,17	1.39	3 (17%)
2	BGC	8-E	2	2	11,11,12	1.58	2 (18%)	15,15,17	2.17	5 (33%)
2	BGC	8-E	3	2	11,11,12	1.38	2 (18%)	15,15,17	1.65	3 (20%)
2	BGC	8-E	4	2	11,11,12	0.77	1 (9%)	15,15,17	1.50	3 (20%)
2	BGC	8-E	5	2	11,11,12	1.49	2 (18%)	15,15,17	1.45	2 (13%)
2	BGC	8-E	6	2	11,11,12	1.32	2 (18%)	15,15,17	1.09	0
3	BGC	8-F	1	3	12,12,12	1.33	1 (8%)	17,17,17	0.96	1 (5%)
3	BGC	8-F	2	3	11,11,12	1.54	2 (18%)	15,15,17	2.03	2 (13%)
3	BGC	8-F	3	3	11,11,12	1.31	2 (18%)	15,15,17	1.34	2 (13%)
3	BGC	8-F	4	3	11,11,12	1.34	2 (18%)	15,15,17	1.18	0
3	BGC	8-F	5	3	11,11,12	1.70	2 (18%)	15,15,17	0.88	1 (6%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BGC	9-C	1	2	12,12,12	1.74	3 (25%)	17,17,17	1.60	4 (23%)
2	BGC	9-C	2	2	11,11,12	1.42	3 (27%)	15,15,17	1.89	4 (26%)
2	BGC	9-C	3	2	11,11,12	1.36	2 (18%)	15,15,17	1.17	1 (6%)
2	BGC	9-C	4	2	11,11,12	0.89	0	15,15,17	1.19	1 (6%)
2	BGC	9-C	5	2	11,11,12	1.41	1 (9%)	15,15,17	1.37	1 (6%)
2	BGC	9-C	6	2	11,11,12	1.32	2 (18%)	15,15,17	1.70	3 (20%)
3	BGC	9-D	1	3	12,12,12	1.34	1 (8%)	17,17,17	1.35	4 (23%)
3	BGC	9-D	2	3	11,11,12	1.30	1 (9%)	15,15,17	1.87	2 (13%)
3	BGC	9-D	3	3	11,11,12	1.19	2 (18%)	15,15,17	1.77	3 (20%)
3	BGC	9-D	4	3	11,11,12	1.19	1 (9%)	15,15,17	1.28	2 (13%)
3	BGC	9-D	5	3	11,11,12	1.66	1 (9%)	15,15,17	1.05	2 (13%)
2	BGC	9-E	1	2	12,12,12	1.74	3 (25%)	17,17,17	1.40	2 (11%)
2	BGC	9-E	2	2	11,11,12	1.44	2 (18%)	15,15,17	2.04	4 (26%)
2	BGC	9-E	3	2	11,11,12	1.37	1 (9%)	15,15,17	1.20	1 (6%)
2	BGC	9-E	4	2	11,11,12	0.76	0	15,15,17	1.14	2 (13%)
2	BGC	9-E	5	2	11,11,12	1.28	3 (27%)	15,15,17	1.73	4 (26%)
2	BGC	9-E	6	2	11,11,12	1.48	2 (18%)	15,15,17	1.44	3 (20%)
3	BGC	9-F	1	3	12,12,12	1.30	2 (16%)	17,17,17	0.99	0
3	BGC	9-F	2	3	11,11,12	1.55	2 (18%)	15,15,17	1.51	2 (13%)
3	BGC	9-F	3	3	11,11,12	1.21	1 (9%)	15,15,17	1.49	3 (20%)
3	BGC	9-F	4	3	11,11,12	1.21	2 (18%)	15,15,17	1.13	0
3	BGC	9-F	5	3	11,11,12	1.98	1 (9%)	15,15,17	1.07	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	1-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	1-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	1-C	3	2	-	2/2/19/22	0/1/1/1
2	BGC	1-C	4	2	-	2/2/19/22	0/1/1/1
2	BGC	1-C	5	2	-	2/2/19/22	0/1/1/1
2	BGC	1-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	1-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	1-D	2	3	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	1-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	1-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	1-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	1-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	1-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	1-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	1-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	1-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	1-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	1-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	1-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	1-F	3	3	-	1/2/19/22	0/1/1/1
3	BGC	1-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	1-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	10-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	10-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	10-C	3	2	-	2/2/19/22	0/1/1/1
2	BGC	10-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	10-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	10-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	10-D	1	3	-	1/2/22/22	0/1/1/1
3	BGC	10-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	10-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	10-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	10-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	10-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	10-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	10-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	10-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	10-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	10-E	6	2	-	1/2/19/22	0/1/1/1
3	BGC	10-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	10-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	10-F	3	3	-	2/2/19/22	0/1/1/1
3	BGC	10-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	10-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	11-C	1	2	-	1/2/22/22	0/1/1/1
2	BGC	11-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	11-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	11-C	4	2	-	1/2/19/22	0/1/1/1
2	BGC	11-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	11-C	6	2	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	11-D	1	3	-	0/2/22/22	0/1/1/1
3	BGC	11-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	11-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	11-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	11-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	11-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	11-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	11-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	11-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	11-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	11-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	11-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	11-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	11-F	3	3	-	2/2/19/22	0/1/1/1
3	BGC	11-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	11-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	12-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	12-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	12-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	12-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	12-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	12-C	6	2	-	1/2/19/22	0/1/1/1
3	BGC	12-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	12-D	2	3	-	1/2/19/22	0/1/1/1
3	BGC	12-D	3	3	-	1/2/19/22	0/1/1/1
3	BGC	12-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	12-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	12-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	12-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	12-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	12-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	12-E	5	2	-	2/2/19/22	0/1/1/1
2	BGC	12-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	12-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	12-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	12-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	12-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	12-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	13-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	13-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	13-C	3	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	13-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	13-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	13-C	6	2	-	1/2/19/22	0/1/1/1
3	BGC	13-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	13-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	13-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	13-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	13-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	13-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	13-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	13-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	13-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	13-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	13-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	13-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	13-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	13-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	13-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	13-F	5	3	-	1/2/19/22	0/1/1/1
2	BGC	14-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	14-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	14-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	14-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	14-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	14-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	14-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	14-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	14-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	14-D	4	3	-	1/2/19/22	0/1/1/1
3	BGC	14-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	14-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	14-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	14-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	14-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	14-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	14-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	14-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	14-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	14-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	14-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	14-F	5	3	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	15-C	1	2	-	1/2/22/22	0/1/1/1
2	BGC	15-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	15-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	15-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	15-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	15-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	15-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	15-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	15-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	15-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	15-D	5	3	-	1/2/19/22	0/1/1/1
2	BGC	15-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	15-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	15-E	3	2	-	1/2/19/22	0/1/1/1
2	BGC	15-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	15-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	15-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	15-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	15-F	2	3	-	1/2/19/22	0/1/1/1
3	BGC	15-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	15-F	4	3	-	2/2/19/22	0/1/1/1
3	BGC	15-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	16-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	16-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	16-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	16-C	4	2	-	2/2/19/22	0/1/1/1
2	BGC	16-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	16-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	16-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	16-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	16-D	3	3	-	1/2/19/22	0/1/1/1
3	BGC	16-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	16-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	16-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	16-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	16-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	16-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	16-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	16-E	6	2	-	1/2/19/22	0/1/1/1
3	BGC	16-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	16-F	2	3	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	16-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	16-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	16-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	17-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	17-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	17-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	17-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	17-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	17-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	17-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	17-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	17-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	17-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	17-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	17-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	17-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	17-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	17-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	17-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	17-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	17-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	17-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	17-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	17-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	17-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	18-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	18-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	18-C	3	2	-	2/2/19/22	0/1/1/1
2	BGC	18-C	4	2	-	1/2/19/22	0/1/1/1
2	BGC	18-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	18-C	6	2	-	2/2/19/22	0/1/1/1
3	BGC	18-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	18-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	18-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	18-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	18-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	18-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	18-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	18-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	18-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	18-E	5	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	18-E	6	2	-	2/2/19/22	0/1/1/1
3	BGC	18-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	18-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	18-F	3	3	-	2/2/19/22	0/1/1/1
3	BGC	18-F	4	3	-	1/2/19/22	0/1/1/1
3	BGC	18-F	5	3	-	2/2/19/22	0/1/1/1
2	BGC	19-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	19-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	19-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	19-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	19-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	19-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	19-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	19-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	19-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	19-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	19-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	19-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	19-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	19-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	19-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	19-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	19-E	6	2	-	2/2/19/22	0/1/1/1
3	BGC	19-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	19-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	19-F	3	3	-	1/2/19/22	0/1/1/1
3	BGC	19-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	19-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	2-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	2-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	2-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	2-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	2-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	2-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	2-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	2-D	2	3	-	1/2/19/22	0/1/1/1
3	BGC	2-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	2-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	2-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	2-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	2-E	2	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	2-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	2-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	2-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	2-E	6	2	-	1/2/19/22	0/1/1/1
3	BGC	2-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	2-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	2-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	2-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	2-F	5	3	-	1/2/19/22	0/1/1/1
2	BGC	20-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	20-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	20-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	20-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	20-C	5	2	-	2/2/19/22	0/1/1/1
2	BGC	20-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	20-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	20-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	20-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	20-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	20-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	20-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	20-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	20-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	20-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	20-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	20-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	20-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	20-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	20-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	20-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	20-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	21-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	21-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	21-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	21-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	21-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	21-C	6	2	-	2/2/19/22	0/1/1/1
3	BGC	21-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	21-D	2	3	-	1/2/19/22	0/1/1/1
3	BGC	21-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	21-D	4	3	-	2/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	21-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	21-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	21-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	21-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	21-E	4	2	-	2/2/19/22	0/1/1/1
2	BGC	21-E	5	2	-	2/2/19/22	0/1/1/1
2	BGC	21-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	21-F	1	3	-	1/2/22/22	0/1/1/1
3	BGC	21-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	21-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	21-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	21-F	5	3	-	2/2/19/22	0/1/1/1
2	BGC	22-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	22-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	22-C	3	2	-	1/2/19/22	0/1/1/1
2	BGC	22-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	22-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	22-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	22-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	22-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	22-D	3	3	-	1/2/19/22	0/1/1/1
3	BGC	22-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	22-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	22-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	22-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	22-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	22-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	22-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	22-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	22-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	22-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	22-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	22-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	22-F	5	3	-	2/2/19/22	0/1/1/1
2	BGC	23-C	1	2	-	2/2/22/22	0/1/1/1
2	BGC	23-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	23-C	3	2	-	2/2/19/22	0/1/1/1
2	BGC	23-C	4	2	-	1/2/19/22	0/1/1/1
2	BGC	23-C	5	2	-	2/2/19/22	0/1/1/1
2	BGC	23-C	6	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	23-D	1	3	-	1/2/22/22	0/1/1/1
3	BGC	23-D	2	3	-	2/2/19/22	0/1/1/1
3	BGC	23-D	3	3	-	2/2/19/22	0/1/1/1
3	BGC	23-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	23-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	23-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	23-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	23-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	23-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	23-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	23-E	6	2	-	2/2/19/22	0/1/1/1
3	BGC	23-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	23-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	23-F	3	3	-	2/2/19/22	0/1/1/1
3	BGC	23-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	23-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	24-C	1	2	-	2/2/22/22	0/1/1/1
2	BGC	24-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	24-C	3	2	-	1/2/19/22	0/1/1/1
2	BGC	24-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	24-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	24-C	6	2	-	2/2/19/22	0/1/1/1
3	BGC	24-D	1	3	-	1/2/22/22	0/1/1/1
3	BGC	24-D	2	3	-	1/2/19/22	0/1/1/1
3	BGC	24-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	24-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	24-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	24-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	24-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	24-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	24-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	24-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	24-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	24-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	24-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	24-F	3	3	-	2/2/19/22	0/1/1/1
3	BGC	24-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	24-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	25-C	1	2	-	1/2/22/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	25-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	25-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	25-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	25-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	25-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	25-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	25-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	25-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	25-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	25-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	25-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	25-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	25-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	25-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	25-E	5	2	-	2/2/19/22	0/1/1/1
2	BGC	25-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	25-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	25-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	25-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	25-F	4	3	-	2/2/19/22	0/1/1/1
3	BGC	25-F	5	3	-	1/2/19/22	0/1/1/1
2	BGC	3-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	3-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	3-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	3-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	3-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	3-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	3-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	3-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	3-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	3-D	4	3	-	1/2/19/22	0/1/1/1
3	BGC	3-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	3-E	1	2	-	1/2/22/22	0/1/1/1
2	BGC	3-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	3-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	3-E	4	2	-	2/2/19/22	0/1/1/1
2	BGC	3-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	3-E	6	2	-	2/2/19/22	0/1/1/1
3	BGC	3-F	1	3	-	1/2/22/22	0/1/1/1
3	BGC	3-F	2	3	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	3-F	3	3	-	2/2/19/22	0/1/1/1
3	BGC	3-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	3-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	4-C	1	2	-	1/2/22/22	0/1/1/1
2	BGC	4-C	2	2	-	2/2/19/22	0/1/1/1
2	BGC	4-C	3	2	-	2/2/19/22	0/1/1/1
2	BGC	4-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	4-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	4-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	4-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	4-D	2	3	-	1/2/19/22	0/1/1/1
3	BGC	4-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	4-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	4-D	5	3	-	2/2/19/22	0/1/1/1
2	BGC	4-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	4-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	4-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	4-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	4-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	4-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	4-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	4-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	4-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	4-F	4	3	-	2/2/19/22	0/1/1/1
3	BGC	4-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	5-C	1	2	-	1/2/22/22	0/1/1/1
2	BGC	5-C	2	2	-	2/2/19/22	0/1/1/1
2	BGC	5-C	3	2	-	2/2/19/22	0/1/1/1
2	BGC	5-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	5-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	5-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	5-D	1	3	-	1/2/22/22	0/1/1/1
3	BGC	5-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	5-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	5-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	5-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	5-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	5-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	5-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	5-E	4	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	5-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	5-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	5-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	5-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	5-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	5-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	5-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	6-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	6-C	2	2	-	2/2/19/22	0/1/1/1
2	BGC	6-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	6-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	6-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	6-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	6-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	6-D	2	3	-	1/2/19/22	0/1/1/1
3	BGC	6-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	6-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	6-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	6-E	1	2	-	2/2/22/22	0/1/1/1
2	BGC	6-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	6-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	6-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	6-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	6-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	6-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	6-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	6-F	3	3	-	2/2/19/22	0/1/1/1
3	BGC	6-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	6-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	7-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	7-C	2	2	-	1/2/19/22	0/1/1/1
2	BGC	7-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	7-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	7-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	7-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	7-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	7-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	7-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	7-D	4	3	-	1/2/19/22	0/1/1/1
3	BGC	7-D	5	3	-	1/2/19/22	0/1/1/1
2	BGC	7-E	1	2	-	0/2/22/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	7-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	7-E	3	2	-	1/2/19/22	0/1/1/1
2	BGC	7-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	7-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	7-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	7-F	1	3	-	0/2/22/22	0/1/1/1
3	BGC	7-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	7-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	7-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	7-F	5	3	-	1/2/19/22	0/1/1/1
2	BGC	8-C	1	2	-	0/2/22/22	0/1/1/1
2	BGC	8-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	8-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	8-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	8-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	8-C	6	2	-	0/2/19/22	0/1/1/1
3	BGC	8-D	1	3	-	2/2/22/22	0/1/1/1
3	BGC	8-D	2	3	-	0/2/19/22	0/1/1/1
3	BGC	8-D	3	3	-	0/2/19/22	0/1/1/1
3	BGC	8-D	4	3	-	0/2/19/22	0/1/1/1
3	BGC	8-D	5	3	-	0/2/19/22	0/1/1/1
2	BGC	8-E	1	2	-	0/2/22/22	0/1/1/1
2	BGC	8-E	2	2	-	2/2/19/22	0/1/1/1
2	BGC	8-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	8-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	8-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	8-E	6	2	-	0/2/19/22	0/1/1/1
3	BGC	8-F	1	3	-	2/2/22/22	0/1/1/1
3	BGC	8-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	8-F	3	3	-	1/2/19/22	0/1/1/1
3	BGC	8-F	4	3	-	2/2/19/22	0/1/1/1
3	BGC	8-F	5	3	-	0/2/19/22	0/1/1/1
2	BGC	9-C	1	2	-	2/2/22/22	0/1/1/1
2	BGC	9-C	2	2	-	0/2/19/22	0/1/1/1
2	BGC	9-C	3	2	-	0/2/19/22	0/1/1/1
2	BGC	9-C	4	2	-	0/2/19/22	0/1/1/1
2	BGC	9-C	5	2	-	0/2/19/22	0/1/1/1
2	BGC	9-C	6	2	-	2/2/19/22	0/1/1/1
3	BGC	9-D	1	3	-	0/2/22/22	0/1/1/1
3	BGC	9-D	2	3	-	1/2/19/22	0/1/1/1
3	BGC	9-D	3	3	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BGC	9-D	4	3	-	2/2/19/22	0/1/1/1
3	BGC	9-D	5	3	-	1/2/19/22	0/1/1/1
2	BGC	9-E	1	2	-	1/2/22/22	0/1/1/1
2	BGC	9-E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	9-E	3	2	-	0/2/19/22	0/1/1/1
2	BGC	9-E	4	2	-	0/2/19/22	0/1/1/1
2	BGC	9-E	5	2	-	0/2/19/22	0/1/1/1
2	BGC	9-E	6	2	-	1/2/19/22	0/1/1/1
3	BGC	9-F	1	3	-	1/2/22/22	0/1/1/1
3	BGC	9-F	2	3	-	0/2/19/22	0/1/1/1
3	BGC	9-F	3	3	-	0/2/19/22	0/1/1/1
3	BGC	9-F	4	3	-	0/2/19/22	0/1/1/1
3	BGC	9-F	5	3	-	2/2/19/22	0/1/1/1

All (981) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	9-F	5	BGC	C2-C3	-5.86	1.43	1.52
3	3-D	5	BGC	C2-C3	-5.12	1.45	1.52
3	6-F	5	BGC	C2-C3	-5.04	1.45	1.52
3	9-D	5	BGC	C2-C3	-4.99	1.45	1.52
3	8-D	5	BGC	C2-C3	-4.91	1.45	1.52
3	4-D	5	BGC	C2-C3	-4.90	1.45	1.52
3	21-F	5	BGC	C2-C3	-4.88	1.45	1.52
3	12-F	5	BGC	C2-C3	-4.86	1.45	1.52
3	12-D	5	BGC	C2-C3	-4.86	1.45	1.52
3	21-D	5	BGC	C2-C3	-4.84	1.45	1.52
3	18-F	5	BGC	C2-C3	-4.82	1.45	1.52
3	2-D	5	BGC	C2-C3	-4.81	1.45	1.52
3	24-D	5	BGC	C2-C3	-4.80	1.45	1.52
3	16-F	5	BGC	C2-C3	-4.79	1.45	1.52
3	16-D	5	BGC	C2-C3	-4.77	1.45	1.52
3	11-D	5	BGC	C2-C3	-4.69	1.45	1.52
3	1-F	5	BGC	C2-C3	-4.68	1.45	1.52
3	10-D	5	BGC	C2-C3	-4.66	1.45	1.52
3	17-F	5	BGC	C2-C3	-4.62	1.45	1.52
3	20-D	5	BGC	C2-C3	-4.61	1.45	1.52
3	20-F	5	BGC	C2-C3	-4.59	1.45	1.52
3	15-D	5	BGC	C2-C3	-4.56	1.45	1.52
3	25-D	5	BGC	C2-C3	-4.55	1.45	1.52
3	14-D	5	BGC	C2-C3	-4.55	1.45	1.52
3	3-F	5	BGC	C2-C3	-4.54	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	19-F	5	BGC	C2-C3	-4.50	1.45	1.52
3	23-D	5	BGC	C2-C3	-4.49	1.45	1.52
3	5-D	5	BGC	C2-C3	-4.48	1.45	1.52
3	24-F	5	BGC	C2-C3	-4.48	1.45	1.52
3	5-F	5	BGC	C2-C3	-4.46	1.45	1.52
3	8-F	5	BGC	C2-C3	-4.46	1.45	1.52
3	4-F	5	BGC	C2-C3	-4.44	1.46	1.52
3	17-D	5	BGC	C2-C3	-4.42	1.46	1.52
3	23-F	5	BGC	C2-C3	-4.42	1.46	1.52
3	1-D	5	BGC	C2-C3	-4.40	1.46	1.52
3	15-F	5	BGC	C2-C3	-4.38	1.46	1.52
3	7-F	5	BGC	C2-C3	-4.35	1.46	1.52
3	18-D	5	BGC	C2-C3	-4.32	1.46	1.52
3	19-D	5	BGC	C2-C3	-4.32	1.46	1.52
3	4-D	4	BGC	C2-C3	-4.30	1.46	1.52
3	10-F	5	BGC	C2-C3	-4.29	1.46	1.52
3	7-D	5	BGC	C2-C3	-4.26	1.46	1.52
3	2-F	5	BGC	C2-C3	-4.24	1.46	1.52
3	14-F	5	BGC	C2-C3	-4.21	1.46	1.52
3	11-F	5	BGC	C2-C3	-4.20	1.46	1.52
3	22-F	5	BGC	C2-C3	-4.18	1.46	1.52
3	25-F	5	BGC	C2-C3	-4.04	1.46	1.52
3	5-F	2	BGC	O5-C1	4.02	1.50	1.43
3	17-F	2	BGC	O5-C1	4.00	1.50	1.43
3	18-F	2	BGC	O5-C1	3.99	1.50	1.43
3	13-D	5	BGC	C2-C3	-3.96	1.46	1.52
3	22-D	5	BGC	C2-C3	-3.93	1.46	1.52
3	11-D	4	BGC	C2-C3	-3.92	1.46	1.52
3	11-F	2	BGC	O5-C1	3.84	1.49	1.43
3	20-F	2	BGC	O5-C1	3.79	1.49	1.43
3	21-F	2	BGC	O5-C1	3.78	1.49	1.43
2	13-C	3	BGC	C2-C3	-3.76	1.47	1.52
2	14-E	1	BGC	C3-C2	-3.76	1.42	1.52
3	14-F	2	BGC	O5-C1	3.72	1.49	1.43
2	25-E	1	BGC	O3-C3	3.70	1.51	1.43
3	13-F	5	BGC	C2-C3	-3.68	1.47	1.52
2	14-E	2	BGC	C2-C3	-3.68	1.47	1.52
3	6-D	5	BGC	C2-C3	-3.67	1.47	1.52
2	9-E	1	BGC	C3-C2	-3.63	1.43	1.52
3	2-F	2	BGC	O5-C1	3.63	1.49	1.43
2	12-E	1	BGC	C3-C2	-3.60	1.43	1.52
2	20-C	1	BGC	O3-C3	3.59	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-D	2	BGC	C2-C3	-3.58	1.47	1.52
2	21-C	2	BGC	C2-C3	-3.58	1.47	1.52
2	9-C	1	BGC	C3-C2	-3.56	1.43	1.52
2	15-C	2	BGC	C2-C3	-3.53	1.47	1.52
3	17-D	4	BGC	C2-C3	-3.52	1.47	1.52
3	24-F	2	BGC	O5-C1	3.52	1.49	1.43
3	16-F	2	BGC	O5-C1	3.50	1.49	1.43
3	13-D	4	BGC	C2-C3	-3.50	1.47	1.52
3	12-F	2	BGC	O5-C1	3.50	1.49	1.43
2	3-E	1	BGC	O3-C3	3.50	1.51	1.43
2	5-E	2	BGC	C2-C3	-3.50	1.47	1.52
2	24-E	2	BGC	C2-C3	-3.49	1.47	1.52
2	21-E	1	BGC	C3-C2	-3.49	1.43	1.52
3	1-F	2	BGC	O5-C1	3.47	1.49	1.43
2	8-C	1	BGC	O3-C3	3.46	1.51	1.43
3	6-F	2	BGC	O5-C1	3.46	1.49	1.43
2	10-E	2	BGC	C2-C3	-3.45	1.47	1.52
2	24-C	3	BGC	C2-C3	-3.45	1.47	1.52
2	7-C	3	BGC	C2-C3	-3.45	1.47	1.52
2	3-E	3	BGC	C2-C3	-3.44	1.47	1.52
2	10-E	6	BGC	C2-C3	-3.44	1.47	1.52
2	11-E	1	BGC	C3-C2	-3.44	1.43	1.52
2	3-C	1	BGC	O3-C3	3.44	1.51	1.43
2	21-E	2	BGC	C2-C3	-3.43	1.47	1.52
3	15-F	2	BGC	O5-C1	3.42	1.49	1.43
2	21-C	1	BGC	O3-C3	3.41	1.51	1.43
3	23-F	1	BGC	C3-C2	-3.41	1.43	1.52
3	3-F	2	BGC	O5-C1	3.40	1.49	1.43
2	11-C	1	BGC	O3-C3	3.40	1.51	1.43
3	1-D	4	BGC	C2-C3	-3.39	1.47	1.52
3	25-D	4	BGC	C2-C3	-3.38	1.47	1.52
3	14-D	4	BGC	C2-C3	-3.38	1.47	1.52
3	9-F	2	BGC	O5-C1	3.38	1.49	1.43
2	16-E	3	BGC	C2-C3	-3.37	1.47	1.52
2	6-E	2	BGC	C2-C3	-3.37	1.47	1.52
2	19-C	1	BGC	C3-C2	-3.36	1.43	1.52
2	21-C	1	BGC	C3-C2	-3.36	1.43	1.52
2	14-C	1	BGC	O3-C3	3.36	1.50	1.43
2	18-C	1	BGC	O3-C3	3.35	1.50	1.43
2	4-C	3	BGC	C2-C3	-3.35	1.47	1.52
3	10-F	2	BGC	O5-C1	3.35	1.49	1.43
2	13-C	1	BGC	C3-C2	-3.34	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-C	1	BGC	O3-C3	3.34	1.50	1.43
3	20-D	4	BGC	C2-C3	-3.34	1.47	1.52
3	13-F	4	BGC	C2-C3	-3.34	1.47	1.52
2	16-C	1	BGC	O3-C3	3.33	1.50	1.43
2	17-C	1	BGC	O3-C3	3.32	1.50	1.43
3	15-D	1	BGC	C3-C2	-3.32	1.43	1.52
2	4-C	1	BGC	O3-C3	3.32	1.50	1.43
2	12-C	1	BGC	O3-C3	3.31	1.50	1.43
2	4-C	1	BGC	C3-C2	-3.31	1.43	1.52
2	17-E	6	BGC	C2-C3	-3.31	1.47	1.52
2	22-E	2	BGC	C2-C3	-3.31	1.47	1.52
2	12-C	1	BGC	C3-C2	-3.30	1.43	1.52
2	17-E	6	BGC	C4-C3	-3.29	1.43	1.52
2	13-E	1	BGC	C3-C2	-3.29	1.43	1.52
2	5-C	6	BGC	C4-C3	-3.28	1.44	1.52
2	10-E	1	BGC	C3-C2	-3.27	1.44	1.52
3	7-F	2	BGC	O5-C1	3.27	1.48	1.43
2	4-E	2	BGC	C2-C3	-3.27	1.47	1.52
2	17-C	3	BGC	C2-C3	-3.26	1.47	1.52
2	5-E	1	BGC	C3-C2	-3.25	1.44	1.52
3	20-D	3	BGC	C2-C3	-3.25	1.47	1.52
2	7-C	2	BGC	C4-C3	-3.24	1.44	1.52
2	2-C	5	BGC	O3-C3	3.24	1.50	1.43
2	8-E	1	BGC	C3-C2	-3.23	1.44	1.52
2	1-C	1	BGC	O3-C3	3.23	1.50	1.43
2	11-E	2	BGC	C2-C3	-3.23	1.47	1.52
2	25-C	1	BGC	O3-C3	3.23	1.50	1.43
2	23-C	6	BGC	C4-C3	-3.22	1.44	1.52
2	15-E	6	BGC	C2-C3	-3.22	1.47	1.52
2	12-C	3	BGC	C2-C3	-3.21	1.47	1.52
2	14-C	1	BGC	C3-C2	-3.20	1.44	1.52
3	13-F	2	BGC	O5-C1	3.20	1.48	1.43
2	7-C	1	BGC	C3-C2	-3.19	1.44	1.52
2	20-E	1	BGC	C3-C2	-3.19	1.44	1.52
2	10-C	1	BGC	O3-C3	3.19	1.50	1.43
2	8-E	2	BGC	C4-C3	-3.18	1.44	1.52
2	9-C	1	BGC	O3-C3	3.18	1.50	1.43
2	24-C	2	BGC	C2-C3	-3.17	1.47	1.52
2	4-E	1	BGC	C3-C2	-3.17	1.44	1.52
2	24-E	1	BGC	C3-C2	-3.17	1.44	1.52
2	16-C	1	BGC	C3-C2	-3.16	1.44	1.52
3	19-F	2	BGC	O5-C1	3.16	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	8-C	3	BGC	C2-C3	-3.16	1.47	1.52
2	16-C	3	BGC	C2-C3	-3.16	1.47	1.52
2	23-C	1	BGC	O3-C3	3.16	1.50	1.43
2	20-E	2	BGC	C2-C3	-3.16	1.47	1.52
3	12-D	4	BGC	C2-C3	-3.16	1.47	1.52
2	3-C	3	BGC	C2-C3	-3.15	1.47	1.52
3	11-D	3	BGC	C2-C3	-3.15	1.47	1.52
3	6-D	2	BGC	O5-C1	3.15	1.48	1.43
2	15-E	2	BGC	C2-C3	-3.15	1.47	1.52
3	21-D	4	BGC	C2-C3	-3.14	1.47	1.52
2	15-C	1	BGC	C3-C2	-3.14	1.44	1.52
2	2-E	1	BGC	O3-C3	3.14	1.50	1.43
2	16-E	5	BGC	C2-C3	-3.13	1.47	1.52
2	4-C	5	BGC	O3-C3	3.13	1.50	1.43
3	24-D	4	BGC	C2-C3	-3.13	1.47	1.52
2	24-E	6	BGC	C4-C3	-3.13	1.44	1.52
2	6-E	1	BGC	C3-C2	-3.13	1.44	1.52
3	23-D	4	BGC	C2-C3	-3.13	1.47	1.52
2	22-C	1	BGC	O3-C3	3.13	1.50	1.43
2	16-C	6	BGC	C4-C3	-3.13	1.44	1.52
3	22-F	4	BGC	O5-C1	3.12	1.48	1.43
2	5-C	1	BGC	O3-C3	3.12	1.50	1.43
2	13-C	1	BGC	O1-C1	-3.12	1.29	1.39
2	18-C	5	BGC	O3-C3	3.12	1.50	1.43
2	3-C	5	BGC	O3-C3	3.12	1.50	1.43
2	22-C	5	BGC	O3-C3	3.12	1.50	1.43
3	7-F	4	BGC	C2-C3	-3.11	1.47	1.52
2	22-E	5	BGC	C2-C3	-3.11	1.47	1.52
3	15-F	1	BGC	C3-C2	-3.11	1.44	1.52
3	15-D	4	BGC	C2-C3	-3.11	1.47	1.52
2	11-C	1	BGC	C3-C2	-3.11	1.44	1.52
2	23-E	3	BGC	C2-C3	-3.10	1.47	1.52
2	13-E	3	BGC	C2-C3	-3.10	1.47	1.52
3	17-F	1	BGC	C3-C2	-3.10	1.44	1.52
3	9-D	1	BGC	C3-C2	-3.10	1.44	1.52
2	1-E	1	BGC	C3-C2	-3.09	1.44	1.52
3	18-D	1	BGC	C3-C2	-3.09	1.44	1.52
2	9-E	6	BGC	C2-C3	-3.09	1.48	1.52
2	19-C	1	BGC	O3-C3	3.09	1.50	1.43
2	15-C	1	BGC	O3-C3	3.07	1.50	1.43
2	3-E	2	BGC	C2-C3	-3.07	1.48	1.52
2	12-E	2	BGC	C2-C3	-3.07	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7-D	4	BGC	C2-C3	-3.07	1.48	1.52
2	22-E	6	BGC	C2-C3	-3.06	1.48	1.52
2	23-E	1	BGC	C3-C2	-3.06	1.44	1.52
2	5-E	2	BGC	C4-C3	-3.06	1.44	1.52
2	14-E	6	BGC	C2-C3	-3.06	1.48	1.52
2	10-E	1	BGC	O3-C3	3.06	1.50	1.43
3	6-D	4	BGC	C2-C3	-3.06	1.48	1.52
2	21-C	3	BGC	C2-C3	-3.05	1.48	1.52
2	16-E	1	BGC	C3-C2	-3.05	1.44	1.52
3	8-F	2	BGC	O5-C1	3.05	1.48	1.43
3	3-D	1	BGC	C3-C2	-3.05	1.44	1.52
3	19-D	4	BGC	C2-C3	-3.05	1.48	1.52
3	23-D	1	BGC	C3-C2	-3.05	1.44	1.52
2	7-E	1	BGC	C3-C2	-3.05	1.44	1.52
2	20-E	1	BGC	O3-C3	3.04	1.50	1.43
2	23-E	6	BGC	C2-C3	-3.04	1.48	1.52
3	10-F	4	BGC	O5-C1	3.04	1.48	1.43
2	8-C	2	BGC	C2-C3	-3.04	1.48	1.52
2	4-E	6	BGC	C2-C3	-3.03	1.48	1.52
3	5-D	1	BGC	C3-C2	-3.03	1.44	1.52
2	8-E	2	BGC	C2-C3	-3.03	1.48	1.52
2	13-C	1	BGC	O3-C3	3.03	1.50	1.43
2	18-C	1	BGC	C3-C2	-3.03	1.44	1.52
2	6-C	1	BGC	O3-C3	3.02	1.50	1.43
2	22-E	1	BGC	O3-C3	3.02	1.50	1.43
2	19-C	1	BGC	O1-C1	-3.02	1.30	1.39
2	25-E	3	BGC	C2-C3	-3.01	1.48	1.52
2	3-E	6	BGC	C2-C3	-3.01	1.48	1.52
2	13-C	3	BGC	O3-C3	3.01	1.50	1.43
3	14-D	2	BGC	O5-C1	3.01	1.48	1.43
3	4-F	2	BGC	O5-C1	3.01	1.48	1.43
2	2-C	6	BGC	C4-C3	-3.01	1.44	1.52
2	4-C	6	BGC	C4-C3	-3.01	1.44	1.52
3	25-F	2	BGC	O5-C1	3.01	1.48	1.43
2	16-E	2	BGC	C2-C3	-3.01	1.48	1.52
3	25-F	3	BGC	C2-C3	-3.00	1.48	1.52
3	2-D	1	BGC	C3-C2	-3.00	1.44	1.52
3	10-F	4	BGC	C2-C3	-3.00	1.48	1.52
3	23-F	2	BGC	O5-C1	2.99	1.48	1.43
2	20-C	1	BGC	C3-C2	-2.99	1.44	1.52
2	1-E	2	BGC	C2-C3	-2.99	1.48	1.52
2	20-C	5	BGC	O3-C3	2.99	1.50	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	19-C	4	BGC	O5-C1	2.99	1.48	1.43
2	22-C	1	BGC	C3-C2	-2.99	1.44	1.52
3	16-D	1	BGC	C3-C2	-2.99	1.44	1.52
2	5-C	1	BGC	O1-C1	-2.99	1.30	1.39
2	23-C	1	BGC	C3-C2	-2.99	1.44	1.52
2	24-E	2	BGC	C4-C3	-2.99	1.44	1.52
2	5-C	1	BGC	C3-C2	-2.98	1.44	1.52
2	12-E	6	BGC	C4-C3	-2.98	1.44	1.52
2	12-E	6	BGC	C2-C3	-2.98	1.48	1.52
3	2-D	4	BGC	C2-C3	-2.98	1.48	1.52
2	1-C	3	BGC	C2-C3	-2.98	1.48	1.52
2	3-C	1	BGC	C3-C2	-2.98	1.44	1.52
3	5-F	1	BGC	C3-C2	-2.98	1.44	1.52
3	23-F	4	BGC	C2-C3	-2.98	1.48	1.52
3	8-D	4	BGC	C2-C3	-2.98	1.48	1.52
2	23-C	2	BGC	C2-C3	-2.98	1.48	1.52
3	13-F	1	BGC	C3-C2	-2.97	1.44	1.52
2	13-C	2	BGC	C2-C3	-2.97	1.48	1.52
2	6-C	6	BGC	C4-C3	-2.97	1.44	1.52
3	7-F	4	BGC	O5-C1	2.97	1.48	1.43
3	5-D	4	BGC	C2-C3	-2.97	1.48	1.52
3	22-D	1	BGC	C3-C2	-2.96	1.44	1.52
2	2-E	1	BGC	C3-C2	-2.96	1.44	1.52
2	22-E	1	BGC	C3-C2	-2.96	1.44	1.52
2	5-C	2	BGC	C2-C3	-2.95	1.48	1.52
2	24-C	1	BGC	O3-C3	2.95	1.49	1.43
3	4-F	1	BGC	C3-C2	-2.95	1.44	1.52
3	13-F	4	BGC	O5-C1	2.95	1.48	1.43
2	8-C	1	BGC	C3-C2	-2.95	1.44	1.52
2	10-E	3	BGC	C2-C3	-2.95	1.48	1.52
2	24-E	6	BGC	C2-C3	-2.95	1.48	1.52
2	7-C	1	BGC	O3-C3	2.94	1.49	1.43
2	14-E	2	BGC	C4-C3	-2.94	1.44	1.52
3	19-F	1	BGC	C3-C2	-2.94	1.44	1.52
3	4-F	3	BGC	C2-C3	-2.94	1.48	1.52
3	6-D	1	BGC	C3-C2	-2.94	1.44	1.52
3	17-D	1	BGC	C3-C2	-2.93	1.44	1.52
3	22-F	1	BGC	C3-C2	-2.93	1.44	1.52
2	7-C	1	BGC	O1-C1	-2.93	1.30	1.39
2	21-C	2	BGC	C4-C3	-2.93	1.44	1.52
2	8-E	3	BGC	C2-C3	-2.93	1.48	1.52
2	13-E	6	BGC	C2-C3	-2.92	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	17-E	6	BGC	O6-C6	-2.92	1.30	1.42
2	8-E	5	BGC	C2-C3	-2.92	1.48	1.52
2	2-C	1	BGC	C3-C2	-2.92	1.44	1.52
3	12-D	1	BGC	C3-C2	-2.92	1.44	1.52
2	16-E	6	BGC	C2-C3	-2.91	1.48	1.52
2	18-C	3	BGC	C2-C3	-2.91	1.48	1.52
2	19-E	2	BGC	C2-C3	-2.91	1.48	1.52
2	17-C	1	BGC	C3-C2	-2.91	1.44	1.52
2	21-E	3	BGC	C2-C3	-2.91	1.48	1.52
2	19-E	1	BGC	C3-C2	-2.91	1.44	1.52
3	20-D	2	BGC	O5-C1	2.91	1.48	1.43
2	25-C	5	BGC	O3-C3	2.91	1.49	1.43
2	12-C	1	BGC	O1-C1	-2.91	1.30	1.39
3	21-D	1	BGC	C3-C2	-2.90	1.44	1.52
3	14-D	1	BGC	C3-C2	-2.90	1.44	1.52
2	16-C	6	BGC	C2-C3	-2.90	1.48	1.52
2	5-C	3	BGC	C2-C3	-2.90	1.48	1.52
2	1-E	3	BGC	C2-C3	-2.90	1.48	1.52
2	8-C	4	BGC	O5-C1	2.90	1.48	1.43
2	18-E	1	BGC	C3-C2	-2.90	1.45	1.52
2	23-C	1	BGC	O1-C1	-2.90	1.30	1.39
2	9-E	2	BGC	C2-C3	-2.89	1.48	1.52
2	6-C	1	BGC	C3-C2	-2.89	1.45	1.52
3	12-D	2	BGC	O5-C1	2.89	1.48	1.43
2	9-C	1	BGC	O1-C1	-2.89	1.30	1.39
3	14-F	1	BGC	C3-C2	-2.89	1.45	1.52
2	15-E	1	BGC	O3-C3	2.88	1.49	1.43
3	24-D	1	BGC	C3-C2	-2.88	1.45	1.52
2	21-E	1	BGC	O3-C3	2.88	1.49	1.43
2	17-E	2	BGC	C2-C3	-2.88	1.48	1.52
2	24-E	5	BGC	C2-C3	-2.88	1.48	1.52
2	17-E	1	BGC	C3-C2	-2.88	1.45	1.52
3	2-F	1	BGC	C3-C2	-2.88	1.45	1.52
3	13-D	1	BGC	C3-C2	-2.88	1.45	1.52
3	10-F	1	BGC	C3-C2	-2.88	1.45	1.52
3	13-D	3	BGC	C2-C3	-2.87	1.48	1.52
3	5-F	4	BGC	C2-C3	-2.87	1.48	1.52
2	22-C	2	BGC	C2-C3	-2.87	1.48	1.52
3	12-D	3	BGC	C2-C3	-2.87	1.48	1.52
2	4-E	1	BGC	O3-C3	2.87	1.49	1.43
3	13-F	3	BGC	C2-C3	-2.87	1.48	1.52
2	2-E	6	BGC	C2-C3	-2.86	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1-C	1	BGC	C3-C2	-2.86	1.45	1.52
2	25-C	1	BGC	C3-C2	-2.86	1.45	1.52
2	19-C	6	BGC	C4-C3	-2.86	1.45	1.52
3	12-F	4	BGC	C2-C3	-2.86	1.48	1.52
2	10-C	1	BGC	C3-C2	-2.86	1.45	1.52
3	18-F	1	BGC	C3-C2	-2.86	1.45	1.52
2	17-E	5	BGC	C2-C3	-2.86	1.48	1.52
3	1-D	2	BGC	O5-C1	2.86	1.48	1.43
3	4-D	1	BGC	C3-C2	-2.86	1.45	1.52
2	9-C	3	BGC	C2-C3	-2.86	1.48	1.52
2	19-E	1	BGC	O3-C3	2.85	1.49	1.43
2	23-E	2	BGC	C2-C3	-2.85	1.48	1.52
2	11-C	3	BGC	C2-C3	-2.85	1.48	1.52
3	10-D	1	BGC	C3-C2	-2.85	1.45	1.52
2	9-C	5	BGC	O3-C3	2.85	1.49	1.43
2	1-C	6	BGC	C4-C3	-2.85	1.45	1.52
3	19-D	1	BGC	C3-C2	-2.84	1.45	1.52
2	15-C	1	BGC	O1-C1	-2.84	1.30	1.39
3	18-D	4	BGC	C2-C3	-2.84	1.48	1.52
3	25-D	1	BGC	C3-C2	-2.84	1.45	1.52
2	4-C	2	BGC	C2-C3	-2.83	1.48	1.52
2	9-E	3	BGC	C2-C3	-2.83	1.48	1.52
2	14-C	6	BGC	C4-C3	-2.83	1.45	1.52
3	11-F	1	BGC	C3-C2	-2.83	1.45	1.52
2	15-E	1	BGC	C3-C2	-2.83	1.45	1.52
2	18-E	2	BGC	C2-C3	-2.83	1.48	1.52
2	5-E	6	BGC	C2-C3	-2.83	1.48	1.52
3	8-F	4	BGC	C2-C3	-2.82	1.48	1.52
2	14-E	1	BGC	O1-C1	-2.82	1.30	1.39
3	3-D	3	BGC	C2-C3	-2.82	1.48	1.52
2	23-C	5	BGC	O3-C3	2.82	1.49	1.43
3	3-D	4	BGC	C2-C3	-2.82	1.48	1.52
2	25-E	2	BGC	C4-C3	-2.81	1.45	1.52
2	11-E	6	BGC	C4-C3	-2.81	1.45	1.52
3	22-F	2	BGC	O5-C1	2.81	1.48	1.43
2	3-E	6	BGC	C4-C3	-2.81	1.45	1.52
2	25-C	3	BGC	C2-C3	-2.80	1.48	1.52
3	8-D	2	BGC	O5-C1	2.80	1.48	1.43
3	16-D	2	BGC	O5-C1	2.79	1.48	1.43
2	23-C	2	BGC	O3-C3	2.79	1.49	1.43
3	24-F	1	BGC	C3-C2	-2.79	1.45	1.52
2	5-E	6	BGC	C4-C3	-2.79	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	20-C	2	BGC	C2-C3	-2.79	1.48	1.52
3	15-F	3	BGC	C2-C3	-2.79	1.48	1.52
2	10-C	3	BGC	C2-C3	-2.78	1.48	1.52
2	14-C	3	BGC	C2-C3	-2.78	1.48	1.52
2	20-E	5	BGC	C2-C3	-2.78	1.48	1.52
2	12-C	5	BGC	O3-C3	2.78	1.49	1.43
2	1-C	5	BGC	O3-C3	2.78	1.49	1.43
3	4-D	2	BGC	O5-C1	2.78	1.48	1.43
2	25-E	6	BGC	C4-C3	-2.78	1.45	1.52
3	5-F	4	BGC	O5-C1	2.78	1.48	1.43
2	21-E	1	BGC	O1-C1	-2.78	1.30	1.39
2	1-C	2	BGC	C2-C3	-2.78	1.48	1.52
3	8-F	3	BGC	C2-C3	-2.78	1.48	1.52
2	17-C	6	BGC	C4-C3	-2.77	1.45	1.52
3	7-D	2	BGC	O5-C1	2.77	1.48	1.43
3	11-F	3	BGC	C2-C3	-2.77	1.48	1.52
2	11-E	6	BGC	C2-C3	-2.77	1.48	1.52
3	22-D	4	BGC	C2-C3	-2.77	1.48	1.52
3	15-F	4	BGC	C2-C3	-2.77	1.48	1.52
2	9-E	6	BGC	C4-C3	-2.76	1.45	1.52
2	3-C	6	BGC	C4-C3	-2.76	1.45	1.52
2	3-C	2	BGC	C2-C3	-2.76	1.48	1.52
2	20-E	6	BGC	C4-C3	-2.76	1.45	1.52
2	2-E	6	BGC	C4-C3	-2.76	1.45	1.52
2	9-C	2	BGC	C2-C3	-2.76	1.48	1.52
2	6-C	5	BGC	O3-C3	2.76	1.49	1.43
2	14-E	6	BGC	C4-C3	-2.76	1.45	1.52
2	15-E	5	BGC	O3-C3	2.76	1.49	1.43
2	17-E	1	BGC	O3-C3	2.76	1.49	1.43
2	7-C	6	BGC	C4-C3	-2.76	1.45	1.52
3	10-D	4	BGC	C2-C3	-2.75	1.48	1.52
2	13-E	6	BGC	C4-C3	-2.75	1.45	1.52
2	9-E	1	BGC	O1-C1	-2.75	1.30	1.39
2	19-C	2	BGC	C2-C3	-2.75	1.48	1.52
2	4-E	3	BGC	C2-C3	-2.75	1.48	1.52
3	14-F	3	BGC	C2-C3	-2.75	1.48	1.52
3	1-D	1	BGC	C3-C2	-2.75	1.45	1.52
2	15-C	5	BGC	O3-C3	2.75	1.49	1.43
2	4-C	6	BGC	O3-C3	2.74	1.49	1.43
3	9-D	4	BGC	C2-C3	-2.74	1.48	1.52
2	11-E	1	BGC	O3-C3	2.74	1.49	1.43
2	7-E	6	BGC	C4-C3	-2.73	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	20-F	4	BGC	O5-C1	2.73	1.48	1.43
2	9-C	6	BGC	C4-C3	-2.73	1.45	1.52
2	3-E	2	BGC	C4-C3	-2.73	1.45	1.52
2	4-E	6	BGC	C4-C3	-2.73	1.45	1.52
2	19-E	5	BGC	O3-C3	2.73	1.49	1.43
2	7-E	1	BGC	O3-C3	2.73	1.49	1.43
3	21-F	1	BGC	C3-C2	-2.73	1.45	1.52
2	16-E	2	BGC	C4-C3	-2.72	1.45	1.52
2	18-E	1	BGC	O3-C3	2.72	1.49	1.43
2	7-E	2	BGC	C2-C3	-2.72	1.48	1.52
2	11-E	3	BGC	C2-C3	-2.72	1.48	1.52
3	20-F	4	BGC	C2-C3	-2.72	1.48	1.52
3	17-D	2	BGC	O5-C1	2.72	1.48	1.43
2	15-C	3	BGC	C2-C3	-2.72	1.48	1.52
3	8-F	1	BGC	C3-C2	-2.72	1.45	1.52
3	16-D	4	BGC	C2-C3	-2.72	1.48	1.52
2	13-E	1	BGC	O3-C3	2.72	1.49	1.43
2	23-E	1	BGC	O3-C3	2.72	1.49	1.43
2	5-C	5	BGC	O3-C3	2.72	1.49	1.43
3	19-D	3	BGC	O3-C3	2.71	1.49	1.43
3	24-F	4	BGC	C2-C3	-2.71	1.48	1.52
2	12-C	2	BGC	C2-C3	-2.71	1.48	1.52
2	23-E	6	BGC	C4-C3	-2.71	1.45	1.52
2	10-E	2	BGC	C4-C3	-2.70	1.45	1.52
2	1-E	2	BGC	C4-C3	-2.70	1.45	1.52
2	2-C	3	BGC	C2-C3	-2.70	1.48	1.52
2	4-C	1	BGC	O1-C1	-2.70	1.31	1.39
3	7-D	1	BGC	C3-C2	-2.70	1.45	1.52
2	3-E	1	BGC	C3-C2	-2.70	1.45	1.52
3	19-F	4	BGC	O5-C1	2.70	1.48	1.43
2	11-C	2	BGC	C2-C3	-2.70	1.48	1.52
3	6-F	1	BGC	C3-C2	-2.70	1.45	1.52
2	12-C	6	BGC	C4-C3	-2.70	1.45	1.52
2	16-C	2	BGC	C2-C3	-2.69	1.48	1.52
3	20-F	1	BGC	O3-C3	2.69	1.49	1.43
2	10-C	1	BGC	O1-C1	-2.69	1.31	1.39
2	5-E	3	BGC	C2-C3	-2.69	1.48	1.52
2	24-C	1	BGC	O1-C1	-2.69	1.31	1.39
2	15-C	6	BGC	C4-C3	-2.69	1.45	1.52
3	11-D	1	BGC	C3-C2	-2.69	1.45	1.52
2	25-C	2	BGC	O3-C3	2.69	1.49	1.43
2	8-C	3	BGC	O3-C3	2.69	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	7-E	6	BGC	C2-C3	-2.69	1.48	1.52
3	15-D	3	BGC	C2-C3	-2.69	1.48	1.52
2	11-C	2	BGC	O3-C3	2.69	1.49	1.43
2	6-C	3	BGC	C2-C3	-2.68	1.48	1.52
2	6-E	6	BGC	C4-C3	-2.68	1.45	1.52
2	24-C	1	BGC	C3-C2	-2.68	1.45	1.52
2	22-E	6	BGC	C4-C3	-2.68	1.45	1.52
2	13-C	5	BGC	O3-C3	2.68	1.49	1.43
3	9-F	1	BGC	C3-C2	-2.67	1.45	1.52
3	6-F	4	BGC	C2-C3	-2.67	1.48	1.52
2	14-E	3	BGC	C2-C3	-2.67	1.48	1.52
2	17-C	1	BGC	O1-C1	-2.67	1.31	1.39
2	8-C	1	BGC	O1-C1	-2.67	1.31	1.39
2	25-C	2	BGC	C2-C3	-2.67	1.48	1.52
2	24-C	6	BGC	C2-C3	-2.67	1.48	1.52
2	16-E	6	BGC	C4-C3	-2.67	1.45	1.52
2	11-C	5	BGC	O3-C3	2.66	1.49	1.43
2	12-E	5	BGC	O3-C3	2.66	1.49	1.43
2	21-E	2	BGC	C4-C3	-2.66	1.45	1.52
2	24-E	3	BGC	C2-C3	-2.66	1.48	1.52
2	10-C	2	BGC	C2-C3	-2.66	1.48	1.52
2	13-E	2	BGC	C2-C3	-2.66	1.48	1.52
2	12-E	1	BGC	O1-C1	-2.66	1.31	1.39
2	6-C	1	BGC	O1-C1	-2.66	1.31	1.39
3	22-F	4	BGC	C2-C3	-2.65	1.48	1.52
2	14-C	5	BGC	O3-C3	2.65	1.49	1.43
2	18-C	1	BGC	O1-C1	-2.65	1.31	1.39
2	19-C	3	BGC	O3-C3	2.65	1.49	1.43
2	1-E	1	BGC	O3-C3	2.65	1.49	1.43
3	14-D	3	BGC	C2-C3	-2.65	1.48	1.52
2	18-E	3	BGC	C2-C3	-2.65	1.48	1.52
2	1-E	6	BGC	C4-C3	-2.65	1.45	1.52
3	5-D	2	BGC	O5-C1	2.64	1.47	1.43
3	8-D	1	BGC	C3-C2	-2.64	1.45	1.52
2	2-C	3	BGC	O3-C3	2.64	1.49	1.43
3	3-F	1	BGC	C3-C2	-2.64	1.45	1.52
3	8-D	3	BGC	C2-C3	-2.64	1.48	1.52
2	15-E	6	BGC	C4-C3	-2.64	1.45	1.52
2	16-C	1	BGC	O1-C1	-2.64	1.31	1.39
3	4-F	4	BGC	O5-C1	2.64	1.47	1.43
3	14-F	4	BGC	C2-C3	-2.63	1.48	1.52
2	21-C	5	BGC	O3-C3	2.63	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	21-C	1	BGC	O1-C1	-2.63	1.31	1.39
2	15-E	5	BGC	C2-C3	-2.63	1.48	1.52
2	20-C	1	BGC	O1-C1	-2.63	1.31	1.39
3	1-D	3	BGC	C2-C3	-2.63	1.48	1.52
3	5-F	3	BGC	C2-C3	-2.63	1.48	1.52
2	16-E	1	BGC	O3-C3	2.63	1.49	1.43
2	20-E	3	BGC	C2-C3	-2.62	1.48	1.52
3	4-D	3	BGC	C2-C3	-2.62	1.48	1.52
2	21-E	5	BGC	C2-C3	-2.62	1.48	1.52
2	11-E	2	BGC	C4-C3	-2.62	1.45	1.52
3	24-D	3	BGC	C2-C3	-2.62	1.48	1.52
2	8-E	1	BGC	O1-C1	-2.62	1.31	1.39
3	23-F	4	BGC	O5-C1	2.61	1.47	1.43
2	1-E	6	BGC	C2-C3	-2.61	1.48	1.52
2	18-C	6	BGC	C4-C3	-2.61	1.45	1.52
2	3-C	1	BGC	O1-C1	-2.61	1.31	1.39
3	20-D	1	BGC	C3-C2	-2.61	1.45	1.52
2	12-E	1	BGC	O3-C3	2.61	1.49	1.43
2	3-E	4	BGC	C2-C3	-2.61	1.48	1.52
2	12-C	6	BGC	O3-C3	2.61	1.49	1.43
2	20-C	3	BGC	C2-C3	-2.60	1.48	1.52
2	20-E	2	BGC	C4-C3	-2.60	1.45	1.52
2	9-C	2	BGC	O3-C3	2.60	1.49	1.43
3	22-F	3	BGC	C2-C3	-2.60	1.48	1.52
2	14-C	1	BGC	O1-C1	-2.59	1.31	1.39
2	14-E	1	BGC	O3-C3	2.59	1.49	1.43
2	12-E	3	BGC	C2-C3	-2.59	1.48	1.52
2	14-C	2	BGC	C2-C3	-2.59	1.48	1.52
3	25-F	4	BGC	C2-C3	-2.59	1.48	1.52
2	15-E	1	BGC	O1-C1	-2.59	1.31	1.39
3	3-F	4	BGC	O5-C1	2.59	1.47	1.43
2	8-E	6	BGC	C4-C3	-2.58	1.45	1.52
3	15-D	1	BGC	O3-C3	2.58	1.49	1.43
2	25-E	6	BGC	C2-C3	-2.58	1.48	1.52
2	18-C	6	BGC	C2-C3	-2.58	1.48	1.52
3	25-F	1	BGC	C3-C2	-2.58	1.45	1.52
3	16-D	3	BGC	O3-C3	2.58	1.49	1.43
2	19-E	6	BGC	C2-C3	-2.58	1.48	1.52
2	22-C	3	BGC	C2-C3	-2.57	1.48	1.52
2	12-E	5	BGC	C2-C3	-2.57	1.48	1.52
2	1-E	5	BGC	O3-C3	2.57	1.49	1.43
3	21-F	3	BGC	C2-C3	-2.57	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	16-C	5	BGC	O3-C3	2.57	1.49	1.43
3	16-F	1	BGC	C3-C2	-2.57	1.45	1.52
2	20-C	6	BGC	C4-C3	-2.57	1.45	1.52
2	24-E	1	BGC	O3-C3	2.57	1.49	1.43
3	22-D	2	BGC	O5-C1	2.57	1.47	1.43
2	6-E	6	BGC	C2-C3	-2.57	1.48	1.52
3	12-F	1	BGC	C3-C2	-2.57	1.45	1.52
2	11-E	1	BGC	O1-C1	-2.57	1.31	1.39
2	18-E	2	BGC	C4-C3	-2.56	1.45	1.52
3	18-F	4	BGC	O5-C1	2.56	1.47	1.43
3	17-F	4	BGC	C2-C3	-2.56	1.48	1.52
2	19-E	2	BGC	C4-C3	-2.56	1.45	1.52
2	18-E	6	BGC	C4-C3	-2.56	1.45	1.52
3	24-F	3	BGC	C2-C3	-2.56	1.48	1.52
3	21-F	4	BGC	O5-C1	2.56	1.47	1.43
2	6-E	5	BGC	C2-C3	-2.56	1.48	1.52
3	1-F	1	BGC	C3-C2	-2.56	1.45	1.52
2	22-C	1	BGC	O1-C1	-2.56	1.31	1.39
3	23-D	2	BGC	O5-C1	2.56	1.47	1.43
2	6-E	1	BGC	O1-C1	-2.55	1.31	1.39
2	11-C	1	BGC	O1-C1	-2.55	1.31	1.39
3	18-D	3	BGC	C2-C3	-2.55	1.48	1.52
2	6-E	2	BGC	C4-C3	-2.55	1.45	1.52
2	7-C	5	BGC	O3-C3	2.55	1.49	1.43
3	8-F	4	BGC	O5-C1	2.55	1.47	1.43
2	1-E	5	BGC	C2-C3	-2.55	1.48	1.52
2	2-E	5	BGC	C2-C3	-2.55	1.48	1.52
2	6-E	1	BGC	O3-C3	2.55	1.49	1.43
2	5-E	1	BGC	O3-C3	2.55	1.49	1.43
3	19-D	2	BGC	O5-C1	2.55	1.47	1.43
2	2-E	5	BGC	O3-C3	2.54	1.49	1.43
3	18-F	4	BGC	C2-C3	-2.54	1.48	1.52
2	14-C	3	BGC	O3-C3	2.54	1.49	1.43
2	5-E	5	BGC	C2-C3	-2.54	1.48	1.52
2	21-C	3	BGC	O3-C3	2.53	1.48	1.43
2	7-E	2	BGC	C4-C3	-2.53	1.45	1.52
2	19-C	3	BGC	C2-C3	-2.53	1.48	1.52
2	14-C	2	BGC	O3-C3	2.53	1.48	1.43
2	17-C	2	BGC	C2-C3	-2.53	1.48	1.52
2	12-E	5	BGC	O5-C1	2.53	1.47	1.43
2	21-E	6	BGC	C4-C3	-2.52	1.45	1.52
2	8-C	6	BGC	C2-C3	-2.52	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	25-D	3	BGC	C2-C3	-2.52	1.48	1.52
2	17-C	5	BGC	O3-C3	2.52	1.48	1.43
2	24-C	6	BGC	C4-C3	-2.52	1.45	1.52
3	9-D	3	BGC	O3-C3	2.52	1.48	1.43
3	18-F	1	BGC	O3-C3	2.52	1.48	1.43
2	20-E	6	BGC	C2-C3	-2.52	1.48	1.52
3	10-D	2	BGC	O5-C1	2.52	1.47	1.43
3	25-F	1	BGC	O3-C3	2.52	1.48	1.43
2	18-C	2	BGC	C4-C3	-2.51	1.45	1.52
2	23-C	3	BGC	C2-C3	-2.51	1.48	1.52
2	15-C	2	BGC	O3-C3	2.51	1.48	1.43
2	19-C	2	BGC	O3-C3	2.51	1.48	1.43
2	10-E	6	BGC	C4-C3	-2.51	1.45	1.52
2	10-C	6	BGC	C4-C3	-2.51	1.45	1.52
3	2-D	3	BGC	O3-C3	2.51	1.48	1.43
2	8-E	1	BGC	O3-C3	2.51	1.48	1.43
2	5-C	2	BGC	C4-C3	-2.51	1.45	1.52
2	8-E	5	BGC	O3-C3	2.50	1.48	1.43
3	19-D	4	BGC	O5-C1	2.50	1.47	1.43
2	25-E	5	BGC	C2-C3	-2.50	1.48	1.52
2	23-C	6	BGC	C2-C3	-2.50	1.48	1.52
2	11-C	6	BGC	C4-C3	-2.50	1.46	1.52
3	19-F	4	BGC	C2-C3	-2.50	1.48	1.52
3	12-F	4	BGC	O5-C1	2.50	1.47	1.43
2	25-C	1	BGC	O1-C1	-2.50	1.31	1.39
2	15-C	3	BGC	O3-C3	2.49	1.48	1.43
2	19-C	5	BGC	O3-C3	2.49	1.48	1.43
3	20-F	1	BGC	C3-C2	-2.49	1.46	1.52
2	17-C	2	BGC	O3-C3	2.49	1.48	1.43
2	10-E	5	BGC	C2-C3	-2.49	1.48	1.52
2	13-E	1	BGC	O1-C1	-2.49	1.31	1.39
2	7-E	3	BGC	C2-C3	-2.49	1.48	1.52
2	21-C	6	BGC	C4-C3	-2.49	1.46	1.52
2	7-E	5	BGC	O3-C3	2.48	1.48	1.43
3	21-D	1	BGC	O3-C3	2.48	1.48	1.43
2	24-E	5	BGC	O3-C3	2.48	1.48	1.43
2	9-E	5	BGC	O3-C3	2.48	1.48	1.43
2	3-C	2	BGC	O3-C3	2.48	1.48	1.43
3	7-F	3	BGC	C2-C3	-2.48	1.48	1.52
3	10-D	3	BGC	C2-C3	-2.48	1.48	1.52
2	7-E	1	BGC	O1-C1	-2.48	1.31	1.39
2	24-C	5	BGC	O3-C3	2.48	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	10-E	1	BGC	O1-C1	-2.47	1.31	1.39
2	6-C	2	BGC	C2-C3	-2.47	1.48	1.52
2	24-C	2	BGC	O3-C3	2.47	1.48	1.43
2	18-E	6	BGC	C2-C3	-2.47	1.48	1.52
3	5-D	3	BGC	C2-C3	-2.47	1.48	1.52
2	2-E	2	BGC	C2-C3	-2.47	1.48	1.52
2	12-C	2	BGC	O3-C3	2.47	1.48	1.43
2	3-E	5	BGC	O3-C3	2.46	1.48	1.43
2	5-E	1	BGC	O1-C1	-2.46	1.31	1.39
2	18-E	5	BGC	C2-C3	-2.46	1.48	1.52
3	3-F	3	BGC	C2-C3	-2.46	1.48	1.52
2	2-E	1	BGC	O1-C1	-2.46	1.31	1.39
2	25-C	6	BGC	C4-C3	-2.46	1.46	1.52
3	18-D	1	BGC	O3-C3	2.46	1.48	1.43
2	4-E	2	BGC	C4-C3	-2.46	1.46	1.52
3	7-F	1	BGC	C3-C2	-2.46	1.46	1.52
2	4-C	2	BGC	C4-C3	-2.45	1.46	1.52
3	17-D	3	BGC	C2-C3	-2.45	1.48	1.52
2	8-E	6	BGC	C2-C3	-2.45	1.48	1.52
2	21-C	2	BGC	O3-C3	2.45	1.48	1.43
3	5-D	3	BGC	O5-C1	2.45	1.47	1.43
3	7-D	3	BGC	O3-C3	2.45	1.48	1.43
3	13-D	2	BGC	O5-C1	2.45	1.47	1.43
3	24-F	4	BGC	O5-C1	2.44	1.47	1.43
3	16-F	4	BGC	C2-C3	-2.44	1.48	1.52
2	1-E	1	BGC	O1-C1	-2.44	1.31	1.39
2	9-E	1	BGC	O3-C3	2.44	1.48	1.43
2	1-C	3	BGC	O3-C3	2.44	1.48	1.43
2	22-E	2	BGC	C4-C3	-2.44	1.46	1.52
2	16-C	3	BGC	O3-C3	2.44	1.48	1.43
2	14-E	2	BGC	O3-C3	2.44	1.48	1.43
2	23-E	5	BGC	C2-C3	-2.44	1.48	1.52
2	23-E	2	BGC	C4-C3	-2.44	1.46	1.52
3	16-D	3	BGC	C2-C3	-2.44	1.48	1.52
2	22-C	6	BGC	O3-C3	2.44	1.48	1.43
2	25-E	5	BGC	O3-C3	2.44	1.48	1.43
2	17-E	2	BGC	C4-C3	-2.43	1.46	1.52
2	13-E	5	BGC	O3-C3	2.43	1.48	1.43
2	23-E	1	BGC	O1-C1	-2.43	1.31	1.39
2	4-E	1	BGC	O1-C1	-2.43	1.31	1.39
2	21-C	6	BGC	C2-C3	-2.43	1.48	1.52
2	6-C	2	BGC	C4-C3	-2.43	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	19-C	6	BGC	C2-C3	-2.43	1.48	1.52
2	6-C	5	BGC	C2-C3	-2.43	1.48	1.52
3	7-D	4	BGC	O5-C1	2.43	1.47	1.43
3	16-F	3	BGC	C2-C3	-2.42	1.48	1.52
2	11-E	4	BGC	C2-C3	-2.42	1.48	1.52
3	17-F	3	BGC	C2-C3	-2.42	1.48	1.52
2	21-E	4	BGC	C2-C3	-2.42	1.48	1.52
3	6-D	3	BGC	C2-C3	-2.42	1.49	1.52
3	9-F	4	BGC	O5-C1	2.42	1.47	1.43
2	2-C	2	BGC	O3-C3	2.42	1.48	1.43
2	16-E	5	BGC	O3-C3	2.42	1.48	1.43
2	5-C	3	BGC	O3-C3	2.42	1.48	1.43
2	24-E	1	BGC	O1-C1	-2.41	1.31	1.39
2	1-C	1	BGC	O1-C1	-2.41	1.31	1.39
2	13-C	2	BGC	O3-C3	2.41	1.48	1.43
3	2-F	4	BGC	C2-C3	-2.41	1.49	1.52
2	5-E	5	BGC	O3-C3	2.41	1.48	1.43
2	10-E	5	BGC	O5-C1	2.41	1.47	1.43
2	10-C	3	BGC	O3-C3	2.40	1.48	1.43
3	25-D	2	BGC	O5-C1	2.40	1.47	1.43
2	22-E	1	BGC	O1-C1	-2.40	1.31	1.39
2	18-C	3	BGC	C4-C3	-2.40	1.46	1.52
2	7-E	5	BGC	C2-C3	-2.40	1.49	1.52
2	2-C	1	BGC	O1-C1	-2.40	1.31	1.39
2	20-E	1	BGC	O1-C1	-2.40	1.31	1.39
2	11-E	5	BGC	O3-C3	2.40	1.48	1.43
2	21-E	5	BGC	O5-C1	2.39	1.47	1.43
2	15-E	2	BGC	C4-C3	-2.39	1.46	1.52
2	7-C	2	BGC	C2-C3	-2.39	1.49	1.52
2	10-C	5	BGC	O3-C3	2.39	1.48	1.43
2	1-C	3	BGC	C4-C3	-2.39	1.46	1.52
2	6-C	3	BGC	O3-C3	2.39	1.48	1.43
3	23-D	3	BGC	C2-C3	-2.38	1.49	1.52
2	14-C	2	BGC	C4-C3	-2.38	1.46	1.52
2	1-E	4	BGC	C2-C3	-2.38	1.49	1.52
3	20-F	3	BGC	C2-C3	-2.38	1.49	1.52
2	2-E	2	BGC	O3-C3	2.38	1.48	1.43
2	2-E	3	BGC	C2-C3	-2.37	1.49	1.52
3	3-F	4	BGC	C2-C3	-2.37	1.49	1.52
2	8-C	6	BGC	C4-C3	-2.37	1.46	1.52
2	9-C	3	BGC	O3-C3	2.37	1.48	1.43
2	4-E	5	BGC	O3-C3	2.37	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-F	3	BGC	C4-C3	-2.37	1.46	1.52
3	1-F	1	BGC	O3-C3	2.37	1.48	1.43
3	21-D	2	BGC	C1-C2	2.36	1.57	1.52
2	20-E	5	BGC	O3-C3	2.36	1.48	1.43
2	19-E	3	BGC	C2-C3	-2.36	1.49	1.52
2	1-C	2	BGC	O3-C3	2.36	1.48	1.43
3	24-D	3	BGC	O3-C3	2.35	1.48	1.43
3	15-F	4	BGC	O5-C1	2.35	1.47	1.43
3	17-F	1	BGC	O3-C3	2.35	1.48	1.43
2	3-E	1	BGC	O1-C1	-2.35	1.32	1.39
2	16-E	1	BGC	O1-C1	-2.35	1.32	1.39
3	1-F	3	BGC	C2-C3	-2.34	1.49	1.52
2	20-C	3	BGC	O3-C3	2.34	1.48	1.43
2	2-E	2	BGC	C4-C3	-2.34	1.46	1.52
3	15-D	4	BGC	O5-C1	2.34	1.47	1.43
3	17-F	4	BGC	O5-C1	2.34	1.47	1.43
2	21-E	5	BGC	O3-C3	2.34	1.48	1.43
2	4-C	2	BGC	O3-C3	2.33	1.48	1.43
3	15-F	1	BGC	O3-C3	2.33	1.48	1.43
3	6-F	4	BGC	O5-C1	2.33	1.47	1.43
2	5-E	4	BGC	C2-C3	-2.33	1.49	1.52
2	18-E	1	BGC	O1-C1	-2.33	1.32	1.39
3	7-D	3	BGC	C2-C3	-2.33	1.49	1.52
2	13-C	4	BGC	O5-C1	2.33	1.47	1.43
3	4-D	4	BGC	O5-C1	2.32	1.47	1.43
2	6-E	5	BGC	O3-C3	2.32	1.48	1.43
2	19-E	5	BGC	C2-C3	-2.32	1.49	1.52
2	18-C	2	BGC	O3-C3	2.32	1.48	1.43
2	2-C	6	BGC	C2-C3	-2.32	1.49	1.52
2	17-C	3	BGC	C4-C3	-2.31	1.46	1.52
3	12-D	2	BGC	C1-C2	2.31	1.57	1.52
2	6-C	2	BGC	O3-C3	2.31	1.48	1.43
2	15-E	2	BGC	O3-C3	2.31	1.48	1.43
3	2-D	3	BGC	C2-C3	-2.31	1.49	1.52
2	12-C	3	BGC	O3-C3	2.31	1.48	1.43
2	10-E	5	BGC	O3-C3	2.31	1.48	1.43
3	9-F	4	BGC	C2-C3	-2.31	1.49	1.52
2	25-E	2	BGC	C2-C3	-2.30	1.49	1.52
2	22-C	2	BGC	O3-C3	2.30	1.48	1.43
2	9-E	2	BGC	O3-C3	2.30	1.48	1.43
3	4-F	4	BGC	C2-C3	-2.30	1.49	1.52
2	8-C	5	BGC	O3-C3	2.29	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	9-F	3	BGC	C2-C3	-2.29	1.49	1.52
3	12-F	1	BGC	O3-C3	2.29	1.48	1.43
2	3-C	3	BGC	O3-C3	2.29	1.48	1.43
2	6-E	4	BGC	C2-C3	-2.29	1.49	1.52
2	23-E	4	BGC	C2-C3	-2.29	1.49	1.52
2	22-C	3	BGC	O3-C3	2.29	1.48	1.43
2	20-C	2	BGC	C4-C3	-2.28	1.46	1.52
3	11-F	1	BGC	O3-C3	2.28	1.48	1.43
2	12-C	2	BGC	C4-C3	-2.28	1.46	1.52
2	17-E	3	BGC	C2-C3	-2.28	1.49	1.52
2	16-C	2	BGC	O3-C3	2.27	1.48	1.43
2	9-C	6	BGC	C2-C3	-2.27	1.49	1.52
2	10-C	2	BGC	O3-C3	2.27	1.48	1.43
2	10-C	3	BGC	C4-C3	-2.27	1.46	1.52
3	6-F	3	BGC	C4-C3	-2.27	1.46	1.52
3	4-D	3	BGC	O5-C1	2.27	1.47	1.43
3	6-F	3	BGC	O5-C1	2.27	1.47	1.43
2	19-C	5	BGC	C2-C3	-2.27	1.49	1.52
3	2-D	4	BGC	O5-C1	2.27	1.47	1.43
2	1-E	2	BGC	O3-C3	2.27	1.48	1.43
2	7-C	5	BGC	C2-C3	-2.26	1.49	1.52
2	10-E	4	BGC	C2-C3	-2.26	1.49	1.52
2	4-C	3	BGC	C4-C3	-2.26	1.46	1.52
2	21-C	4	BGC	O5-C1	2.26	1.47	1.43
2	22-C	2	BGC	C4-C3	-2.26	1.46	1.52
3	6-F	3	BGC	C2-C3	-2.26	1.49	1.52
2	3-C	6	BGC	C2-C3	-2.26	1.49	1.52
2	24-C	2	BGC	C4-C3	-2.26	1.46	1.52
2	3-E	1	BGC	O4-C4	-2.25	1.37	1.43
3	12-D	1	BGC	O3-C3	2.25	1.48	1.43
2	15-E	4	BGC	C2-C3	-2.25	1.49	1.52
2	12-E	2	BGC	C4-C3	-2.25	1.46	1.52
3	21-D	2	BGC	O5-C1	2.25	1.47	1.43
2	13-C	6	BGC	O3-C3	2.25	1.48	1.43
2	14-E	5	BGC	C2-C3	-2.25	1.49	1.52
2	17-E	1	BGC	O1-C1	-2.25	1.32	1.39
2	13-E	2	BGC	C4-C3	-2.25	1.46	1.52
2	1-C	2	BGC	C4-C3	-2.24	1.46	1.52
3	16-F	3	BGC	C4-C3	-2.24	1.46	1.52
3	19-F	3	BGC	C2-C3	-2.24	1.49	1.52
2	15-C	2	BGC	C4-C3	-2.24	1.46	1.52
2	19-E	1	BGC	O1-C1	-2.23	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	7-C	2	BGC	C4-C5	-2.23	1.48	1.53
2	16-C	2	BGC	C4-C3	-2.23	1.46	1.52
3	15-D	3	BGC	O3-C3	2.23	1.48	1.43
2	14-E	5	BGC	O5-C1	2.23	1.47	1.43
2	4-E	5	BGC	C2-C3	-2.23	1.49	1.52
3	3-F	1	BGC	O3-C3	2.23	1.48	1.43
3	3-D	2	BGC	O5-C1	2.23	1.47	1.43
3	23-F	3	BGC	C2-C3	-2.23	1.49	1.52
2	2-C	2	BGC	C4-C3	-2.23	1.46	1.52
3	24-D	4	BGC	O5-C1	2.23	1.47	1.43
3	23-D	1	BGC	O3-C3	2.23	1.48	1.43
2	8-C	2	BGC	O3-C3	2.22	1.48	1.43
3	12-F	3	BGC	C4-C3	-2.22	1.46	1.52
2	22-C	4	BGC	O5-C1	2.22	1.47	1.43
3	11-F	4	BGC	C2-C3	-2.22	1.49	1.52
2	24-E	4	BGC	C2-C3	-2.21	1.49	1.52
2	21-C	3	BGC	C4-C3	-2.21	1.46	1.52
2	14-E	3	BGC	C4-C3	-2.21	1.46	1.52
2	22-E	5	BGC	O3-C3	2.21	1.48	1.43
2	3-E	5	BGC	C2-C3	-2.21	1.49	1.52
2	18-C	2	BGC	C2-C3	-2.21	1.49	1.52
3	19-D	3	BGC	C2-C3	-2.21	1.49	1.52
3	11-D	4	BGC	O5-C1	2.21	1.47	1.43
3	1-F	4	BGC	C2-C3	-2.21	1.49	1.52
2	19-E	2	BGC	O3-C3	2.20	1.48	1.43
2	5-C	2	BGC	O3-C3	2.20	1.48	1.43
3	23-F	1	BGC	O3-C3	2.20	1.48	1.43
2	11-C	2	BGC	C4-C3	-2.20	1.46	1.52
2	20-C	3	BGC	C4-C3	-2.20	1.46	1.52
2	15-E	3	BGC	O3-C3	2.20	1.48	1.43
2	1-C	4	BGC	O5-C1	2.19	1.47	1.43
3	22-F	2	BGC	C6-C5	-2.19	1.44	1.51
2	5-C	6	BGC	C2-C3	-2.19	1.49	1.52
3	9-D	2	BGC	O5-C1	2.19	1.47	1.43
2	18-E	5	BGC	O3-C3	2.19	1.48	1.43
2	20-C	2	BGC	O3-C3	2.19	1.48	1.43
2	22-E	2	BGC	O3-C3	2.19	1.48	1.43
2	10-E	2	BGC	O3-C3	2.19	1.48	1.43
2	11-C	3	BGC	O3-C3	2.19	1.48	1.43
2	17-E	2	BGC	O3-C3	2.19	1.48	1.43
2	25-E	1	BGC	C3-C2	-2.18	1.46	1.52
2	5-E	2	BGC	O3-C3	2.18	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	22-D	3	BGC	C2-C3	-2.18	1.49	1.52
2	7-C	4	BGC	O5-C1	2.18	1.47	1.43
3	13-D	4	BGC	O5-C1	2.18	1.47	1.43
3	1-F	4	BGC	O5-C1	2.18	1.47	1.43
2	25-C	3	BGC	O3-C3	2.18	1.48	1.43
3	18-F	3	BGC	C4-C3	-2.18	1.46	1.52
3	2-F	4	BGC	O5-C1	2.17	1.47	1.43
3	25-F	2	BGC	C1-C2	2.17	1.57	1.52
2	22-E	3	BGC	O3-C3	2.17	1.48	1.43
3	22-D	4	BGC	O5-C1	2.17	1.47	1.43
2	3-E	3	BGC	C4-C3	-2.17	1.46	1.52
2	13-C	2	BGC	C4-C3	-2.17	1.46	1.52
2	20-C	4	BGC	O5-C1	2.17	1.47	1.43
3	15-D	2	BGC	O5-C1	2.17	1.47	1.43
2	21-E	6	BGC	C2-C3	-2.16	1.49	1.52
2	15-E	3	BGC	C2-C3	-2.16	1.49	1.52
3	5-F	1	BGC	O5-C1	2.16	1.48	1.42
2	21-E	6	BGC	O3-C3	2.16	1.48	1.43
2	14-C	3	BGC	C4-C3	-2.16	1.46	1.52
2	20-E	2	BGC	O3-C3	2.16	1.48	1.43
2	3-C	2	BGC	C4-C3	-2.16	1.46	1.52
3	11-D	2	BGC	O5-C1	2.16	1.47	1.43
3	10-F	2	BGC	C6-C5	-2.15	1.44	1.51
2	14-E	5	BGC	O3-C3	2.15	1.48	1.43
2	25-E	2	BGC	O3-C3	2.15	1.48	1.43
2	25-C	2	BGC	C4-C3	-2.15	1.46	1.52
2	8-C	2	BGC	C4-C3	-2.15	1.46	1.52
2	10-C	2	BGC	C4-C3	-2.15	1.46	1.52
3	11-F	3	BGC	C4-C3	-2.15	1.46	1.52
2	11-E	2	BGC	O3-C3	2.15	1.48	1.43
3	17-D	4	BGC	O5-C1	2.15	1.47	1.43
2	9-E	5	BGC	O5-C1	2.15	1.47	1.43
2	11-C	6	BGC	O3-C3	2.15	1.48	1.43
2	6-C	3	BGC	C4-C3	-2.15	1.46	1.52
2	15-C	4	BGC	O5-C1	2.14	1.47	1.43
3	16-F	1	BGC	O3-C3	2.14	1.48	1.43
3	8-F	2	BGC	C6-C5	-2.14	1.44	1.51
3	10-F	3	BGC	C2-C3	-2.14	1.49	1.52
3	14-F	3	BGC	C4-C3	-2.14	1.46	1.52
2	17-E	5	BGC	O3-C3	2.14	1.48	1.43
2	6-E	2	BGC	O3-C3	2.14	1.48	1.43
2	17-C	3	BGC	O3-C3	2.14	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-F	3	BGC	C2-C3	-2.13	1.49	1.52
2	19-E	5	BGC	O5-C1	2.13	1.47	1.43
2	3-C	4	BGC	O5-C1	2.13	1.47	1.43
2	17-C	2	BGC	C4-C3	-2.13	1.46	1.52
3	14-F	2	BGC	C6-C5	-2.13	1.44	1.51
3	10-D	4	BGC	O5-C1	2.13	1.47	1.43
2	5-C	3	BGC	C4-C3	-2.13	1.46	1.52
3	5-F	1	BGC	O3-C3	2.13	1.48	1.43
3	24-F	1	BGC	O3-C3	2.13	1.48	1.43
3	18-F	3	BGC	C2-C3	-2.13	1.49	1.52
2	14-C	4	BGC	O5-C1	2.12	1.47	1.43
2	12-C	3	BGC	C4-C3	-2.12	1.46	1.52
2	24-C	3	BGC	C4-C3	-2.12	1.46	1.52
3	9-F	1	BGC	O3-C3	2.12	1.48	1.43
2	18-E	3	BGC	C4-C3	-2.12	1.46	1.52
3	20-F	2	BGC	O5-C5	2.12	1.47	1.43
2	21-E	2	BGC	O3-C3	2.12	1.48	1.43
3	21-D	4	BGC	O5-C1	2.11	1.47	1.43
3	7-F	2	BGC	C6-C5	-2.11	1.44	1.51
2	4-C	3	BGC	O3-C3	2.11	1.47	1.43
3	25-D	1	BGC	O3-C3	2.11	1.47	1.43
2	10-C	6	BGC	O3-C3	2.11	1.47	1.43
2	25-C	3	BGC	C4-C3	-2.11	1.47	1.52
2	4-E	6	BGC	O3-C3	2.11	1.47	1.43
2	25-E	5	BGC	O5-C1	2.11	1.47	1.43
3	25-F	4	BGC	O5-C1	2.11	1.47	1.43
3	2-F	1	BGC	O3-C3	2.10	1.47	1.43
2	25-E	1	BGC	O1-C1	-2.10	1.32	1.39
2	20-C	6	BGC	O3-C3	2.10	1.47	1.43
3	7-F	3	BGC	C4-C3	-2.10	1.47	1.52
3	2-D	1	BGC	O3-C3	2.10	1.47	1.43
2	7-C	3	BGC	O3-C3	2.10	1.47	1.43
2	16-C	3	BGC	C4-C3	-2.10	1.47	1.52
2	23-C	3	BGC	O3-C3	2.10	1.47	1.43
2	20-C	5	BGC	C2-C3	-2.10	1.49	1.52
3	21-F	4	BGC	C2-C3	-2.10	1.49	1.52
2	12-E	2	BGC	O3-C3	2.10	1.47	1.43
2	11-C	3	BGC	C4-C3	-2.10	1.47	1.52
3	21-D	3	BGC	C2-C3	-2.09	1.49	1.52
3	13-D	3	BGC	O3-C3	2.09	1.47	1.43
2	2-C	2	BGC	C2-C3	-2.09	1.49	1.52
3	23-D	4	BGC	O5-C1	2.09	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1-C	6	BGC	C2-C3	-2.09	1.49	1.52
3	14-F	1	BGC	O3-C3	2.09	1.47	1.43
3	25-F	3	BGC	C4-C3	-2.09	1.47	1.52
3	3-D	3	BGC	O3-C3	2.09	1.47	1.43
3	21-F	2	BGC	C6-C5	-2.09	1.44	1.51
2	7-C	6	BGC	O3-C3	2.09	1.47	1.43
2	15-C	6	BGC	O3-C3	2.08	1.47	1.43
3	21-D	3	BGC	O3-C3	2.08	1.47	1.43
3	21-F	3	BGC	C4-C3	-2.08	1.47	1.52
2	23-C	3	BGC	C4-C3	-2.08	1.47	1.52
2	21-E	3	BGC	O3-C3	2.08	1.47	1.43
2	8-E	4	BGC	C2-C3	-2.08	1.49	1.52
2	13-C	3	BGC	C4-C3	-2.08	1.47	1.52
3	8-F	5	BGC	C4-C5	-2.07	1.48	1.53
2	19-E	3	BGC	O3-C3	2.07	1.47	1.43
3	23-D	3	BGC	O3-C3	2.07	1.47	1.43
3	20-F	3	BGC	C4-C3	-2.07	1.47	1.52
2	6-E	3	BGC	C2-C3	-2.07	1.49	1.52
3	18-D	2	BGC	O5-C1	2.07	1.47	1.43
3	14-D	4	BGC	O5-C1	2.07	1.47	1.43
2	15-E	6	BGC	O3-C3	2.07	1.47	1.43
3	6-D	3	BGC	O3-C3	2.07	1.47	1.43
3	24-D	2	BGC	O5-C1	2.07	1.47	1.43
3	9-F	2	BGC	C6-C5	-2.07	1.44	1.51
3	11-F	2	BGC	C6-C5	-2.07	1.44	1.51
3	16-F	2	BGC	C6-C5	-2.06	1.44	1.51
3	7-F	2	BGC	O5-C5	2.06	1.47	1.43
2	5-C	5	BGC	C2-C3	-2.06	1.49	1.52
2	5-E	3	BGC	O3-C3	2.06	1.47	1.43
2	3-E	3	BGC	O3-C3	2.06	1.47	1.43
2	23-E	5	BGC	O3-C3	2.06	1.47	1.43
2	7-E	6	BGC	O3-C3	2.06	1.47	1.43
2	17-C	6	BGC	C2-C3	-2.06	1.49	1.52
3	25-D	4	BGC	O5-C1	2.06	1.47	1.43
3	10-F	1	BGC	O3-C3	2.06	1.47	1.43
3	12-F	2	BGC	C6-C5	-2.06	1.45	1.51
3	13-F	1	BGC	O3-C3	2.05	1.47	1.43
2	23-E	5	BGC	O5-C1	2.05	1.47	1.43
2	11-E	6	BGC	O3-C3	2.05	1.47	1.43
3	8-D	1	BGC	O3-C3	2.05	1.47	1.43
3	21-F	1	BGC	O3-C3	2.05	1.47	1.43
3	13-F	3	BGC	C4-C3	-2.05	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	7-E	5	BGC	O5-C1	2.04	1.47	1.43
2	10-E	3	BGC	C4-C3	-2.04	1.47	1.52
2	22-C	5	BGC	C2-C3	-2.04	1.49	1.52
3	22-D	3	BGC	O3-C3	2.04	1.47	1.43
2	19-E	6	BGC	C4-C3	-2.04	1.47	1.52
3	25-F	2	BGC	C6-C5	-2.04	1.45	1.51
3	23-F	2	BGC	C6-C5	-2.04	1.45	1.51
2	23-C	2	BGC	C4-C3	-2.04	1.47	1.52
2	9-E	5	BGC	C2-C3	-2.03	1.49	1.52
3	9-D	3	BGC	C2-C3	-2.03	1.49	1.52
2	17-E	3	BGC	O3-C3	2.03	1.47	1.43
2	17-C	6	BGC	O3-C3	2.03	1.47	1.43
2	1-E	6	BGC	O3-C3	2.03	1.47	1.43
2	25-E	4	BGC	C2-C3	-2.03	1.49	1.52
3	8-F	3	BGC	C4-C3	-2.03	1.47	1.52
2	17-C	1	BGC	O5-C1	2.03	1.48	1.42
3	17-F	1	BGC	O5-C1	2.03	1.48	1.42
2	18-C	3	BGC	O3-C3	2.03	1.47	1.43
2	8-E	3	BGC	O3-C3	2.03	1.47	1.43
2	9-C	2	BGC	C4-C3	-2.02	1.47	1.52
2	18-C	5	BGC	C2-C3	-2.02	1.49	1.52
2	19-E	6	BGC	O3-C3	2.02	1.47	1.43
3	20-F	2	BGC	C6-C5	-2.02	1.45	1.51
3	5-F	3	BGC	C4-C3	-2.02	1.47	1.52
2	3-E	2	BGC	O3-C3	2.02	1.47	1.43
2	16-E	3	BGC	O3-C3	2.02	1.47	1.43
3	1-D	4	BGC	O5-C1	2.01	1.46	1.43
2	20-E	6	BGC	O3-C3	2.01	1.47	1.43
3	4-F	3	BGC	C4-C3	-2.01	1.47	1.52
3	10-D	3	BGC	O3-C3	2.01	1.47	1.43
3	15-F	2	BGC	C6-C5	-2.00	1.45	1.51
2	10-C	6	BGC	C2-C3	-2.00	1.49	1.52

All (1223) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-E	4	BGC	O5-C5-C6	-11.51	89.16	107.20
2	7-C	2	BGC	O5-C5-C6	10.11	123.05	107.20
3	1-F	3	BGC	C1-O5-C5	9.37	124.88	112.19
2	7-C	2	BGC	C1-O5-C5	-8.29	100.96	112.19
2	17-E	6	BGC	C6-C5-C4	-8.18	93.84	113.00
2	16-E	6	BGC	C3-C4-C5	-7.29	97.23	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7-C	2	BGC	C3-C4-C5	-7.12	97.54	110.24
2	13-E	5	BGC	O5-C5-C6	-6.77	96.59	107.20
3	8-F	2	BGC	C1-C2-C3	6.77	117.99	109.67
3	6-D	2	BGC	C1-O5-C5	6.75	121.34	112.19
3	13-D	4	BGC	C1-O5-C5	6.75	121.34	112.19
2	1-E	5	BGC	O5-C5-C6	-6.68	96.73	107.20
3	21-D	2	BGC	C1-C2-C3	6.68	117.88	109.67
3	25-F	2	BGC	C1-C2-C3	6.46	117.61	109.67
3	12-D	2	BGC	C1-C2-C3	6.29	117.40	109.67
3	11-F	3	BGC	C1-O5-C5	5.97	120.28	112.19
3	7-D	2	BGC	C1-C2-C3	5.95	116.97	109.67
3	19-D	2	BGC	C1-C2-C3	5.91	116.93	109.67
3	2-F	2	BGC	C1-C2-C3	5.86	116.87	109.67
3	16-D	2	BGC	C1-C2-C3	5.80	116.80	109.67
3	9-D	2	BGC	C1-C2-C3	5.78	116.77	109.67
2	16-E	6	BGC	C1-O5-C5	-5.58	104.64	112.19
3	6-F	2	BGC	C1-C2-C3	5.57	116.51	109.67
3	3-D	2	BGC	C1-C2-C3	5.50	116.42	109.67
3	8-D	2	BGC	C1-C2-C3	5.45	116.37	109.67
3	23-D	2	BGC	C1-C2-C3	5.36	116.25	109.67
2	22-C	5	BGC	C1-C2-C3	5.33	116.22	109.67
2	15-C	2	BGC	O3-C3-C2	-5.26	99.92	109.99
3	3-F	2	BGC	C1-C2-C3	5.24	116.10	109.67
2	9-E	2	BGC	C6-C5-C4	5.23	125.24	113.00
3	2-D	2	BGC	C1-C2-C3	5.21	116.07	109.67
3	25-D	2	BGC	C1-C2-C3	5.20	116.06	109.67
2	8-E	2	BGC	O5-C5-C6	5.19	115.34	107.20
3	10-D	2	BGC	C1-C2-C3	5.19	116.04	109.67
2	13-C	6	BGC	C6-C5-C4	5.09	124.94	113.00
3	1-D	2	BGC	C1-C2-C3	5.07	115.89	109.67
2	13-C	4	BGC	C1-C2-C3	5.05	115.87	109.67
3	20-D	2	BGC	C1-C2-C3	5.02	115.83	109.67
3	5-F	1	BGC	C1-O5-C5	4.98	123.06	113.66
3	4-F	2	BGC	C1-C2-C3	4.98	115.78	109.67
3	20-F	2	BGC	C1-C2-C3	4.97	115.78	109.67
3	18-D	2	BGC	C1-C2-C3	4.97	115.78	109.67
3	15-D	2	BGC	C3-C4-C5	4.97	119.10	110.24
2	16-E	5	BGC	O5-C5-C6	-4.91	99.50	107.20
2	2-C	4	BGC	C1-C2-C3	4.89	115.68	109.67
2	24-C	6	BGC	O5-C5-C6	-4.88	99.55	107.20
2	24-C	6	BGC	C1-O5-C5	4.88	118.80	112.19
3	17-F	1	BGC	C1-O5-C5	4.87	122.84	113.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	3	BGC	C1-O5-C5	4.83	118.74	112.19
2	22-C	6	BGC	C6-C5-C4	4.83	124.31	113.00
2	23-E	4	BGC	C1-C2-C3	4.81	115.58	109.67
3	24-D	2	BGC	C1-C2-C3	4.81	115.58	109.67
3	11-D	5	BGC	C1-O5-C5	4.80	118.69	112.19
3	17-D	2	BGC	C1-O5-C5	-4.79	105.70	112.19
2	18-E	3	BGC	C1-O5-C5	-4.78	105.72	112.19
2	14-C	5	BGC	C1-C2-C3	4.77	115.53	109.67
2	11-C	5	BGC	C1-C2-C3	4.74	115.49	109.67
3	1-F	2	BGC	C1-C2-C3	4.71	115.46	109.67
2	3-C	5	BGC	C1-C2-C3	4.66	115.40	109.67
3	4-D	2	BGC	C1-C2-C3	4.65	115.39	109.67
3	18-F	2	BGC	C1-C2-C3	4.64	115.37	109.67
3	13-D	2	BGC	C1-C2-C3	4.64	115.36	109.67
2	13-C	1	BGC	C4-C3-C2	4.63	118.91	110.82
3	6-F	3	BGC	O5-C5-C6	4.63	114.47	107.20
3	16-F	2	BGC	C1-C2-C3	4.62	115.35	109.67
3	25-F	3	BGC	C1-O5-C5	4.62	118.45	112.19
2	14-E	1	BGC	O5-C1-C2	-4.61	102.06	110.28
3	12-F	2	BGC	C1-C2-C3	4.61	115.33	109.67
2	18-C	5	BGC	C1-C2-C3	4.60	115.32	109.67
3	21-F	2	BGC	C1-C2-C3	4.57	115.28	109.67
2	23-C	4	BGC	C1-C2-C3	4.56	115.27	109.67
3	15-D	3	BGC	C1-O5-C5	4.56	118.36	112.19
3	22-D	2	BGC	C1-C2-C3	4.55	115.26	109.67
2	19-C	2	BGC	O3-C3-C2	-4.54	101.31	109.99
3	25-F	4	BGC	C1-O5-C5	-4.52	106.06	112.19
3	5-D	2	BGC	C1-C2-C3	4.52	115.22	109.67
3	8-D	5	BGC	C1-O5-C5	4.50	118.29	112.19
3	17-D	2	BGC	C1-C2-C3	4.49	115.18	109.67
2	10-C	5	BGC	C1-C2-C3	4.48	115.17	109.67
2	25-E	2	BGC	C1-C2-C3	4.47	115.16	109.67
2	6-C	3	BGC	O5-C1-C2	-4.44	103.91	110.77
3	18-D	3	BGC	C1-O5-C5	4.43	118.19	112.19
2	3-E	4	BGC	C1-C2-C3	4.42	115.10	109.67
2	19-E	2	BGC	C1-C2-C3	4.42	115.10	109.67
3	5-D	3	BGC	C1-O5-C5	4.39	118.14	112.19
3	9-D	3	BGC	C2-C3-C4	4.39	118.49	110.89
2	10-E	6	BGC	O6-C6-C5	4.39	126.34	111.29
2	9-C	2	BGC	O3-C3-C2	-4.39	101.59	109.99
3	5-F	2	BGC	C1-C2-C3	4.38	115.05	109.67
3	7-F	2	BGC	C1-C2-C3	4.38	115.05	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	15-D	2	BGC	C1-C2-C3	4.37	115.04	109.67
3	11-F	2	BGC	C1-C2-C3	4.37	115.04	109.67
2	19-E	6	BGC	O5-C5-C6	-4.35	100.38	107.20
2	23-E	6	BGC	O6-C6-C5	4.35	126.21	111.29
2	13-E	5	BGC	C1-C2-C3	4.34	115.00	109.67
2	11-E	5	BGC	O5-C5-C6	-4.34	100.40	107.20
2	17-C	1	BGC	O2-C2-C3	4.34	120.38	110.35
3	15-F	2	BGC	C1-C2-C3	4.33	114.99	109.67
2	24-C	5	BGC	C1-C2-C3	4.32	114.98	109.67
2	19-E	6	BGC	O5-C5-C4	-4.31	100.34	110.83
2	23-E	3	BGC	C1-O5-C5	-4.31	106.35	112.19
3	14-D	2	BGC	C1-C2-C3	4.31	114.96	109.67
2	3-E	4	BGC	O5-C1-C2	-4.31	104.12	110.77
2	21-C	5	BGC	C1-C2-C3	4.30	114.95	109.67
3	19-F	2	BGC	C1-C2-C3	4.28	114.93	109.67
2	23-E	4	BGC	O3-C3-C2	-4.28	101.80	109.99
2	24-E	5	BGC	O5-C5-C6	-4.27	100.51	107.20
2	16-E	6	BGC	O5-C5-C6	4.27	113.89	107.20
2	6-E	1	BGC	C1-O5-C5	-4.26	105.62	113.66
3	23-D	3	BGC	C1-O5-C5	4.26	117.96	112.19
2	12-E	5	BGC	C6-C5-C4	-4.25	103.06	113.00
2	7-C	2	BGC	C1-C2-C3	4.23	114.87	109.67
2	16-C	5	BGC	C1-C2-C3	4.23	114.87	109.67
2	25-C	6	BGC	O5-C5-C6	-4.23	100.57	107.20
3	24-F	2	BGC	C1-C2-C3	4.23	114.86	109.67
2	21-C	2	BGC	C2-C3-C4	-4.20	103.62	110.89
3	19-D	2	BGC	C1-O5-C5	-4.18	106.53	112.19
3	4-D	3	BGC	C1-C2-C3	4.17	114.79	109.67
2	21-E	4	BGC	C6-C5-C4	-4.17	103.24	113.00
2	8-C	4	BGC	C1-C2-C3	4.16	114.78	109.67
3	14-D	3	BGC	C1-O5-C5	4.13	117.78	112.19
2	3-E	4	BGC	C6-C5-C4	4.12	122.66	113.00
3	23-F	5	BGC	C1-O5-C5	-4.12	106.61	112.19
2	1-C	4	BGC	C1-C2-C3	4.11	114.72	109.67
3	15-D	2	BGC	C1-O5-C5	4.11	117.76	112.19
3	11-D	4	BGC	O6-C6-C5	4.10	125.37	111.29
2	20-C	2	BGC	O3-C3-C2	-4.10	102.14	109.99
3	22-D	1	BGC	O5-C5-C4	4.09	117.12	109.69
2	3-E	2	BGC	C1-C2-C3	4.09	114.69	109.67
2	15-C	5	BGC	C1-C2-C3	4.09	114.69	109.67
3	9-F	2	BGC	C1-C2-C3	4.07	114.67	109.67
3	14-D	4	BGC	C1-O5-C5	4.07	117.71	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-C	5	BGC	C1-C2-C3	4.07	114.67	109.67
2	6-C	5	BGC	C1-C2-C3	4.07	114.67	109.67
3	12-D	3	BGC	C1-C2-C3	4.05	114.64	109.67
2	14-C	3	BGC	O5-C1-C2	-4.04	104.54	110.77
3	13-D	2	BGC	C1-O5-C5	-4.03	106.72	112.19
2	7-C	5	BGC	C1-C2-C3	4.03	114.62	109.67
2	19-E	6	BGC	C6-C5-C4	4.01	122.41	113.00
2	14-C	2	BGC	C1-C2-C3	4.01	114.60	109.67
2	8-C	6	BGC	O4-C4-C3	3.99	119.58	110.35
3	6-D	2	BGC	C2-C3-C4	-3.99	103.99	110.89
2	20-E	3	BGC	C1-O5-C5	-3.99	106.79	112.19
2	21-E	2	BGC	C1-C2-C3	3.99	114.57	109.67
2	6-E	5	BGC	O5-C5-C6	-3.98	100.97	107.20
2	19-C	4	BGC	C1-O5-C5	3.97	117.57	112.19
3	25-D	3	BGC	C1-O5-C5	3.96	117.56	112.19
3	19-D	3	BGC	C3-C4-C5	3.95	117.29	110.24
2	20-E	2	BGC	C1-C2-C3	3.95	114.53	109.67
3	11-D	2	BGC	C1-C2-C3	3.95	114.52	109.67
3	23-F	2	BGC	C1-C2-C3	3.95	114.52	109.67
2	15-E	5	BGC	O5-C5-C6	-3.95	101.01	107.20
2	17-C	5	BGC	C1-C2-C3	3.94	114.51	109.67
2	4-E	6	BGC	O5-C5-C6	-3.94	101.03	107.20
2	23-C	2	BGC	O3-C3-C2	-3.93	102.46	109.99
2	2-E	5	BGC	O5-C5-C6	-3.93	101.05	107.20
3	17-F	2	BGC	C1-C2-C3	3.92	114.48	109.67
2	11-C	2	BGC	C1-C2-C3	3.91	114.47	109.67
2	21-E	1	BGC	C1-O5-C5	-3.90	106.30	113.66
2	15-E	5	BGC	O5-C1-C2	-3.90	104.74	110.77
2	12-E	5	BGC	C1-C2-C3	3.90	114.46	109.67
2	4-C	5	BGC	C1-C2-C3	3.90	114.45	109.67
2	3-C	4	BGC	C1-C2-C3	3.89	114.45	109.67
2	19-C	5	BGC	C1-C2-C3	3.87	114.42	109.67
2	17-C	2	BGC	O3-C3-C2	-3.87	102.59	109.99
2	19-E	5	BGC	C1-C2-C3	3.86	114.41	109.67
2	20-C	2	BGC	O5-C1-C2	-3.86	104.81	110.77
3	6-D	1	BGC	C3-C4-C5	3.86	117.12	110.24
3	22-D	3	BGC	C1-O5-C5	3.85	117.40	112.19
3	19-D	3	BGC	C2-C3-C4	3.84	117.53	110.89
3	25-D	2	BGC	C3-C4-C5	3.84	117.08	110.24
2	3-E	4	BGC	O3-C3-C2	-3.83	102.65	109.99
3	6-D	1	BGC	O5-C5-C4	3.82	116.64	109.69
3	13-F	2	BGC	C1-C2-C3	3.81	114.35	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	18-E	3	BGC	O5-C1-C2	-3.81	104.89	110.77
2	5-E	4	BGC	O3-C3-C2	-3.80	102.71	109.99
2	14-E	5	BGC	C1-C2-C3	3.80	114.34	109.67
3	5-F	2	BGC	O5-C5-C6	3.79	113.15	107.20
2	15-E	4	BGC	C1-C2-C3	3.79	114.33	109.67
2	8-E	4	BGC	C1-C2-C3	3.78	114.32	109.67
2	13-C	3	BGC	O5-C1-C2	-3.78	104.93	110.77
2	11-C	2	BGC	O3-C3-C2	-3.78	102.75	109.99
2	21-E	5	BGC	C1-O5-C5	-3.78	107.07	112.19
3	8-D	3	BGC	C1-O5-C5	3.77	117.30	112.19
2	16-E	3	BGC	C1-O5-C5	-3.77	107.09	112.19
2	3-C	5	BGC	O5-C5-C6	-3.76	101.30	107.20
2	15-E	2	BGC	C1-C2-C3	3.76	114.29	109.67
2	3-C	2	BGC	O3-C3-C2	-3.76	102.79	109.99
2	24-C	6	BGC	O6-C6-C5	3.75	124.16	111.29
3	24-F	3	BGC	C1-O5-C5	3.75	117.27	112.19
3	13-D	5	BGC	C1-O5-C5	-3.75	107.11	112.19
2	5-E	4	BGC	C1-C2-C3	3.75	114.27	109.67
2	9-E	2	BGC	O5-C5-C6	-3.74	101.34	107.20
3	23-F	5	BGC	O5-C5-C4	-3.74	101.74	110.83
3	14-F	2	BGC	C1-C2-C3	3.73	114.26	109.67
2	18-E	4	BGC	C1-C2-C3	3.73	114.25	109.67
2	20-E	5	BGC	O5-C5-C6	-3.72	101.37	107.20
2	5-E	5	BGC	O5-C5-C6	-3.72	101.38	107.20
2	10-E	6	BGC	C1-O5-C5	3.71	117.22	112.19
2	3-C	5	BGC	C6-C5-C4	-3.71	104.31	113.00
3	3-D	3	BGC	C1-O5-C5	3.71	117.22	112.19
2	9-C	6	BGC	C1-C2-C3	3.71	114.22	109.67
2	12-C	5	BGC	C1-C2-C3	3.69	114.20	109.67
2	22-E	4	BGC	O3-C3-C2	-3.69	102.92	109.99
2	24-C	1	BGC	O4-C4-C3	3.69	118.87	110.35
2	22-C	4	BGC	C1-C2-C3	3.68	114.19	109.67
2	9-C	5	BGC	C1-C2-C3	3.68	114.19	109.67
3	13-D	4	BGC	O5-C5-C4	3.68	119.78	110.83
3	7-F	2	BGC	O2-C2-C3	3.67	117.49	110.14
3	19-D	3	BGC	C1-O5-C5	3.67	117.16	112.19
3	10-D	3	BGC	C1-O5-C5	3.67	117.16	112.19
2	23-E	6	BGC	C1-O5-C5	3.66	117.15	112.19
3	11-D	4	BGC	C1-O5-C5	3.66	117.15	112.19
3	22-F	2	BGC	C1-C2-C3	3.65	114.16	109.67
2	20-C	4	BGC	C1-C2-C3	3.65	114.16	109.67
2	2-C	2	BGC	C1-C2-C3	3.65	114.15	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	17-E	5	BGC	O5-C5-C6	-3.64	101.49	107.20
2	3-E	6	BGC	C1-C2-C3	3.64	114.15	109.67
2	20-C	3	BGC	O5-C1-C2	-3.64	105.15	110.77
3	18-D	2	BGC	C3-C4-C5	3.64	116.73	110.24
2	9-E	5	BGC	C1-C2-C3	3.64	114.14	109.67
3	22-D	1	BGC	C3-C4-C5	3.63	116.72	110.24
2	8-E	5	BGC	C1-C2-C3	3.63	114.13	109.67
3	9-F	3	BGC	C1-O5-C5	3.63	117.11	112.19
2	7-C	1	BGC	C1-O5-C5	-3.63	106.82	113.66
2	24-C	4	BGC	C1-C2-C3	3.62	114.11	109.67
2	7-E	2	BGC	C1-C2-C3	3.61	114.10	109.67
2	16-E	5	BGC	O5-C1-C2	-3.60	105.21	110.77
2	2-E	2	BGC	C1-C2-C3	3.60	114.09	109.67
2	9-E	1	BGC	O2-C2-C3	3.60	118.68	110.35
2	24-C	3	BGC	O3-C3-C2	-3.59	103.11	109.99
3	10-F	2	BGC	C1-C2-C3	3.59	114.08	109.67
2	22-C	2	BGC	O3-C3-C2	-3.59	103.11	109.99
2	7-E	5	BGC	O5-C5-C6	-3.59	101.57	107.20
3	8-F	3	BGC	C1-O5-C5	3.59	117.06	112.19
2	5-C	5	BGC	C1-C2-C3	3.59	114.08	109.67
2	8-C	6	BGC	O5-C5-C4	-3.59	102.09	110.83
3	23-F	1	BGC	C3-C4-C5	3.59	116.64	110.24
2	15-C	4	BGC	C1-C2-C3	3.59	114.07	109.67
2	18-C	2	BGC	C1-C2-C3	3.58	114.07	109.67
3	15-D	1	BGC	O3-C3-C4	3.58	118.62	110.35
2	15-E	1	BGC	O5-C5-C4	3.57	116.17	109.69
3	5-D	2	BGC	C3-C4-C5	3.55	116.58	110.24
2	18-E	2	BGC	C1-C2-C3	3.55	114.03	109.67
2	24-E	1	BGC	C4-C3-C2	3.55	117.02	110.82
2	16-E	5	BGC	C1-C2-C3	3.54	114.02	109.67
2	1-E	4	BGC	O3-C3-C2	-3.54	103.22	109.99
2	2-C	2	BGC	O3-C3-C2	-3.53	103.23	109.99
2	25-C	5	BGC	C1-C2-C3	3.53	114.00	109.67
2	22-E	4	BGC	C1-C2-C3	3.53	114.00	109.67
2	1-E	4	BGC	C1-C2-C3	3.52	114.00	109.67
2	25-C	2	BGC	O3-C3-C2	-3.52	103.25	109.99
2	12-C	1	BGC	C1-O5-C5	-3.52	107.02	113.66
3	15-D	5	BGC	C1-O5-C5	3.52	116.96	112.19
2	25-C	3	BGC	O5-C1-C2	-3.51	105.35	110.77
2	13-C	1	BGC	C1-O5-C5	-3.51	107.04	113.66
2	5-C	1	BGC	O2-C2-C3	3.51	118.45	110.35
3	23-D	1	BGC	O5-C5-C4	3.50	116.06	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	13-C	6	BGC	O5-C5-C6	-3.50	101.72	107.20
2	14-C	4	BGC	C1-C2-C3	3.49	113.95	109.67
2	23-C	2	BGC	C1-C2-C3	3.49	113.95	109.67
2	8-C	2	BGC	O3-C3-C2	-3.49	103.32	109.99
3	16-D	3	BGC	C3-C4-C5	3.48	116.45	110.24
2	22-C	3	BGC	O5-C1-C2	-3.47	105.41	110.77
2	19-C	2	BGC	C1-C2-C3	3.46	113.92	109.67
2	5-E	6	BGC	C1-C2-C3	3.45	113.91	109.67
3	25-F	4	BGC	O5-C5-C6	3.45	112.61	107.20
2	8-E	3	BGC	C1-O5-C5	-3.45	107.52	112.19
2	7-C	4	BGC	C1-C2-C3	3.44	113.89	109.67
3	25-F	3	BGC	C1-C2-C3	3.44	113.89	109.67
2	1-C	2	BGC	O3-C3-C2	-3.41	103.46	109.99
2	10-E	4	BGC	C1-C2-C3	3.41	113.86	109.67
2	2-C	3	BGC	O5-C1-C2	-3.41	105.51	110.77
2	22-E	5	BGC	O5-C5-C6	-3.40	101.87	107.20
2	15-E	5	BGC	C1-C2-C3	3.40	113.84	109.67
2	4-C	6	BGC	C6-C5-C4	-3.40	105.05	113.00
2	25-E	4	BGC	C1-O5-C5	-3.39	107.59	112.19
2	7-E	4	BGC	O3-C3-C2	-3.39	103.50	109.99
2	24-C	2	BGC	C1-O5-C5	-3.39	107.61	112.19
3	9-D	3	BGC	C3-C4-C5	3.38	116.28	110.24
2	24-E	4	BGC	O3-C3-C2	-3.38	103.51	109.99
2	5-C	2	BGC	O3-C3-C2	-3.38	103.52	109.99
3	14-F	3	BGC	C1-O5-C5	3.38	116.77	112.19
2	11-E	5	BGC	C1-C2-C3	3.37	113.81	109.67
2	15-E	1	BGC	C1-O5-C5	3.37	120.02	113.66
2	21-C	2	BGC	C1-C2-C3	3.36	113.80	109.67
2	12-C	3	BGC	O5-C1-C2	-3.36	105.58	110.77
3	3-F	3	BGC	C1-O5-C5	3.36	116.75	112.19
2	10-C	2	BGC	O3-C3-C2	-3.36	103.56	109.99
2	16-E	6	BGC	C1-C2-C3	3.35	113.78	109.67
3	16-D	3	BGC	C2-C3-C4	3.35	116.69	110.89
2	13-C	6	BGC	O4-C4-C5	3.35	117.61	109.30
3	18-D	5	BGC	C1-O5-C5	3.35	116.73	112.19
2	20-C	5	BGC	C1-O5-C5	-3.34	107.67	112.19
2	16-E	4	BGC	C1-C2-C3	3.34	113.77	109.67
2	21-C	4	BGC	C1-C2-C3	3.34	113.77	109.67
2	20-C	2	BGC	C1-C2-C3	3.33	113.77	109.67
3	13-D	5	BGC	C3-C4-C5	-3.33	104.29	110.24
2	9-C	2	BGC	C1-C2-C3	3.33	113.76	109.67
2	15-E	3	BGC	O5-C1-C2	-3.33	105.64	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	19-C	1	BGC	O2-C2-C3	3.32	118.02	110.35
2	9-C	4	BGC	C1-C2-C3	3.32	113.74	109.67
2	17-E	2	BGC	C1-C2-C3	3.31	113.73	109.67
3	11-D	4	BGC	O3-C3-C2	3.31	116.33	109.99
2	1-C	5	BGC	C1-C2-C3	3.31	113.73	109.67
3	19-F	2	BGC	C3-C4-C5	3.31	116.14	110.24
2	3-C	2	BGC	C1-C2-C3	3.31	113.73	109.67
2	20-C	5	BGC	C1-C2-C3	3.31	113.73	109.67
2	1-E	3	BGC	O5-C1-C2	-3.30	105.68	110.77
3	11-D	3	BGC	C1-O5-C5	3.29	116.66	112.19
2	18-E	5	BGC	O5-C5-C6	-3.29	102.04	107.20
3	11-D	4	BGC	C2-C3-C4	-3.29	105.20	110.89
2	15-C	3	BGC	O5-C1-C2	-3.29	105.69	110.77
2	21-E	6	BGC	C1-C2-C3	3.29	113.71	109.67
3	23-F	1	BGC	O5-C5-C4	3.29	115.66	109.69
2	3-E	5	BGC	O5-C5-C6	-3.29	102.05	107.20
2	19-C	4	BGC	O3-C3-C2	-3.28	103.71	109.99
2	11-C	3	BGC	O5-C1-C2	-3.27	105.72	110.77
2	7-C	2	BGC	O4-C4-C3	3.27	117.91	110.35
3	21-F	3	BGC	C1-O5-C5	3.26	116.61	112.19
3	22-D	2	BGC	C1-O5-C5	-3.26	107.77	112.19
2	9-C	1	BGC	O3-C3-C4	3.25	117.86	110.35
2	17-C	3	BGC	O5-C1-C2	-3.25	105.76	110.77
3	19-D	3	BGC	C1-C2-C3	3.25	113.66	109.67
2	4-C	6	BGC	O3-C3-C2	3.24	116.21	109.99
2	4-C	3	BGC	O5-C1-C2	-3.24	105.77	110.77
2	23-E	5	BGC	C1-C2-C3	3.24	113.65	109.67
2	2-C	2	BGC	O5-C1-C2	-3.23	105.78	110.77
2	23-C	6	BGC	C1-C2-C3	3.23	113.64	109.67
2	19-C	1	BGC	C1-O5-C5	-3.23	107.56	113.66
3	17-F	2	BGC	O5-C5-C6	3.23	112.26	107.20
3	6-D	3	BGC	C1-O5-C5	3.23	116.56	112.19
2	11-E	3	BGC	O5-C1-C2	-3.22	105.79	110.77
2	2-E	5	BGC	C1-C2-C3	3.22	113.63	109.67
3	13-D	5	BGC	C1-C2-C3	3.22	113.63	109.67
2	20-E	5	BGC	C1-C2-C3	3.22	113.62	109.67
2	20-C	4	BGC	O3-C3-C2	-3.22	103.83	109.99
3	17-F	1	BGC	O5-C5-C4	3.22	115.53	109.69
2	22-C	6	BGC	O5-C5-C4	-3.21	103.02	110.83
3	1-F	3	BGC	C3-C4-C5	3.21	115.96	110.24
2	22-E	2	BGC	C1-C2-C3	3.21	113.61	109.67
3	12-D	3	BGC	C1-O5-C5	3.20	116.53	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5-C	2	BGC	C1-O5-C5	-3.19	107.86	112.19
2	22-C	2	BGC	C1-C2-C3	3.19	113.59	109.67
2	12-C	4	BGC	C1-C2-C3	3.19	113.58	109.67
2	15-C	2	BGC	C1-C2-C3	3.19	113.58	109.67
2	14-C	6	BGC	C1-C2-C3	3.18	113.58	109.67
2	18-C	6	BGC	O6-C6-C5	3.18	122.20	111.29
3	3-D	1	BGC	C1-O5-C5	3.18	119.66	113.66
3	7-D	4	BGC	O5-C5-C6	3.18	112.18	107.20
2	17-C	4	BGC	C1-C2-C3	3.17	113.57	109.67
2	21-E	3	BGC	O3-C3-C2	-3.17	103.92	109.99
2	25-E	5	BGC	C1-C2-C3	3.17	113.56	109.67
2	4-E	4	BGC	C1-C2-C3	3.16	113.56	109.67
2	21-C	3	BGC	O5-C1-C2	-3.16	105.90	110.77
2	8-E	2	BGC	C1-C2-C3	3.15	113.54	109.67
2	6-C	2	BGC	O3-C3-C2	-3.15	103.96	109.99
2	13-C	2	BGC	O3-C3-C2	-3.15	103.97	109.99
3	5-D	3	BGC	O5-C5-C6	3.15	112.14	107.20
3	6-D	5	BGC	O5-C1-C2	-3.15	105.92	110.77
3	6-F	2	BGC	O3-C3-C2	3.14	116.02	109.99
2	4-C	2	BGC	O3-C3-C2	-3.14	103.99	109.99
2	1-E	2	BGC	C1-C2-C3	3.13	113.51	109.67
3	20-F	2	BGC	O5-C5-C6	3.13	112.11	107.20
2	14-E	2	BGC	C1-C2-C3	3.13	113.51	109.67
3	3-D	1	BGC	O5-C5-C4	3.13	115.37	109.69
2	13-C	6	BGC	O5-C5-C4	-3.12	103.25	110.83
2	7-C	4	BGC	O3-C3-C2	-3.12	104.03	109.99
3	6-D	1	BGC	C1-O5-C5	3.11	119.54	113.66
2	24-E	3	BGC	O5-C1-C2	-3.11	105.97	110.77
3	7-D	5	BGC	C1-C2-C3	3.11	113.49	109.67
2	8-C	3	BGC	O3-C3-C2	-3.10	104.05	109.99
2	14-E	1	BGC	O2-C2-C3	3.10	117.52	110.35
2	24-E	6	BGC	C3-C4-C5	-3.10	104.71	110.24
2	16-C	4	BGC	C1-C2-C3	3.10	113.47	109.67
2	7-E	3	BGC	O5-C1-C2	-3.09	106.00	110.77
2	6-C	2	BGC	C1-C2-C3	3.09	113.47	109.67
2	12-C	2	BGC	O3-C3-C2	-3.09	104.07	109.99
2	9-E	1	BGC	O5-C1-C2	-3.09	104.77	110.28
2	4-C	4	BGC	C1-C2-C3	3.09	113.46	109.67
2	4-E	4	BGC	O3-C3-C2	-3.09	104.08	109.99
2	22-C	6	BGC	C1-O5-C5	3.09	116.37	112.19
3	6-D	5	BGC	C1-C2-C3	3.08	113.46	109.67
2	18-C	3	BGC	O5-C1-C2	-3.08	106.01	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	9-C	1	BGC	O5-C1-C2	-3.08	104.79	110.28
2	7-C	3	BGC	O5-C1-C2	-3.08	106.02	110.77
3	19-D	2	BGC	O4-C4-C5	-3.07	101.67	109.30
2	6-C	6	BGC	O3-C3-C4	-3.07	103.25	110.35
2	18-E	4	BGC	O3-C3-C2	-3.07	104.12	109.99
2	17-E	6	BGC	O3-C3-C4	-3.06	103.27	110.35
2	11-C	4	BGC	C1-C2-C3	3.06	113.42	109.67
3	22-D	5	BGC	O2-C2-C1	-3.05	102.90	109.15
2	1-C	1	BGC	C4-C3-C2	3.05	116.16	110.82
3	16-D	4	BGC	C1-C2-C3	3.05	113.42	109.67
2	23-C	4	BGC	O3-C3-C2	-3.05	104.15	109.99
3	11-D	3	BGC	C2-C3-C4	3.05	116.18	110.89
2	21-E	5	BGC	O5-C5-C4	-3.05	103.41	110.83
2	5-C	4	BGC	C1-C2-C3	3.05	113.41	109.67
2	8-E	2	BGC	C1-O5-C5	-3.04	108.07	112.19
2	25-C	4	BGC	C1-C2-C3	3.04	113.40	109.67
2	6-E	4	BGC	O3-C3-C2	-3.04	104.17	109.99
2	12-C	6	BGC	C6-C5-C4	-3.04	105.89	113.00
2	3-C	6	BGC	O5-C5-C6	-3.04	102.44	107.20
2	1-C	6	BGC	C1-O5-C5	3.04	116.31	112.19
3	13-D	3	BGC	C1-O5-C5	3.04	116.31	112.19
2	3-E	5	BGC	C1-C2-C3	3.04	113.40	109.67
2	10-E	6	BGC	C1-C2-C3	3.03	113.40	109.67
2	7-C	1	BGC	O2-C2-C3	3.03	117.36	110.35
2	15-E	6	BGC	C1-C2-C3	3.03	113.39	109.67
2	9-C	3	BGC	O5-C1-C2	-3.03	106.10	110.77
2	18-C	4	BGC	C1-C2-C3	3.02	113.38	109.67
2	21-C	5	BGC	O3-C3-C4	-3.02	103.36	110.35
2	21-C	2	BGC	O5-C5-C4	-3.02	103.49	110.83
3	24-D	4	BGC	C1-O5-C5	3.01	116.28	112.19
2	12-E	1	BGC	O5-C1-C2	-3.01	104.91	110.28
3	7-F	1	BGC	C4-C3-C2	3.01	116.08	110.82
3	18-D	5	BGC	C2-C3-C4	3.01	116.10	110.89
3	18-F	2	BGC	O5-C5-C6	3.01	111.92	107.20
2	18-E	5	BGC	C1-C2-C3	3.00	113.35	109.67
2	19-C	4	BGC	C1-C2-C3	2.99	113.35	109.67
3	6-D	2	BGC	C1-C2-C3	2.99	113.34	109.67
2	8-C	2	BGC	C1-O5-C5	-2.99	108.14	112.19
3	5-F	1	BGC	O5-C5-C4	2.99	115.12	109.69
3	25-D	3	BGC	C1-C2-C3	2.99	113.34	109.67
3	17-F	5	BGC	O5-C1-C2	-2.98	106.17	110.77
2	12-C	1	BGC	O5-C1-C2	-2.98	104.96	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-C	3	BGC	O5-C1-C2	-2.98	106.17	110.77
3	6-D	3	BGC	C2-C3-C4	2.98	116.05	110.89
2	18-C	1	BGC	C1-O5-C5	-2.98	108.05	113.66
2	23-C	1	BGC	O5-C1-C2	-2.97	104.98	110.28
3	19-F	3	BGC	O5-C5-C6	2.97	111.86	107.20
2	25-C	6	BGC	C1-O5-C5	2.97	116.22	112.19
3	3-D	5	BGC	C1-C2-C3	2.96	113.31	109.67
3	8-F	2	BGC	C1-O5-C5	-2.96	108.18	112.19
3	15-D	4	BGC	C1-C2-C3	2.96	113.31	109.67
3	22-D	5	BGC	C1-C2-C3	2.95	113.30	109.67
2	12-E	3	BGC	O5-C1-C2	-2.94	106.23	110.77
2	11-C	2	BGC	O5-C1-C2	-2.94	106.23	110.77
3	11-D	5	BGC	C1-C2-C3	2.94	113.28	109.67
2	5-E	5	BGC	C1-C2-C3	2.94	113.28	109.67
2	22-E	1	BGC	C1-O5-C5	-2.93	108.13	113.66
3	5-F	1	BGC	O5-C1-C2	2.93	115.51	110.28
2	5-C	6	BGC	C1-C2-C3	2.93	113.27	109.67
3	23-D	1	BGC	C3-C4-C5	2.93	115.46	110.24
3	10-D	5	BGC	C1-O5-C5	2.92	116.15	112.19
2	8-E	1	BGC	O2-C2-C3	2.92	117.10	110.35
2	23-C	1	BGC	O2-C2-C3	2.92	117.10	110.35
2	24-C	2	BGC	O3-C3-C2	-2.92	104.41	109.99
2	25-C	2	BGC	C1-C2-C3	2.92	113.25	109.67
3	1-D	5	BGC	C1-C2-C3	2.91	113.25	109.67
2	14-C	2	BGC	O3-C3-C2	-2.91	104.42	109.99
2	8-E	1	BGC	C1-O5-C5	-2.91	108.17	113.66
3	7-D	5	BGC	C2-C3-C4	2.91	115.93	110.89
3	23-D	5	BGC	C1-C2-C3	2.91	113.24	109.67
2	8-E	5	BGC	O5-C5-C6	-2.91	102.65	107.20
3	10-F	3	BGC	C1-O5-C5	2.91	116.13	112.19
2	5-C	1	BGC	O5-C1-C2	-2.90	105.11	110.28
2	14-E	3	BGC	C2-C3-C4	2.90	115.91	110.89
2	24-E	4	BGC	C1-C2-C3	2.89	113.22	109.67
2	23-C	3	BGC	O3-C3-C2	-2.89	104.46	109.99
2	6-E	3	BGC	O5-C1-C2	-2.89	106.32	110.77
3	25-D	2	BGC	O4-C4-C5	-2.89	102.13	109.30
2	2-C	6	BGC	C3-C4-C5	-2.88	105.09	110.24
2	17-C	6	BGC	C1-C2-C3	2.88	113.21	109.67
3	6-F	3	BGC	C1-C2-C3	2.88	113.21	109.67
2	7-E	5	BGC	C1-C2-C3	2.88	113.20	109.67
2	22-E	3	BGC	O5-C1-C2	-2.88	106.33	110.77
2	1-C	4	BGC	O3-C3-C2	-2.87	104.49	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	13-C	4	BGC	O3-C3-C2	-2.87	104.50	109.99
2	20-E	4	BGC	C1-C2-C3	2.87	113.19	109.67
2	19-C	6	BGC	O3-C3-C4	-2.86	103.73	110.35
2	8-E	1	BGC	O5-C1-C2	-2.86	105.17	110.28
3	4-D	5	BGC	O6-C6-C5	2.86	121.11	111.29
2	20-E	3	BGC	O5-C1-C2	-2.86	106.36	110.77
2	1-C	6	BGC	O3-C3-C4	-2.85	103.75	110.35
2	9-E	5	BGC	O5-C5-C6	-2.85	102.73	107.20
2	8-E	2	BGC	C6-C5-C4	-2.85	106.33	113.00
3	2-D	3	BGC	C3-C4-C5	2.85	115.32	110.24
2	1-C	3	BGC	O5-C1-C2	-2.85	106.38	110.77
2	17-E	4	BGC	O3-C3-C2	-2.84	104.55	109.99
2	1-E	5	BGC	C1-C2-C3	2.84	113.16	109.67
3	4-F	3	BGC	C1-O5-C5	2.84	116.04	112.19
2	4-E	1	BGC	C1-O5-C5	-2.84	108.31	113.66
2	12-E	4	BGC	O2-C2-C3	2.83	115.81	110.14
3	7-D	3	BGC	C3-C4-C5	2.83	115.28	110.24
2	13-E	4	BGC	O3-C3-C2	-2.83	104.58	109.99
2	9-E	6	BGC	O5-C5-C4	-2.82	103.96	110.83
2	19-E	3	BGC	O5-C1-C2	-2.82	106.42	110.77
3	1-D	3	BGC	C1-O5-C5	2.81	116.00	112.19
3	6-D	2	BGC	O2-C2-C3	2.81	115.77	110.14
2	23-C	6	BGC	O5-C5-C4	-2.81	103.99	110.83
3	4-D	2	BGC	O5-C5-C6	2.81	111.60	107.20
2	14-E	4	BGC	O3-C3-C2	-2.80	104.63	109.99
2	14-E	3	BGC	O5-C1-C2	-2.80	106.45	110.77
2	16-C	2	BGC	C1-C2-C3	2.80	113.10	109.67
2	12-E	2	BGC	O3-C3-C2	-2.79	104.64	109.99
2	17-C	2	BGC	C1-C2-C3	2.79	113.10	109.67
2	23-C	5	BGC	C1-O5-C5	-2.79	108.41	112.19
2	9-C	2	BGC	O5-C1-C2	-2.79	106.47	110.77
3	16-D	4	BGC	O6-C6-C5	2.79	120.86	111.29
2	8-E	4	BGC	O3-C3-C2	-2.78	104.66	109.99
2	23-C	1	BGC	O5-C5-C6	-2.78	99.52	106.44
2	12-C	6	BGC	O4-C4-C3	2.78	116.78	110.35
2	8-E	3	BGC	O5-C1-C2	-2.78	106.48	110.77
2	3-E	3	BGC	C1-O5-C5	-2.78	108.43	112.19
2	25-E	3	BGC	O5-C1-C2	-2.78	106.48	110.77
2	2-C	6	BGC	C1-C2-C3	2.78	113.08	109.67
2	13-E	4	BGC	C1-C2-C3	2.78	113.08	109.67
2	16-E	4	BGC	O3-C3-C2	-2.78	104.68	109.99
2	24-E	6	BGC	O5-C5-C4	-2.77	104.08	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	16-F	3	BGC	C1-O5-C5	2.77	115.95	112.19
3	1-F	3	BGC	O6-C6-C5	2.77	120.80	111.29
3	1-D	3	BGC	C2-C3-C4	2.77	115.69	110.89
3	5-F	4	BGC	O3-C3-C2	-2.77	104.69	109.99
2	15-E	4	BGC	O3-C3-C2	-2.77	104.69	109.99
2	11-E	4	BGC	O3-C3-C2	-2.76	104.70	109.99
3	9-D	3	BGC	C1-C2-C3	2.76	113.06	109.67
2	25-E	1	BGC	O2-C2-C3	2.76	116.73	110.35
2	17-E	6	BGC	O6-C6-C5	2.76	120.76	111.29
2	10-C	4	BGC	C1-C2-C3	2.76	113.06	109.67
2	2-E	4	BGC	O2-C2-C3	2.76	115.66	110.14
2	24-C	3	BGC	O5-C1-C2	-2.75	106.52	110.77
2	23-E	3	BGC	O5-C1-C2	-2.75	106.52	110.77
2	5-C	3	BGC	O5-C5-C4	-2.75	104.14	110.83
3	2-F	2	BGC	C3-C4-C5	2.75	115.14	110.24
2	13-C	6	BGC	C1-O5-C5	2.75	115.91	112.19
3	22-F	1	BGC	C4-C3-C2	2.74	115.61	110.82
2	18-C	6	BGC	C1-C2-C3	2.74	113.04	109.67
3	10-D	5	BGC	C2-C3-C4	2.74	115.64	110.89
3	11-D	2	BGC	O2-C2-C3	2.74	115.63	110.14
3	23-D	5	BGC	C2-C3-C4	2.74	115.64	110.89
2	21-E	1	BGC	C6-C5-C4	-2.74	106.59	113.00
2	10-E	4	BGC	O3-C3-C2	-2.74	104.75	109.99
2	8-C	1	BGC	C4-C3-C2	2.74	115.60	110.82
2	20-C	6	BGC	C1-C2-C3	2.74	113.03	109.67
3	19-D	1	BGC	C4-C3-C2	2.73	115.59	110.82
2	23-C	5	BGC	C1-C2-C3	2.73	113.02	109.67
2	19-C	1	BGC	C1-C2-C3	-2.73	104.65	110.31
2	15-C	3	BGC	O3-C3-C2	-2.73	104.77	109.99
2	10-E	5	BGC	C1-O5-C5	2.73	115.89	112.19
2	4-C	6	BGC	O3-C3-C4	-2.72	104.06	110.35
3	13-F	2	BGC	C3-C4-C5	2.72	115.09	110.24
3	24-D	5	BGC	C1-C2-C3	2.72	113.01	109.67
2	3-E	6	BGC	O5-C5-C4	-2.72	104.22	110.83
2	25-E	5	BGC	O5-C5-C6	-2.71	102.95	107.20
2	6-E	5	BGC	C1-C2-C3	2.71	113.00	109.67
3	14-D	5	BGC	C1-C2-C3	2.71	113.00	109.67
3	19-D	2	BGC	O5-C5-C6	2.71	111.45	107.20
3	6-D	1	BGC	C6-C5-C4	-2.71	106.66	113.00
3	4-D	4	BGC	C2-C3-C4	-2.71	106.21	110.89
2	25-E	1	BGC	C1-C2-C3	2.71	115.93	110.31
3	21-D	3	BGC	C1-O5-C5	2.70	115.86	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	13-D	3	BGC	C2-C3-C4	2.70	115.57	110.89
2	23-C	4	BGC	C3-C4-C5	-2.70	105.42	110.24
2	24-E	5	BGC	C1-C2-C3	2.70	112.98	109.67
3	21-D	3	BGC	C1-C2-C3	2.70	112.98	109.67
2	12-C	1	BGC	O5-C5-C4	2.69	114.59	109.69
3	17-D	1	BGC	O5-C5-C4	2.69	114.59	109.69
2	3-C	3	BGC	O5-C1-C2	-2.69	106.62	110.77
3	15-D	2	BGC	O5-C5-C4	2.69	117.37	110.83
2	17-E	6	BGC	C1-O5-C5	2.69	115.84	112.19
3	4-D	2	BGC	C1-O5-C5	-2.69	108.55	112.19
2	14-E	3	BGC	O3-C3-C4	-2.69	104.13	110.35
2	11-C	3	BGC	O3-C3-C2	-2.68	104.85	109.99
3	17-F	1	BGC	O5-C1-C2	2.68	115.07	110.28
2	18-C	2	BGC	O3-C3-C2	-2.68	104.86	109.99
2	23-E	2	BGC	C1-C2-C3	2.68	112.96	109.67
3	1-F	2	BGC	C3-C4-C5	2.68	115.01	110.24
3	23-D	3	BGC	C1-C2-C3	2.67	112.95	109.67
2	12-C	3	BGC	C1-C2-C3	2.67	112.95	109.67
2	16-C	2	BGC	O3-C3-C2	-2.67	104.88	109.99
3	4-F	2	BGC	C3-C4-C5	2.67	115.00	110.24
2	21-E	3	BGC	O5-C1-C2	-2.66	106.66	110.77
2	9-E	2	BGC	C2-C3-C4	2.66	115.50	110.89
3	23-F	1	BGC	O3-C3-C2	-2.66	104.19	110.35
2	10-C	1	BGC	C4-C3-C2	2.66	115.47	110.82
2	5-C	4	BGC	O3-C3-C2	-2.66	104.90	109.99
3	11-D	4	BGC	O2-C2-C3	2.66	115.47	110.14
2	16-C	3	BGC	O5-C1-C2	-2.66	106.67	110.77
2	7-E	6	BGC	O5-C5-C4	-2.66	104.36	110.83
3	7-D	3	BGC	C2-C3-C4	2.65	115.48	110.89
3	6-D	2	BGC	O5-C5-C4	2.65	117.27	110.83
3	25-D	5	BGC	C1-O5-C5	2.64	115.78	112.19
2	10-E	5	BGC	O5-C5-C6	-2.64	103.06	107.20
2	16-C	5	BGC	O3-C3-C4	-2.64	104.25	110.35
2	13-E	5	BGC	C1-O5-C5	-2.64	108.62	112.19
3	19-D	5	BGC	C1-C2-C3	2.64	112.91	109.67
2	25-C	6	BGC	O3-C3-C4	-2.64	104.25	110.35
3	7-D	3	BGC	C1-C2-C3	2.64	112.91	109.67
2	21-E	4	BGC	O3-C3-C2	-2.64	104.95	109.99
3	8-D	4	BGC	C1-C2-C3	2.63	112.90	109.67
2	10-E	3	BGC	O5-C1-C2	-2.63	106.70	110.77
2	25-E	4	BGC	C1-C2-C3	2.63	112.90	109.67
2	23-C	4	BGC	C1-O5-C5	-2.63	108.63	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	22-D	1	BGC	C1-O5-C5	2.63	118.62	113.66
2	6-C	4	BGC	C1-C2-C3	2.63	112.90	109.67
2	1-C	2	BGC	C1-C2-C3	2.63	112.89	109.67
3	24-F	2	BGC	O2-C2-C3	2.63	115.40	110.14
2	3-C	2	BGC	O5-C1-C2	-2.63	106.72	110.77
3	3-F	3	BGC	C1-C2-C3	2.62	112.89	109.67
2	21-E	6	BGC	O5-C5-C4	-2.62	104.44	110.83
2	10-C	3	BGC	O5-C1-C2	-2.62	106.72	110.77
3	11-D	4	BGC	C6-C5-C4	2.62	119.15	113.00
3	14-F	2	BGC	O5-C5-C6	2.62	111.31	107.20
2	21-E	5	BGC	O4-C4-C5	2.62	115.80	109.30
2	19-E	6	BGC	O6-C6-C5	-2.62	102.31	111.29
2	6-E	2	BGC	C1-C2-C3	2.62	112.88	109.67
3	9-D	1	BGC	O3-C3-C2	-2.61	104.31	110.35
2	9-C	6	BGC	O6-C6-C5	2.61	120.24	111.29
2	16-E	1	BGC	C1-O5-C5	-2.60	108.75	113.66
2	10-E	2	BGC	C1-C2-C3	2.60	112.86	109.67
2	11-E	1	BGC	O5-C1-C2	-2.60	105.64	110.28
2	8-C	4	BGC	O3-C3-C2	-2.60	105.02	109.99
3	17-D	1	BGC	O3-C3-C2	-2.60	104.34	110.35
3	2-D	3	BGC	C2-C3-C4	2.60	115.39	110.89
2	18-C	2	BGC	O5-C1-C2	-2.59	106.77	110.77
2	23-C	4	BGC	O5-C1-C2	-2.59	106.77	110.77
2	10-E	6	BGC	O3-C3-C4	-2.59	104.36	110.35
3	17-D	1	BGC	C4-C3-C2	2.59	115.34	110.82
2	25-E	3	BGC	C1-O5-C5	-2.58	108.69	112.19
2	16-C	4	BGC	O3-C3-C2	-2.58	105.05	109.99
2	1-E	3	BGC	O3-C3-C2	-2.58	105.05	109.99
3	16-D	2	BGC	O5-C5-C6	2.58	111.25	107.20
2	17-E	3	BGC	O5-C1-C2	-2.58	106.79	110.77
3	5-D	4	BGC	C1-O5-C5	2.58	115.68	112.19
3	24-D	3	BGC	C1-C2-C3	2.57	112.83	109.67
2	22-E	6	BGC	C1-O5-C5	2.57	115.68	112.19
3	2-F	2	BGC	O5-C1-C2	2.57	114.74	110.77
3	6-D	3	BGC	C1-C2-C3	2.57	112.82	109.67
2	18-C	6	BGC	O5-C5-C6	-2.56	103.18	107.20
2	9-E	3	BGC	O5-C1-C2	-2.56	106.81	110.77
3	12-D	1	BGC	O5-C5-C4	2.56	114.35	109.69
3	16-F	2	BGC	O2-C2-C3	2.56	115.27	110.14
2	6-E	3	BGC	C1-O5-C5	2.56	115.66	112.19
3	4-D	5	BGC	C1-C2-C3	2.56	112.81	109.67
2	24-E	1	BGC	C1-O5-C5	-2.55	108.85	113.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	16-F	2	BGC	C1-O5-C5	-2.55	108.74	112.19
2	17-E	1	BGC	C1-O5-C5	-2.55	108.85	113.66
2	4-E	1	BGC	O5-C1-C2	-2.55	105.74	110.28
2	18-E	3	BGC	C1-C2-C3	2.55	112.80	109.67
3	3-F	2	BGC	O2-C2-C3	2.55	115.24	110.14
2	19-E	1	BGC	C1-O5-C5	-2.55	108.86	113.66
3	17-F	1	BGC	O6-C6-C5	2.55	120.03	111.29
3	21-D	5	BGC	C1-O5-C5	2.54	115.64	112.19
3	7-F	2	BGC	O5-C5-C6	2.54	111.19	107.20
2	12-C	3	BGC	O3-C3-C4	-2.54	104.47	110.35
3	7-D	4	BGC	O5-C1-C2	-2.54	106.85	110.77
3	11-D	2	BGC	C2-C3-C4	2.54	115.30	110.89
2	14-C	4	BGC	O3-C3-C2	-2.54	105.13	109.99
3	21-F	2	BGC	O5-C5-C6	2.54	111.18	107.20
2	23-E	6	BGC	O3-C3-C4	-2.54	104.49	110.35
2	6-C	4	BGC	O3-C3-C2	-2.53	105.14	109.99
2	14-C	6	BGC	C1-O5-C5	2.53	115.62	112.19
2	12-E	3	BGC	O3-C3-C2	-2.53	105.15	109.99
2	6-C	6	BGC	C1-O5-C5	-2.53	108.77	112.19
3	10-D	4	BGC	O5-C1-C2	-2.53	106.87	110.77
2	4-C	2	BGC	C1-C2-C3	2.53	112.77	109.67
2	13-C	3	BGC	O3-C3-C2	-2.53	105.15	109.99
2	15-E	3	BGC	C1-O5-C5	-2.53	108.77	112.19
2	5-E	3	BGC	O5-C1-C2	-2.53	106.87	110.77
3	21-D	4	BGC	C1-O5-C5	2.52	115.61	112.19
2	12-C	6	BGC	O3-C3-C2	2.52	114.83	109.99
3	22-D	2	BGC	O5-C5-C6	2.52	111.16	107.20
3	23-F	3	BGC	O2-C2-C3	2.52	115.18	110.14
3	2-D	4	BGC	C1-C2-C3	2.51	112.76	109.67
3	18-D	2	BGC	C1-O5-C5	2.51	115.60	112.19
2	2-E	2	BGC	O3-C3-C2	-2.51	105.18	109.99
3	22-D	1	BGC	C6-C5-C4	-2.51	107.13	113.00
2	12-E	1	BGC	O2-C2-C3	2.51	116.14	110.35
3	2-D	3	BGC	C1-O5-C5	2.51	115.59	112.19
3	20-F	3	BGC	C1-C2-C3	2.51	112.75	109.67
3	2-D	3	BGC	C1-C2-C3	2.50	112.75	109.67
2	25-E	4	BGC	O3-C3-C2	-2.50	105.20	109.99
2	11-E	4	BGC	C1-C2-C3	2.50	112.74	109.67
3	9-D	2	BGC	C3-C4-C5	2.50	114.70	110.24
3	4-D	2	BGC	O3-C3-C2	2.50	114.78	109.99
2	18-C	3	BGC	O5-C5-C6	2.50	111.12	107.20
2	23-C	6	BGC	O3-C3-C4	-2.50	104.57	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	21-C	5	BGC	C6-C5-C4	-2.50	107.16	113.00
3	10-F	3	BGC	O2-C2-C3	2.49	115.13	110.14
3	18-D	1	BGC	O5-C5-C4	2.49	114.22	109.69
2	25-C	3	BGC	C1-C2-C3	2.49	112.73	109.67
3	20-D	2	BGC	C1-O5-C5	2.49	115.56	112.19
2	15-C	4	BGC	O3-C3-C2	-2.49	105.23	109.99
3	6-F	2	BGC	O2-C2-C3	2.49	115.12	110.14
3	21-D	1	BGC	O5-C5-C4	2.49	114.21	109.69
3	21-D	1	BGC	O3-C3-C4	2.48	116.09	110.35
3	4-F	5	BGC	C2-C3-C4	2.48	115.19	110.89
3	10-D	3	BGC	C1-C2-C3	2.48	112.72	109.67
3	14-D	1	BGC	O5-C5-C4	2.48	114.20	109.69
2	15-E	1	BGC	O5-C5-C6	2.48	112.59	106.44
2	1-C	1	BGC	C1-C2-C3	2.47	115.45	110.31
2	23-C	3	BGC	O5-C1-C2	-2.47	106.95	110.77
2	13-C	4	BGC	O5-C5-C4	-2.47	104.81	110.83
3	24-D	1	BGC	O5-C5-C4	2.47	114.19	109.69
3	11-D	1	BGC	O5-C5-C4	2.47	114.18	109.69
2	19-C	2	BGC	O5-C1-C2	-2.47	106.96	110.77
3	15-F	5	BGC	C2-C3-C4	2.47	115.17	110.89
3	9-F	2	BGC	C3-C4-C5	2.47	114.64	110.24
2	15-E	2	BGC	O3-C3-C2	-2.46	105.28	109.99
3	13-D	3	BGC	C1-C2-C3	2.46	112.69	109.67
2	1-C	4	BGC	O5-C1-C2	-2.46	106.97	110.77
3	2-D	5	BGC	C2-C3-C4	2.46	115.15	110.89
3	23-F	3	BGC	O6-C6-C5	2.46	119.72	111.29
3	21-F	3	BGC	C1-C2-C3	2.46	112.69	109.67
2	5-C	2	BGC	C1-C2-C3	2.46	112.69	109.67
2	9-E	2	BGC	O3-C3-C2	-2.46	105.29	109.99
2	22-C	6	BGC	C1-C2-C3	2.45	112.68	109.67
2	12-C	4	BGC	O3-C3-C2	-2.45	105.30	109.99
3	18-D	1	BGC	C3-C4-C5	2.45	114.60	110.24
2	16-C	3	BGC	C1-O5-C5	-2.44	108.88	112.19
2	2-E	6	BGC	O5-C1-C2	2.44	114.54	110.77
3	24-D	4	BGC	O5-C1-C2	-2.44	107.00	110.77
2	21-E	4	BGC	O6-C6-C5	2.44	119.67	111.29
3	7-F	3	BGC	O5-C5-C6	2.44	111.03	107.20
3	23-D	4	BGC	C3-C4-C5	-2.44	105.89	110.24
2	19-E	2	BGC	O5-C1-C2	-2.44	107.01	110.77
2	11-E	6	BGC	O3-C3-C4	-2.44	104.71	110.35
3	3-D	4	BGC	O6-C6-C5	2.44	119.65	111.29
2	16-E	2	BGC	C1-O5-C5	-2.44	108.89	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	11-D	1	BGC	C4-C3-C2	2.43	115.07	110.82
2	3-E	6	BGC	O3-C3-C4	-2.43	104.73	110.35
3	20-D	3	BGC	C1-O5-C5	2.43	115.48	112.19
2	8-E	3	BGC	O3-C3-C2	-2.43	105.34	109.99
2	24-E	6	BGC	C6-C5-C4	2.43	118.69	113.00
3	10-F	2	BGC	O2-C2-C1	2.43	114.12	109.15
2	22-C	6	BGC	O6-C6-C5	2.43	119.62	111.29
3	12-D	5	BGC	O5-C1-C2	-2.42	107.03	110.77
2	11-C	6	BGC	O6-C6-C5	2.42	119.60	111.29
2	4-C	6	BGC	C1-O5-C5	2.42	115.47	112.19
3	15-F	2	BGC	C3-C4-C5	2.42	114.56	110.24
2	16-E	3	BGC	O5-C1-C2	-2.42	107.04	110.77
3	11-F	2	BGC	O2-C2-C1	2.42	114.10	109.15
2	12-C	2	BGC	C1-C2-C3	2.42	112.64	109.67
3	25-D	4	BGC	O6-C6-C5	2.42	119.59	111.29
3	25-F	3	BGC	O3-C3-C2	-2.42	105.36	109.99
3	5-F	1	BGC	O6-C6-C5	2.42	119.58	111.29
2	13-E	3	BGC	O5-C1-C2	-2.41	107.05	110.77
3	15-D	1	BGC	O5-C5-C4	2.41	114.07	109.69
3	10-F	3	BGC	O3-C3-C2	-2.41	105.38	109.99
2	19-C	1	BGC	O5-C5-C4	2.41	114.07	109.69
2	13-E	6	BGC	C1-O5-C5	2.41	115.45	112.19
2	9-C	2	BGC	C1-O5-C5	-2.41	108.93	112.19
3	18-D	5	BGC	O2-C2-C1	-2.41	104.23	109.15
3	19-D	5	BGC	O5-C1-C2	-2.41	107.06	110.77
3	2-D	5	BGC	C1-C2-C3	2.41	112.62	109.67
2	18-C	6	BGC	C6-C5-C4	2.40	118.64	113.00
3	23-F	1	BGC	O6-C6-C5	2.40	119.54	111.29
2	17-E	4	BGC	C1-C2-C3	2.40	112.62	109.67
2	22-E	2	BGC	O3-C3-C2	-2.40	105.39	109.99
2	25-C	5	BGC	C6-C5-C4	-2.40	107.39	113.00
2	5-C	2	BGC	O5-C1-C2	-2.40	107.07	110.77
2	12-E	6	BGC	C1-O5-C5	2.40	115.44	112.19
2	24-C	2	BGC	O5-C1-C2	-2.39	107.08	110.77
3	16-D	4	BGC	C1-O5-C5	2.39	115.43	112.19
2	22-E	1	BGC	O2-C2-C3	2.39	115.88	110.35
3	15-D	4	BGC	O6-C6-C5	2.39	119.48	111.29
2	10-C	5	BGC	C6-C5-C4	-2.38	107.42	113.00
3	23-D	1	BGC	O6-C6-C5	2.38	119.47	111.29
2	4-E	1	BGC	O2-C2-C3	2.38	115.86	110.35
2	2-E	5	BGC	O5-C1-C2	-2.38	107.09	110.77
2	9-E	6	BGC	C1-C2-C3	2.38	112.59	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	25-F	5	BGC	C1-C2-C3	2.38	112.59	109.67
3	19-D	4	BGC	O6-C6-C5	2.38	119.46	111.29
2	4-E	2	BGC	O3-C3-C2	-2.38	105.44	109.99
2	8-C	6	BGC	C1-O5-C5	2.38	115.42	112.19
3	18-D	2	BGC	O5-C5-C4	2.38	116.61	110.83
2	4-E	6	BGC	C1-C2-C3	2.38	112.59	109.67
3	11-D	3	BGC	O3-C3-C2	-2.38	105.44	109.99
2	23-E	5	BGC	O5-C5-C6	-2.38	103.48	107.20
3	16-F	3	BGC	C1-C2-C3	2.38	112.59	109.67
2	17-C	6	BGC	O5-C5-C4	-2.37	105.05	110.83
2	5-E	1	BGC	O3-C3-C2	-2.37	104.86	110.35
2	12-C	6	BGC	O5-C5-C4	-2.37	105.05	110.83
2	20-C	6	BGC	O5-C1-C2	2.37	114.43	110.77
2	16-C	6	BGC	C1-C2-C3	2.37	112.58	109.67
3	20-D	5	BGC	C1-O5-C5	2.37	115.40	112.19
2	11-C	6	BGC	C6-C5-C4	2.37	118.56	113.00
2	13-C	5	BGC	C1-C2-C3	2.37	112.58	109.67
3	7-F	4	BGC	O5-C5-C6	2.37	110.92	107.20
2	7-E	6	BGC	C1-C2-C3	2.37	112.58	109.67
3	18-D	5	BGC	C1-C2-C3	2.36	112.57	109.67
2	12-E	1	BGC	C1-O5-C5	-2.36	109.20	113.66
2	8-C	1	BGC	C1-C2-C3	2.36	115.22	110.31
3	13-D	2	BGC	O5-C5-C6	2.36	110.91	107.20
3	25-D	4	BGC	O5-C1-C2	-2.36	107.12	110.77
3	16-D	2	BGC	C1-O5-C5	-2.36	108.99	112.19
2	21-E	5	BGC	C1-C2-C3	2.36	112.57	109.67
3	14-D	3	BGC	O5-C5-C6	2.36	110.90	107.20
2	21-C	1	BGC	O3-C3-C4	2.36	115.80	110.35
3	2-F	3	BGC	C1-C2-C3	2.36	112.56	109.67
3	14-D	1	BGC	C3-C4-C5	2.35	114.44	110.24
3	14-F	1	BGC	C4-C3-C2	2.35	114.93	110.82
2	16-C	6	BGC	O3-C3-C4	-2.35	104.91	110.35
3	6-D	1	BGC	C4-C3-C2	2.35	114.93	110.82
2	22-C	2	BGC	O5-C1-C2	-2.35	107.14	110.77
3	18-D	1	BGC	O3-C3-C4	2.35	115.78	110.35
2	17-C	1	BGC	O5-C5-C4	2.35	113.95	109.69
2	2-E	6	BGC	O5-C5-C4	-2.34	105.13	110.83
2	2-C	6	BGC	O6-C6-C5	2.34	119.32	111.29
3	7-D	3	BGC	C1-O5-C5	2.34	115.36	112.19
2	15-C	1	BGC	O2-C2-C3	2.34	115.76	110.35
2	25-C	4	BGC	O3-C3-C2	-2.34	105.51	109.99
2	9-E	4	BGC	C1-C2-C3	2.34	112.54	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	21-C	3	BGC	C1-C2-C3	2.34	112.54	109.67
2	17-E	5	BGC	C1-C2-C3	2.34	112.54	109.67
3	14-D	1	BGC	O3-C3-C2	-2.34	104.95	110.35
3	25-D	1	BGC	O4-C4-C3	2.34	115.75	110.35
2	6-E	4	BGC	C1-C2-C3	2.33	112.53	109.67
2	24-C	4	BGC	O3-C3-C2	-2.33	105.53	109.99
2	11-E	1	BGC	O2-C2-C3	2.33	115.74	110.35
3	6-F	2	BGC	O5-C5-C6	2.33	110.86	107.20
2	24-E	6	BGC	O6-C6-C5	2.33	119.29	111.29
2	25-E	4	BGC	C3-C4-C5	-2.33	106.08	110.24
2	15-E	5	BGC	O3-C3-C2	-2.33	105.53	109.99
2	18-E	6	BGC	O6-C6-C5	2.33	119.28	111.29
2	16-C	2	BGC	O5-C1-C2	-2.33	107.17	110.77
2	9-E	4	BGC	O2-C2-C3	2.33	114.80	110.14
3	17-D	3	BGC	C1-C2-C3	2.33	112.53	109.67
3	1-F	1	BGC	O6-C6-C5	2.33	119.27	111.29
2	4-E	2	BGC	C1-O5-C5	-2.32	109.04	112.19
2	19-C	3	BGC	O3-C3-C2	-2.32	105.55	109.99
3	3-D	2	BGC	C2-C3-C4	2.32	114.91	110.89
2	22-E	5	BGC	C1-C2-C3	2.32	112.52	109.67
3	8-D	2	BGC	O2-C2-C1	2.32	113.90	109.15
2	5-E	6	BGC	O5-C5-C6	-2.32	103.57	107.20
3	13-D	3	BGC	O5-C5-C6	2.32	110.84	107.20
2	7-C	1	BGC	C1-C2-C3	-2.32	105.50	110.31
3	13-F	3	BGC	O2-C2-C3	2.32	114.78	110.14
3	5-D	1	BGC	O5-C5-C4	2.32	113.90	109.69
3	24-F	1	BGC	C4-C3-C2	2.32	114.87	110.82
2	14-C	1	BGC	C1-O5-C5	-2.32	109.29	113.66
2	13-C	2	BGC	C1-C2-C3	2.32	112.51	109.67
3	15-D	5	BGC	C1-C2-C3	2.32	112.51	109.67
2	17-C	6	BGC	C3-C4-C5	-2.32	106.11	110.24
3	23-D	4	BGC	C1-C2-C3	2.32	112.51	109.67
3	12-D	4	BGC	O6-C6-C5	2.31	119.23	111.29
2	13-E	1	BGC	O2-C2-C3	2.31	115.70	110.35
3	17-F	4	BGC	O3-C3-C2	-2.31	105.57	109.99
2	19-C	3	BGC	C1-C2-C3	2.31	112.51	109.67
3	5-D	4	BGC	O5-C1-C2	-2.31	107.20	110.77
2	12-E	6	BGC	O3-C3-C4	-2.31	105.01	110.35
2	19-C	1	BGC	O3-C3-C4	2.31	115.68	110.35
2	18-C	4	BGC	O3-C3-C2	-2.31	105.58	109.99
2	12-C	1	BGC	O2-C2-C3	2.31	115.68	110.35
3	24-F	2	BGC	O5-C5-C6	2.31	110.82	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	9-D	5	BGC	C1-O5-C5	2.30	115.31	112.19
2	11-E	2	BGC	C1-C2-C3	2.30	112.50	109.67
2	11-E	1	BGC	C1-O5-C5	-2.30	109.32	113.66
2	11-C	6	BGC	O5-C5-C4	-2.30	105.23	110.83
2	9-E	5	BGC	C6-C5-C4	-2.30	107.62	113.00
3	8-D	4	BGC	O5-C1-C2	-2.30	107.22	110.77
2	4-E	5	BGC	C1-O5-C5	-2.30	109.08	112.19
3	2-F	5	BGC	C2-C3-C4	2.30	114.87	110.89
3	18-F	3	BGC	C1-O5-C5	2.30	115.30	112.19
2	19-C	5	BGC	O5-C1-C2	-2.30	107.23	110.77
3	21-D	4	BGC	O5-C1-C2	-2.30	107.23	110.77
3	22-F	1	BGC	O3-C3-C2	-2.29	105.04	110.35
3	5-D	4	BGC	C1-C2-C3	2.29	112.48	109.67
2	25-E	1	BGC	C4-C3-C2	-2.29	106.82	110.82
2	11-E	6	BGC	C1-C2-C3	2.29	112.48	109.67
2	12-C	3	BGC	O3-C3-C2	-2.29	105.61	109.99
2	5-E	6	BGC	O3-C3-C4	-2.28	105.07	110.35
2	23-C	6	BGC	C3-C4-C5	-2.28	106.17	110.24
3	11-F	3	BGC	C1-C2-C3	2.28	112.47	109.67
3	13-F	4	BGC	O3-C3-C2	-2.28	105.63	109.99
3	18-D	3	BGC	C1-C2-C3	2.28	112.46	109.67
3	13-D	1	BGC	O3-C3-C2	-2.28	105.09	110.35
2	18-E	6	BGC	O5-C5-C4	-2.28	105.29	110.83
3	17-D	3	BGC	C1-O5-C5	2.27	115.27	112.19
3	23-F	2	BGC	O2-C2-C3	2.27	114.69	110.14
3	13-D	5	BGC	O5-C1-C2	-2.27	107.27	110.77
3	14-D	3	BGC	C1-C2-C3	2.27	112.46	109.67
3	24-D	3	BGC	C1-O5-C5	2.27	115.27	112.19
3	18-F	5	BGC	C2-C3-C4	2.27	114.82	110.89
3	19-F	2	BGC	O5-C1-C2	2.27	114.27	110.77
2	14-E	6	BGC	C1-C2-C3	2.26	112.45	109.67
2	7-E	1	BGC	O2-C2-C3	2.26	115.58	110.35
2	8-E	2	BGC	O4-C4-C5	-2.26	103.67	109.30
3	8-F	5	BGC	O5-C1-C2	-2.26	107.28	110.77
3	24-D	1	BGC	O3-C3-C2	-2.26	105.12	110.35
2	3-C	5	BGC	C3-C4-C5	2.26	114.27	110.24
2	3-C	5	BGC	O3-C3-C2	-2.26	105.66	109.99
3	22-D	1	BGC	O3-C3-C2	-2.26	105.12	110.35
2	7-E	1	BGC	C1-O5-C5	-2.26	109.40	113.66
3	23-F	1	BGC	C4-C3-C2	2.26	114.77	110.82
2	14-C	2	BGC	O5-C1-C2	-2.26	107.29	110.77
2	25-E	1	BGC	O5-C1-C2	-2.25	106.26	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	24-D	4	BGC	C1-C2-C3	2.25	112.44	109.67
3	12-F	3	BGC	C1-C2-C3	2.25	112.44	109.67
3	3-D	4	BGC	C1-C2-C3	2.25	112.44	109.67
3	7-D	1	BGC	C4-C3-C2	2.25	114.75	110.82
3	4-D	4	BGC	O6-C6-C5	2.25	119.02	111.29
2	10-E	5	BGC	C1-C2-C3	2.25	112.43	109.67
3	21-D	2	BGC	C3-C4-C5	2.25	114.25	110.24
3	14-D	2	BGC	O5-C5-C6	2.25	110.73	107.20
3	9-D	1	BGC	O3-C3-C4	2.25	115.55	110.35
2	4-E	3	BGC	O5-C1-C2	-2.25	107.30	110.77
2	13-E	1	BGC	C1-O5-C5	-2.25	109.42	113.66
3	7-F	3	BGC	C1-O5-C5	2.25	115.24	112.19
2	20-C	6	BGC	O3-C3-C4	-2.25	105.15	110.35
3	5-D	2	BGC	O3-C3-C4	2.25	115.55	110.35
3	3-D	4	BGC	O5-C1-C2	-2.25	107.30	110.77
2	5-C	1	BGC	O6-C6-C5	2.25	119.00	111.29
2	9-E	5	BGC	C2-C3-C4	2.25	114.78	110.89
2	21-E	2	BGC	O2-C2-C3	-2.25	105.64	110.14
3	8-D	1	BGC	O5-C5-C4	2.24	113.77	109.69
3	20-D	5	BGC	C1-C2-C3	2.24	112.42	109.67
2	4-C	3	BGC	O5-C5-C6	2.24	110.72	107.20
2	10-E	1	BGC	C1-O5-C5	-2.24	109.44	113.66
2	4-C	2	BGC	C6-C5-C4	-2.24	107.76	113.00
3	13-F	1	BGC	C4-C3-C2	2.24	114.73	110.82
3	12-D	5	BGC	C2-C3-C4	2.23	114.76	110.89
2	10-E	2	BGC	O3-C3-C2	-2.23	105.72	109.99
3	23-D	1	BGC	O3-C3-C2	-2.23	105.19	110.35
3	7-D	1	BGC	O5-C5-C4	2.23	113.75	109.69
2	13-C	2	BGC	C1-O5-C5	-2.23	109.17	112.19
3	2-D	4	BGC	O5-C1-C2	-2.23	107.33	110.77
2	17-C	6	BGC	O4-C4-C3	2.23	115.51	110.35
3	21-D	4	BGC	C1-C2-C3	2.23	112.41	109.67
3	25-F	2	BGC	O5-C5-C6	2.23	110.70	107.20
2	5-C	1	BGC	O5-C5-C4	2.23	113.74	109.69
3	9-D	4	BGC	O6-C6-C5	2.23	118.93	111.29
2	4-E	2	BGC	C1-C2-C3	2.23	112.40	109.67
3	16-D	3	BGC	C1-C2-C3	2.23	112.40	109.67
3	25-F	2	BGC	O2-C2-C1	2.23	113.71	109.15
2	24-C	1	BGC	O3-C3-C2	-2.23	105.20	110.35
2	16-E	1	BGC	O2-C2-C3	2.23	115.49	110.35
3	16-D	3	BGC	O6-C6-C5	2.22	118.92	111.29
2	10-C	3	BGC	C1-O5-C5	-2.22	109.18	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	22-D	4	BGC	C1-C2-C3	2.22	112.40	109.67
3	4-F	5	BGC	O5-C5-C4	-2.22	105.42	110.83
2	25-C	3	BGC	O3-C3-C2	-2.22	105.73	109.99
2	1-C	6	BGC	O5-C5-C6	-2.22	103.72	107.20
3	23-F	2	BGC	C3-C4-C5	2.22	114.20	110.24
2	18-E	6	BGC	O2-C2-C3	2.22	114.59	110.14
2	23-E	2	BGC	C2-C3-C4	2.22	114.74	110.89
2	12-C	6	BGC	C1-C2-C3	2.22	112.39	109.67
2	7-C	5	BGC	C2-C3-C4	-2.22	107.06	110.89
3	18-D	4	BGC	C1-C2-C3	2.22	112.39	109.67
3	15-D	1	BGC	O3-C3-C2	-2.22	105.22	110.35
2	9-C	1	BGC	O2-C2-C3	2.22	115.47	110.35
2	23-E	1	BGC	O3-C3-C2	-2.22	105.23	110.35
3	11-F	3	BGC	C3-C4-C5	2.21	114.19	110.24
3	8-F	1	BGC	C4-C3-C2	2.21	114.69	110.82
2	11-C	6	BGC	O5-C5-C6	-2.21	103.73	107.20
3	6-D	5	BGC	C6-C5-C4	-2.21	107.82	113.00
2	12-E	4	BGC	C1-C2-C3	2.21	112.38	109.67
2	17-C	5	BGC	O5-C5-C6	-2.21	103.74	107.20
3	17-D	4	BGC	O6-C6-C5	2.21	118.87	111.29
3	4-D	3	BGC	C2-C3-C4	2.21	114.72	110.89
2	6-E	6	BGC	C3-C4-C5	-2.21	106.30	110.24
3	2-D	1	BGC	O5-C5-C4	2.21	113.70	109.69
3	1-D	3	BGC	O5-C5-C6	2.21	110.67	107.20
3	6-D	2	BGC	O3-C3-C4	2.21	115.45	110.35
3	5-F	5	BGC	C2-C3-C4	2.21	114.71	110.89
3	23-D	1	BGC	C1-O5-C5	2.21	117.83	113.66
3	19-F	3	BGC	O6-C6-C5	2.21	118.86	111.29
2	21-E	4	BGC	C1-C2-C3	2.21	112.38	109.67
2	10-C	2	BGC	O5-C1-C2	-2.21	107.37	110.77
2	18-E	2	BGC	O6-C6-C5	2.20	118.85	111.29
2	18-E	6	BGC	O5-C5-C6	2.20	110.66	107.20
3	12-F	2	BGC	C3-C4-C5	2.20	114.17	110.24
3	12-D	5	BGC	C1-C2-C3	2.20	112.37	109.67
3	10-F	4	BGC	O3-C3-C2	-2.20	105.78	109.99
3	25-F	3	BGC	O5-C5-C6	2.20	110.65	107.20
3	5-D	3	BGC	O6-C6-C5	2.20	118.84	111.29
2	20-E	1	BGC	C1-O5-C5	-2.20	109.52	113.66
3	2-F	2	BGC	O3-C3-C2	2.20	114.20	109.99
2	19-E	4	BGC	O3-C3-C2	-2.20	105.79	109.99
3	22-F	3	BGC	C1-O5-C5	2.19	115.17	112.19
2	4-C	1	BGC	O5-C5-C4	2.19	113.67	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-E	3	BGC	O5-C1-C2	-2.19	107.39	110.77
3	10-D	4	BGC	C1-C2-C3	2.19	112.36	109.67
3	17-D	3	BGC	O5-C5-C6	2.19	110.64	107.20
3	11-D	3	BGC	C3-C4-C5	2.19	114.15	110.24
3	22-D	2	BGC	O2-C2-C3	2.19	114.52	110.14
2	3-E	4	BGC	O4-C4-C5	2.19	114.73	109.30
3	22-D	3	BGC	C1-C2-C3	2.19	112.36	109.67
3	12-D	4	BGC	C1-C2-C3	2.19	112.36	109.67
3	19-D	2	BGC	O2-C2-C3	2.19	114.52	110.14
2	14-C	5	BGC	O3-C3-C4	-2.19	105.29	110.35
2	20-E	4	BGC	O3-C3-C2	-2.19	105.81	109.99
3	12-F	1	BGC	C4-C3-C2	2.19	114.64	110.82
2	18-E	3	BGC	O5-C5-C6	2.18	110.63	107.20
3	22-D	3	BGC	O5-C5-C6	2.18	110.63	107.20
2	13-C	4	BGC	O5-C1-C2	-2.18	107.40	110.77
2	17-E	1	BGC	O5-C5-C6	2.18	111.86	106.44
2	18-E	2	BGC	C2-C3-C4	2.18	114.67	110.89
2	24-C	1	BGC	C1-O5-C5	-2.18	109.55	113.66
2	6-C	3	BGC	C1-C2-C3	2.18	112.34	109.67
2	16-E	2	BGC	C1-C2-C3	2.18	112.34	109.67
2	4-C	2	BGC	O5-C5-C6	2.18	110.62	107.20
2	19-C	1	BGC	O5-C1-C2	-2.18	106.40	110.28
2	15-E	3	BGC	O3-C3-C2	-2.18	105.83	109.99
2	15-C	2	BGC	O5-C1-C2	-2.18	107.41	110.77
3	2-D	1	BGC	O3-C3-C2	-2.17	105.32	110.35
3	1-D	4	BGC	O6-C6-C5	2.17	118.75	111.29
2	21-E	5	BGC	O6-C6-C5	2.17	118.74	111.29
3	18-D	5	BGC	O5-C1-C2	-2.17	107.42	110.77
3	17-D	1	BGC	C3-C4-C5	2.17	114.11	110.24
3	17-F	3	BGC	O6-C6-C5	2.17	118.73	111.29
3	25-D	2	BGC	O5-C5-C4	2.17	116.10	110.83
2	13-E	3	BGC	O3-C3-C2	-2.17	105.84	109.99
3	20-D	3	BGC	O5-C5-C6	2.17	110.60	107.20
2	14-E	6	BGC	O5-C5-C4	-2.17	105.56	110.83
2	20-C	1	BGC	C1-O5-C5	-2.17	109.58	113.66
2	8-C	2	BGC	O5-C1-C2	-2.17	107.43	110.77
2	5-C	1	BGC	O3-C3-C4	2.17	115.36	110.35
3	22-D	3	BGC	O6-C6-C5	2.16	118.72	111.29
2	21-C	3	BGC	O3-C3-C4	-2.16	105.34	110.35
3	19-D	5	BGC	C1-O5-C5	2.16	115.12	112.19
2	7-E	3	BGC	C2-C3-C4	2.16	114.64	110.89
3	5-D	3	BGC	C2-C3-C4	2.16	114.64	110.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	16-D	1	BGC	O5-C5-C4	2.16	113.62	109.69
2	6-E	2	BGC	O3-C3-C2	-2.16	105.86	109.99
3	10-D	2	BGC	C1-O5-C5	-2.16	109.27	112.19
3	18-D	1	BGC	O3-C3-C2	-2.16	105.36	110.35
2	3-E	2	BGC	O2-C2-C3	-2.16	105.81	110.14
3	6-F	2	BGC	C1-O5-C5	-2.16	109.27	112.19
3	2-D	5	BGC	O5-C1-C2	-2.16	107.44	110.77
3	11-D	4	BGC	O5-C5-C6	-2.16	103.82	107.20
2	18-C	3	BGC	C6-C5-C4	-2.16	107.95	113.00
2	25-E	3	BGC	O3-C3-C2	-2.16	105.87	109.99
2	7-C	1	BGC	O5-C5-C4	2.15	113.61	109.69
2	12-E	4	BGC	O5-C1-C2	-2.15	107.45	110.77
2	21-C	2	BGC	C3-C4-C5	-2.15	106.40	110.24
3	14-D	2	BGC	C1-O5-C5	-2.15	109.28	112.19
2	19-C	3	BGC	O5-C1-C2	-2.15	107.45	110.77
3	20-D	1	BGC	O6-C6-C5	2.15	118.67	111.29
2	23-C	2	BGC	O5-C1-C2	-2.15	107.45	110.77
3	5-D	2	BGC	O4-C4-C5	-2.15	103.96	109.30
2	2-C	4	BGC	O5-C1-C2	-2.15	107.45	110.77
3	19-F	1	BGC	C4-C3-C2	2.15	114.57	110.82
2	15-C	1	BGC	O5-C5-C4	2.15	113.59	109.69
3	9-D	1	BGC	O4-C4-C3	2.15	115.31	110.35
3	18-F	3	BGC	C1-C2-C3	2.14	112.30	109.67
3	20-D	3	BGC	C2-C3-C4	2.14	114.60	110.89
3	11-F	3	BGC	O5-C5-C6	2.14	110.56	107.20
2	21-E	1	BGC	O5-C1-C2	2.14	114.10	110.28
2	14-E	5	BGC	C1-O5-C5	-2.14	109.29	112.19
2	22-C	3	BGC	O3-C3-C2	-2.14	105.90	109.99
3	14-D	4	BGC	C6-C5-C4	-2.14	107.99	113.00
3	16-F	5	BGC	C2-C3-C4	2.14	114.59	110.89
2	2-E	6	BGC	C1-O5-C5	2.14	115.09	112.19
2	18-C	6	BGC	O3-C3-C2	-2.14	105.90	109.99
3	9-F	3	BGC	O6-C6-C5	2.14	118.62	111.29
3	11-F	5	BGC	C2-C3-C4	2.14	114.59	110.89
3	12-F	3	BGC	C1-O5-C5	2.14	115.08	112.19
3	12-D	1	BGC	O3-C3-C2	-2.13	105.42	110.35
2	14-E	2	BGC	O2-C2-C3	-2.13	105.87	110.14
3	13-D	5	BGC	C2-C3-C4	2.13	114.58	110.89
3	9-D	5	BGC	O5-C1-C2	-2.13	107.48	110.77
2	12-C	1	BGC	O3-C3-C4	2.13	115.27	110.35
2	7-C	1	BGC	O5-C1-C2	-2.13	106.49	110.28
2	1-E	6	BGC	O3-C3-C4	-2.13	105.43	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	12-D	3	BGC	O2-C2-C3	-2.13	105.88	110.14
3	18-F	1	BGC	O6-C6-C5	2.12	118.58	111.29
3	12-D	2	BGC	C3-C4-C5	2.12	114.02	110.24
2	20-E	6	BGC	O3-C3-C4	-2.12	105.44	110.35
2	6-C	2	BGC	O5-C5-C6	-2.12	103.88	107.20
3	8-D	5	BGC	O5-C5-C4	2.12	115.99	110.83
3	5-D	3	BGC	C1-C2-C3	2.12	112.27	109.67
3	1-F	4	BGC	C1-C2-C3	2.12	112.27	109.67
2	11-E	6	BGC	O5-C5-C6	-2.12	103.88	107.20
2	17-E	1	BGC	C1-C2-C3	2.12	114.71	110.31
3	18-D	4	BGC	O5-C1-C2	-2.12	107.50	110.77
3	24-F	3	BGC	O3-C3-C2	-2.12	105.94	109.99
3	13-D	4	BGC	C1-C2-C3	2.12	112.27	109.67
3	4-D	1	BGC	C4-C3-C2	2.12	114.52	110.82
2	13-E	6	BGC	O5-C1-C2	2.12	114.04	110.77
3	20-F	1	BGC	O6-C6-C5	2.12	118.55	111.29
3	19-F	5	BGC	C2-C3-C4	2.11	114.55	110.89
2	4-C	3	BGC	O3-C3-C2	-2.11	105.95	109.99
2	15-E	1	BGC	O2-C2-C1	-2.11	104.26	109.16
3	11-F	1	BGC	O3-C3-C2	-2.11	105.47	110.35
2	11-C	6	BGC	C1-C2-C3	2.11	112.26	109.67
3	23-D	4	BGC	O6-C6-C5	2.11	118.53	111.29
2	12-E	4	BGC	O5-C5-C6	-2.11	103.89	107.20
3	16-F	1	BGC	C4-C3-C2	2.11	114.51	110.82
2	2-C	5	BGC	O3-C3-C4	-2.11	105.47	110.35
2	8-C	4	BGC	O5-C1-C2	-2.11	107.52	110.77
2	6-C	2	BGC	O6-C6-C5	2.11	118.52	111.29
2	6-C	5	BGC	O3-C3-C4	-2.11	105.48	110.35
2	1-C	5	BGC	C1-O5-C5	-2.10	109.34	112.19
2	6-C	1	BGC	O2-C2-C3	2.10	115.22	110.35
3	15-D	1	BGC	O6-C6-C5	2.10	118.51	111.29
2	2-C	5	BGC	O5-C5-C6	-2.10	103.91	107.20
2	9-C	1	BGC	O5-C5-C4	2.10	113.51	109.69
3	4-D	3	BGC	O5-C5-C6	2.10	110.50	107.20
2	17-C	4	BGC	O5-C5-C6	2.10	110.50	107.20
2	13-C	5	BGC	O3-C3-C4	-2.10	105.50	110.35
2	6-C	3	BGC	O4-C4-C3	2.10	115.20	110.35
3	25-D	4	BGC	C3-C4-C5	-2.10	106.50	110.24
2	14-E	6	BGC	O3-C3-C4	-2.10	105.50	110.35
2	14-C	5	BGC	O5-C1-C2	-2.10	107.53	110.77
2	2-E	6	BGC	O3-C3-C4	-2.10	105.50	110.35
2	19-C	6	BGC	O3-C3-C2	-2.10	105.98	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-C	1	BGC	C1-O5-C5	-2.10	109.71	113.66
3	5-D	4	BGC	O6-C6-C5	2.09	118.48	111.29
3	25-D	1	BGC	O5-C5-C4	2.09	113.50	109.69
3	25-D	5	BGC	C1-C2-C3	2.09	112.24	109.67
2	5-C	6	BGC	O3-C3-C4	-2.09	105.51	110.35
3	12-D	4	BGC	C3-C4-C5	-2.09	106.50	110.24
2	7-C	3	BGC	O3-C3-C2	-2.09	105.99	109.99
3	19-D	3	BGC	O6-C6-C5	2.09	118.47	111.29
3	13-F	3	BGC	O3-C3-C2	-2.09	105.99	109.99
3	12-F	5	BGC	O5-C1-C2	-2.09	107.54	110.77
2	4-C	3	BGC	O3-C3-C4	-2.09	105.51	110.35
2	25-C	4	BGC	O5-C5-C4	-2.09	105.74	110.83
2	10-C	6	BGC	C1-C2-C3	2.09	112.24	109.67
2	4-E	4	BGC	O2-C2-C3	2.09	114.32	110.14
3	4-D	4	BGC	O5-C5-C4	-2.09	105.74	110.83
3	17-D	4	BGC	C1-C2-C3	2.09	112.23	109.67
3	3-D	1	BGC	O3-C3-C2	-2.09	105.52	110.35
2	4-C	1	BGC	O3-C3-C4	2.09	115.18	110.35
3	23-F	1	BGC	C1-O5-C5	2.09	117.60	113.66
2	18-E	2	BGC	O5-C1-C2	-2.09	107.55	110.77
3	19-F	5	BGC	O5-C1-C2	-2.09	107.55	110.77
3	9-F	3	BGC	C2-C3-C4	2.08	114.50	110.89
3	5-F	5	BGC	C1-O5-C5	-2.08	109.37	112.19
2	11-C	1	BGC	O5-C5-C4	2.08	113.48	109.69
2	13-E	3	BGC	C2-C3-C4	2.08	114.50	110.89
2	3-C	4	BGC	O3-C3-C2	-2.08	106.01	109.99
3	3-F	4	BGC	C1-C2-C3	2.08	112.22	109.67
3	6-D	4	BGC	C1-O5-C5	2.08	115.01	112.19
2	11-E	1	BGC	O4-C4-C5	-2.08	104.13	109.30
2	23-E	1	BGC	O2-C2-C3	2.08	115.16	110.35
2	19-C	2	BGC	C1-O5-C5	-2.08	109.38	112.19
2	25-E	1	BGC	C1-O5-C5	-2.08	109.74	113.66
2	3-E	1	BGC	O2-C2-C3	2.08	115.15	110.35
2	19-E	1	BGC	O2-C2-C3	2.07	115.15	110.35
2	8-E	4	BGC	O5-C1-C2	-2.07	107.57	110.77
3	23-F	4	BGC	O5-C5-C6	2.07	110.45	107.20
3	6-D	3	BGC	C3-C4-C5	2.07	113.94	110.24
2	2-C	6	BGC	O3-C3-C4	-2.07	105.56	110.35
2	12-C	2	BGC	C1-O5-C5	-2.07	109.38	112.19
3	11-F	1	BGC	C4-C3-C2	2.07	114.44	110.82
3	17-F	3	BGC	C1-O5-C5	2.07	115.00	112.19
2	24-E	6	BGC	C1-O5-C5	-2.07	109.39	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	25-F	3	BGC	O5-C5-C4	2.07	115.86	110.83
2	12-C	4	BGC	O5-C1-C2	-2.07	107.58	110.77
2	6-C	1	BGC	O5-C5-C4	2.07	113.44	109.69
2	25-C	5	BGC	O3-C3-C2	-2.07	106.04	109.99
3	22-F	3	BGC	O5-C5-C6	2.06	110.44	107.20
2	2-C	4	BGC	O3-C3-C2	-2.06	106.04	109.99
3	21-D	3	BGC	C2-C3-C4	2.06	114.47	110.89
2	24-C	5	BGC	O3-C3-C4	-2.06	105.58	110.35
2	25-E	2	BGC	O5-C1-C2	-2.06	107.59	110.77
3	24-F	2	BGC	C3-C4-C5	2.06	113.92	110.24
2	18-E	6	BGC	O3-C3-C4	-2.06	105.58	110.35
2	19-C	5	BGC	O5-C5-C6	-2.06	103.98	107.20
2	12-E	5	BGC	C3-C4-C5	2.06	113.91	110.24
3	19-D	2	BGC	C3-C4-C5	2.06	113.91	110.24
3	3-D	2	BGC	O2-C2-C1	2.06	113.36	109.15
2	25-C	4	BGC	O6-C6-C5	2.06	118.34	111.29
3	17-D	2	BGC	O2-C2-C3	2.06	114.25	110.14
3	22-F	4	BGC	O2-C2-C3	2.05	114.25	110.14
2	21-C	2	BGC	O6-C6-C5	2.05	118.33	111.29
2	1-E	2	BGC	O3-C3-C2	-2.05	106.07	109.99
3	4-D	1	BGC	O3-C3-C2	-2.05	105.61	110.35
2	5-E	6	BGC	O5-C5-C4	-2.05	105.85	110.83
3	6-D	4	BGC	O6-C6-C5	2.05	118.31	111.29
3	7-F	3	BGC	O2-C2-C3	2.04	114.23	110.14
3	10-F	2	BGC	O5-C1-C2	2.04	113.92	110.77
3	13-F	5	BGC	C2-C3-C4	2.04	114.43	110.89
2	4-E	5	BGC	O5-C5-C4	-2.04	105.86	110.83
3	8-F	3	BGC	O3-C3-C2	-2.04	106.09	109.99
3	12-D	2	BGC	O5-C5-C6	2.04	110.40	107.20
3	12-D	1	BGC	O3-C3-C4	2.04	115.06	110.35
2	15-C	6	BGC	O5-C5-C4	-2.03	105.88	110.83
3	9-D	4	BGC	C1-C2-C3	2.03	112.17	109.67
3	18-D	1	BGC	O6-C6-C5	2.03	118.26	111.29
3	3-D	1	BGC	O6-C6-C5	2.03	118.26	111.29
2	17-E	3	BGC	C2-C3-C4	2.03	114.41	110.89
3	1-F	2	BGC	O2-C2-C1	2.03	113.31	109.15
3	13-D	5	BGC	O3-C3-C2	2.03	113.88	109.99
2	15-C	1	BGC	O3-C3-C4	2.03	115.04	110.35
3	2-F	1	BGC	O6-C6-C5	2.03	118.25	111.29
3	11-F	1	BGC	C1-C2-C3	2.03	114.52	110.31
3	23-D	4	BGC	O5-C1-C2	-2.03	107.64	110.77
2	6-C	6	BGC	C1-C2-C3	2.03	112.16	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	13-F	1	BGC	O4-C4-C3	2.03	115.04	110.35
3	21-F	3	BGC	C3-C4-C5	2.03	113.85	110.24
3	14-D	3	BGC	O6-C6-C5	2.03	118.24	111.29
2	22-C	2	BGC	C1-O5-C5	-2.02	109.45	112.19
3	19-D	1	BGC	O5-C5-C4	2.02	113.37	109.69
3	12-D	1	BGC	O6-C6-C5	2.02	118.23	111.29
3	20-D	1	BGC	O5-C5-C6	2.02	111.46	106.44
2	4-E	3	BGC	O3-C3-C2	-2.02	106.12	109.99
2	17-E	5	BGC	O3-C3-C2	-2.02	106.12	109.99
3	6-D	1	BGC	O3-C3-C4	-2.02	105.68	110.35
2	13-E	2	BGC	C2-C3-C4	2.02	114.39	110.89
3	4-F	3	BGC	O3-C3-C2	-2.02	106.13	109.99
2	18-E	5	BGC	O4-C4-C5	2.02	114.31	109.30
3	4-D	1	BGC	O5-C5-C4	2.02	113.36	109.69
3	19-F	1	BGC	O6-C6-C5	2.02	118.21	111.29
2	17-E	6	BGC	O5-C5-C6	-2.01	104.05	107.20
3	24-D	3	BGC	O6-C6-C5	2.01	118.20	111.29
3	17-D	4	BGC	C3-C4-C5	-2.01	106.65	110.24
2	10-C	2	BGC	C1-O5-C5	-2.01	109.47	112.19
3	9-D	1	BGC	O5-C5-C4	2.01	113.35	109.69
2	7-C	5	BGC	O3-C3-C4	-2.01	105.70	110.35
3	14-D	4	BGC	O5-C1-C2	-2.01	107.67	110.77
3	4-D	4	BGC	O3-C3-C2	2.01	113.85	109.99
2	13-E	1	BGC	O3-C3-C2	-2.01	105.70	110.35
2	8-C	1	BGC	C1-O5-C5	-2.01	109.87	113.66
3	20-F	3	BGC	C1-O5-C5	2.01	114.91	112.19
3	6-D	3	BGC	O5-C5-C6	2.01	110.35	107.20
3	23-F	5	BGC	C6-C5-C4	2.01	117.70	113.00
3	17-D	5	BGC	O5-C1-C2	-2.01	107.67	110.77
3	7-D	3	BGC	O6-C6-C5	2.01	118.17	111.29
3	3-D	3	BGC	O6-C6-C5	2.00	118.17	111.29
2	9-C	6	BGC	O5-C5-C4	-2.00	105.95	110.83
2	14-C	1	BGC	O3-C3-C4	2.00	114.98	110.35
2	11-C	1	BGC	O3-C3-C4	2.00	114.98	110.35
3	22-F	3	BGC	O6-C6-C5	2.00	118.16	111.29
2	3-E	4	BGC	C1-O5-C5	2.00	114.90	112.19
2	11-E	3	BGC	C1-O5-C5	-2.00	109.48	112.19
3	21-D	5	BGC	C2-C3-C4	2.00	114.36	110.89
3	19-F	3	BGC	C1-C2-C3	2.00	112.12	109.67
2	9-E	6	BGC	O5-C5-C6	-2.00	104.07	107.20
3	7-F	3	BGC	O6-C6-C5	2.00	118.15	111.29

There are no chirality outliers.

All (248) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	18-D	1	BGC	C4-C5-C6-O6
2	6-C	2	BGC	C4-C5-C6-O6
2	9-C	6	BGC	C4-C5-C6-O6
3	9-D	4	BGC	C4-C5-C6-O6
2	21-E	1	BGC	O5-C5-C6-O6
3	17-D	4	BGC	C4-C5-C6-O6
2	5-C	3	BGC	O5-C5-C6-O6
2	18-C	3	BGC	O5-C5-C6-O6
3	9-D	4	BGC	O5-C5-C6-O6
3	6-F	3	BGC	O5-C5-C6-O6
2	18-C	6	BGC	C4-C5-C6-O6
3	6-D	1	BGC	C4-C5-C6-O6
3	6-D	4	BGC	C4-C5-C6-O6
3	15-F	4	BGC	C4-C5-C6-O6
2	6-C	2	BGC	O5-C5-C6-O6
3	17-D	4	BGC	O5-C5-C6-O6
3	15-F	1	BGC	O5-C5-C6-O6
2	9-C	6	BGC	O5-C5-C6-O6
2	21-C	6	BGC	C4-C5-C6-O6
2	3-E	6	BGC	C4-C5-C6-O6
3	12-D	4	BGC	C4-C5-C6-O6
3	17-F	1	BGC	C4-C5-C6-O6
3	4-F	4	BGC	C4-C5-C6-O6
3	8-F	4	BGC	C4-C5-C6-O6
3	1-D	1	BGC	O5-C5-C6-O6
3	13-D	1	BGC	O5-C5-C6-O6
3	20-D	1	BGC	O5-C5-C6-O6
3	3-D	1	BGC	C4-C5-C6-O6
3	25-F	4	BGC	C4-C5-C6-O6
2	4-C	3	BGC	O5-C5-C6-O6
3	1-D	4	BGC	O5-C5-C6-O6
3	13-D	4	BGC	O5-C5-C6-O6
3	8-F	1	BGC	O5-C5-C6-O6
2	15-E	1	BGC	C4-C5-C6-O6
3	2-F	1	BGC	C4-C5-C6-O6
3	4-F	1	BGC	C4-C5-C6-O6
2	24-C	6	BGC	O5-C5-C6-O6
2	23-E	6	BGC	O5-C5-C6-O6
3	18-D	1	BGC	O5-C5-C6-O6
3	22-D	1	BGC	O5-C5-C6-O6
3	17-F	1	BGC	O5-C5-C6-O6
3	23-F	1	BGC	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	25-F	4	BGC	O5-C5-C6-O6
3	22-D	1	BGC	C4-C5-C6-O6
3	23-F	1	BGC	C4-C5-C6-O6
2	18-C	6	BGC	O5-C5-C6-O6
2	12-E	5	BGC	O5-C5-C6-O6
3	12-D	1	BGC	O5-C5-C6-O6
2	18-C	3	BGC	C4-C5-C6-O6
2	19-E	6	BGC	C4-C5-C6-O6
3	8-F	1	BGC	C4-C5-C6-O6
2	6-E	1	BGC	O5-C5-C6-O6
2	3-E	4	BGC	O5-C5-C6-O6
3	2-D	1	BGC	O5-C5-C6-O6
3	6-D	4	BGC	O5-C5-C6-O6
3	11-D	4	BGC	O5-C5-C6-O6
3	1-D	1	BGC	C4-C5-C6-O6
3	15-F	1	BGC	C4-C5-C6-O6
3	17-D	1	BGC	O5-C5-C6-O6
3	4-F	4	BGC	O5-C5-C6-O6
3	15-F	4	BGC	O5-C5-C6-O6
2	21-E	1	BGC	C4-C5-C6-O6
2	12-E	5	BGC	C4-C5-C6-O6
2	23-C	3	BGC	O5-C5-C6-O6
2	8-E	2	BGC	O5-C5-C6-O6
3	3-D	1	BGC	O5-C5-C6-O6
3	6-D	1	BGC	O5-C5-C6-O6
3	16-D	1	BGC	O5-C5-C6-O6
3	8-F	4	BGC	O5-C5-C6-O6
3	6-F	3	BGC	C4-C5-C6-O6
2	24-C	1	BGC	O5-C5-C6-O6
2	4-C	2	BGC	C4-C5-C6-O6
2	4-C	3	BGC	C4-C5-C6-O6
2	23-C	5	BGC	C4-C5-C6-O6
3	24-F	1	BGC	C4-C5-C6-O6
2	1-C	5	BGC	C4-C5-C6-O6
3	21-D	1	BGC	C4-C5-C6-O6
3	1-D	4	BGC	C4-C5-C6-O6
3	3-F	3	BGC	O5-C5-C6-O6
2	6-E	1	BGC	C4-C5-C6-O6
2	3-E	4	BGC	C4-C5-C6-O6
3	16-D	1	BGC	C4-C5-C6-O6
3	20-D	1	BGC	C4-C5-C6-O6
2	9-C	1	BGC	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	23-D	2	BGC	O5-C5-C6-O6
2	5-C	3	BGC	C4-C5-C6-O6
2	16-C	4	BGC	O5-C5-C6-O6
3	13-D	1	BGC	C4-C5-C6-O6
3	15-D	1	BGC	C4-C5-C6-O6
3	17-D	1	BGC	C4-C5-C6-O6
2	23-C	1	BGC	O5-C5-C6-O6
2	21-C	6	BGC	O5-C5-C6-O6
3	12-D	4	BGC	O5-C5-C6-O6
3	4-F	1	BGC	O5-C5-C6-O6
2	23-C	5	BGC	O5-C5-C6-O6
2	15-E	1	BGC	O5-C5-C6-O6
2	17-E	1	BGC	O5-C5-C6-O6
3	2-F	1	BGC	O5-C5-C6-O6
2	21-E	5	BGC	C4-C5-C6-O6
3	14-F	5	BGC	C4-C5-C6-O6
2	10-C	3	BGC	O5-C5-C6-O6
2	24-C	1	BGC	C4-C5-C6-O6
2	23-C	3	BGC	C4-C5-C6-O6
3	12-D	1	BGC	C4-C5-C6-O6
3	25-F	1	BGC	C4-C5-C6-O6
2	1-C	3	BGC	O5-C5-C6-O6
3	8-D	1	BGC	O5-C5-C6-O6
3	15-D	1	BGC	O5-C5-C6-O6
3	11-F	3	BGC	O5-C5-C6-O6
3	11-F	3	BGC	C4-C5-C6-O6
2	1-C	5	BGC	O5-C5-C6-O6
3	8-D	1	BGC	C4-C5-C6-O6
2	10-E	6	BGC	O5-C5-C6-O6
2	18-E	6	BGC	O5-C5-C6-O6
3	7-D	4	BGC	O5-C5-C6-O6
2	15-C	1	BGC	O5-C5-C6-O6
2	17-E	1	BGC	C4-C5-C6-O6
2	25-E	1	BGC	C4-C5-C6-O6
3	21-F	5	BGC	C4-C5-C6-O6
3	24-F	1	BGC	O5-C5-C6-O6
3	25-D	1	BGC	C4-C5-C6-O6
2	4-C	2	BGC	O5-C5-C6-O6
3	23-D	1	BGC	O5-C5-C6-O6
3	21-D	2	BGC	O5-C5-C6-O6
3	10-F	3	BGC	O5-C5-C6-O6
3	6-D	2	BGC	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	14-D	1	BGC	C4-C5-C6-O6
3	19-D	1	BGC	C4-C5-C6-O6
3	18-F	3	BGC	C4-C5-C6-O6
2	5-C	2	BGC	O5-C5-C6-O6
3	21-D	4	BGC	O5-C5-C6-O6
3	9-F	5	BGC	O5-C5-C6-O6
3	2-D	1	BGC	C4-C5-C6-O6
3	21-D	4	BGC	C4-C5-C6-O6
2	16-C	4	BGC	C4-C5-C6-O6
2	21-E	5	BGC	O5-C5-C6-O6
3	18-F	3	BGC	O5-C5-C6-O6
3	5-F	1	BGC	O5-C5-C6-O6
2	7-C	2	BGC	C4-C5-C6-O6
2	10-C	3	BGC	C4-C5-C6-O6
3	9-F	5	BGC	C4-C5-C6-O6
3	23-F	3	BGC	C4-C5-C6-O6
3	23-F	3	BGC	O5-C5-C6-O6
3	21-F	5	BGC	O5-C5-C6-O6
2	11-E	1	BGC	O5-C5-C6-O6
2	21-E	4	BGC	O5-C5-C6-O6
3	9-D	2	BGC	O5-C5-C6-O6
2	5-C	2	BGC	C4-C5-C6-O6
3	4-D	1	BGC	C4-C5-C6-O6
3	18-F	5	BGC	O5-C5-C6-O6
2	23-C	1	BGC	C4-C5-C6-O6
3	14-D	1	BGC	O5-C5-C6-O6
2	21-E	4	BGC	C4-C5-C6-O6
2	1-C	4	BGC	O5-C5-C6-O6
2	23-E	1	BGC	O5-C5-C6-O6
3	2-D	2	BGC	O5-C5-C6-O6
3	7-D	1	BGC	C4-C5-C6-O6
2	3-E	6	BGC	O5-C5-C6-O6
3	13-D	4	BGC	C4-C5-C6-O6
3	14-F	5	BGC	O5-C5-C6-O6
2	5-C	1	BGC	O5-C5-C6-O6
2	9-E	1	BGC	O5-C5-C6-O6
3	19-D	1	BGC	O5-C5-C6-O6
3	24-D	2	BGC	O5-C5-C6-O6
2	9-C	1	BGC	C4-C5-C6-O6
3	9-F	1	BGC	O5-C5-C6-O6
2	20-C	5	BGC	O5-C5-C6-O6
3	4-D	2	BGC	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
3	10-D	1	BGC	O5-C5-C6-O6
3	4-D	5	BGC	C4-C5-C6-O6
3	25-F	1	BGC	O5-C5-C6-O6
3	24-F	3	BGC	O5-C5-C6-O6
2	20-C	5	BGC	C4-C5-C6-O6
3	3-F	3	BGC	C4-C5-C6-O6
2	23-E	6	BGC	C4-C5-C6-O6
3	4-D	5	BGC	O5-C5-C6-O6
2	19-E	1	BGC	C4-C5-C6-O6
3	12-D	2	BGC	C4-C5-C6-O6
3	1-F	3	BGC	O5-C5-C6-O6
2	24-E	1	BGC	C4-C5-C6-O6
2	11-C	6	BGC	O5-C5-C6-O6
2	1-C	3	BGC	C4-C5-C6-O6
2	18-E	6	BGC	C4-C5-C6-O6
3	8-F	3	BGC	O5-C5-C6-O6
2	15-E	3	BGC	C4-C5-C6-O6
3	22-F	5	BGC	C4-C5-C6-O6
3	4-D	1	BGC	O5-C5-C6-O6
2	25-E	1	BGC	O5-C5-C6-O6
3	23-D	2	BGC	C4-C5-C6-O6
3	24-F	3	BGC	C4-C5-C6-O6
3	21-F	1	BGC	O5-C5-C6-O6
2	24-C	6	BGC	C4-C5-C6-O6
3	20-D	4	BGC	C4-C5-C6-O6
3	21-D	1	BGC	O5-C5-C6-O6
3	23-D	3	BGC	O5-C5-C6-O6
3	5-F	1	BGC	C4-C5-C6-O6
3	13-F	5	BGC	C4-C5-C6-O6
3	11-D	4	BGC	C4-C5-C6-O6
3	3-F	1	BGC	C4-C5-C6-O6
2	11-C	1	BGC	O5-C5-C6-O6
2	25-E	5	BGC	O5-C5-C6-O6
2	25-E	5	BGC	C4-C5-C6-O6
3	15-D	5	BGC	C4-C5-C6-O6
3	23-D	4	BGC	C4-C5-C6-O6
3	23-D	4	BGC	O5-C5-C6-O6
2	9-E	6	BGC	O5-C5-C6-O6
2	3-E	1	BGC	C4-C5-C6-O6
3	25-D	1	BGC	O5-C5-C6-O6
3	23-D	3	BGC	C4-C5-C6-O6
3	7-F	5	BGC	C4-C5-C6-O6

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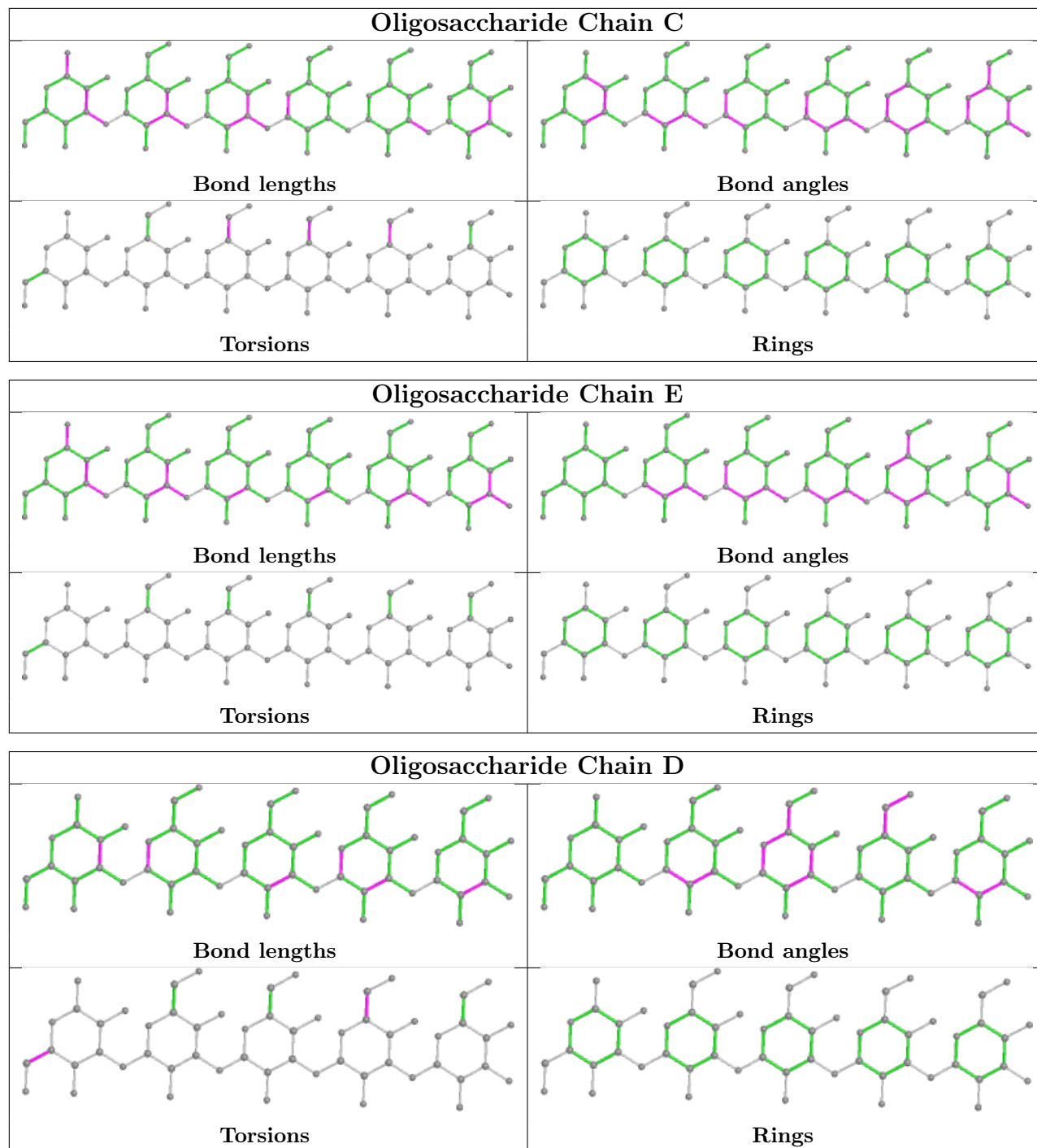
Mol	Chain	Res	Type	Atoms
2	24-E	1	BGC	O5-C5-C6-O6
2	12-C	6	BGC	O5-C5-C6-O6
2	7-E	3	BGC	O5-C5-C6-O6
2	1-C	4	BGC	C4-C5-C6-O6
3	24-D	1	BGC	C4-C5-C6-O6
2	23-C	4	BGC	O5-C5-C6-O6
3	19-F	3	BGC	O5-C5-C6-O6
3	16-D	3	BGC	C4-C5-C6-O6
3	10-F	3	BGC	C4-C5-C6-O6
2	23-E	1	BGC	C4-C5-C6-O6
3	7-D	1	BGC	O5-C5-C6-O6
2	19-E	6	BGC	O5-C5-C6-O6
2	8-E	2	BGC	C4-C5-C6-O6
3	18-F	5	BGC	C4-C5-C6-O6
2	11-E	1	BGC	C4-C5-C6-O6
2	22-C	3	BGC	C4-C5-C6-O6
3	5-D	1	BGC	C4-C5-C6-O6
3	20-D	4	BGC	O5-C5-C6-O6
3	22-D	3	BGC	O5-C5-C6-O6
3	3-D	4	BGC	C4-C5-C6-O6
3	22-F	5	BGC	O5-C5-C6-O6
3	18-F	4	BGC	C4-C5-C6-O6
3	12-D	3	BGC	O5-C5-C6-O6
3	9-D	5	BGC	C4-C5-C6-O6
2	4-C	1	BGC	C4-C5-C6-O6
2	25-C	1	BGC	O5-C5-C6-O6
2	11-C	4	BGC	C4-C5-C6-O6
3	14-D	4	BGC	C4-C5-C6-O6
2	13-C	6	BGC	O5-C5-C6-O6
3	15-F	2	BGC	C4-C5-C6-O6
3	7-D	5	BGC	C4-C5-C6-O6
2	24-C	3	BGC	O5-C5-C6-O6
2	19-E	1	BGC	O5-C5-C6-O6
2	18-C	4	BGC	C4-C5-C6-O6
3	2-F	5	BGC	C4-C5-C6-O6
2	16-E	6	BGC	C4-C5-C6-O6
3	25-F	5	BGC	C4-C5-C6-O6
2	2-E	6	BGC	O5-C5-C6-O6

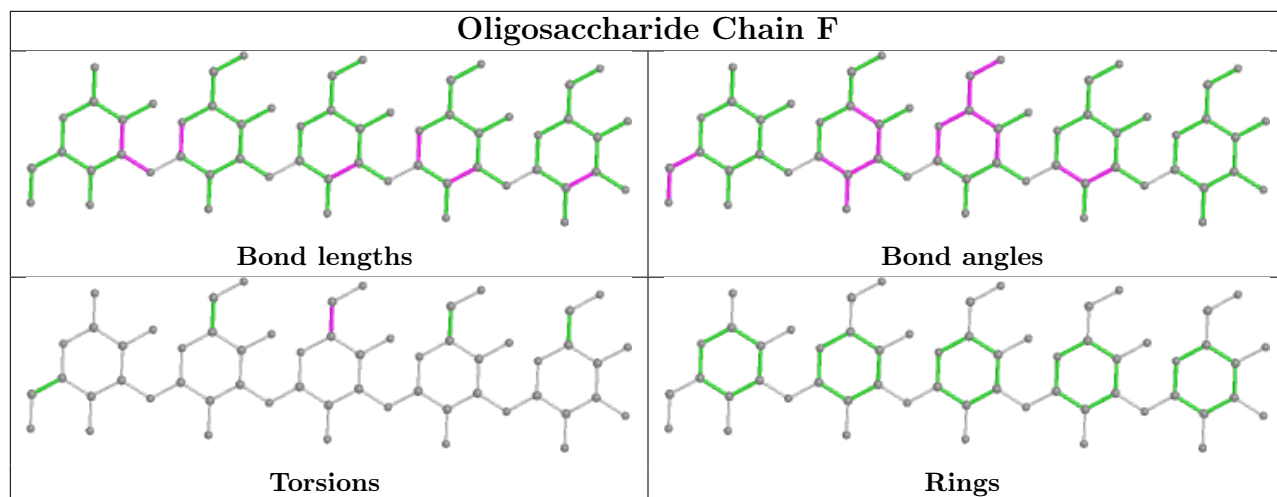
There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths,

bond angles, torsion angles, and ring geometry for oligosaccharide.





## 5.6 Ligand geometry [i](#)

50 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
4	EDO	15-B	701	-	3,3,3	0.53	0	2,2,2	0.38	0
4	EDO	9-A	701	-	3,3,3	0.39	0	2,2,2	0.30	0
4	EDO	11-A	701	-	3,3,3	0.43	0	2,2,2	0.27	0
4	EDO	24-B	701	-	3,3,3	0.71	0	2,2,2	1.30	0
4	EDO	13-B	701	-	3,3,3	0.56	0	2,2,2	0.27	0
4	EDO	23-B	701	-	3,3,3	0.80	0	2,2,2	0.46	0
4	EDO	25-B	701	-	3,3,3	0.46	0	2,2,2	0.49	0
4	EDO	6-A	701	-	3,3,3	0.44	0	2,2,2	0.56	0
4	EDO	11-B	701	-	3,3,3	0.37	0	2,2,2	0.22	0
4	EDO	7-B	701	-	3,3,3	0.44	0	2,2,2	0.18	0
4	EDO	15-A	701	-	3,3,3	0.45	0	2,2,2	0.31	0
4	EDO	2-A	701	-	3,3,3	0.47	0	2,2,2	0.33	0
4	EDO	21-A	701	-	3,3,3	0.49	0	2,2,2	0.45	0
4	EDO	16-B	701	-	3,3,3	0.78	0	2,2,2	0.33	0
4	EDO	7-A	701	-	3,3,3	0.59	0	2,2,2	0.32	0
4	EDO	6-B	701	-	3,3,3	0.50	0	2,2,2	1.70	1 (50%)
4	EDO	19-B	701	-	3,3,3	0.61	0	2,2,2	0.32	0
4	EDO	16-A	701	-	3,3,3	0.58	0	2,2,2	0.33	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	EDO	19-A	701	-	3,3,3	0.44	0	2,2,2	0.19	0
4	EDO	25-A	701	-	3,3,3	0.50	0	2,2,2	0.21	0
4	EDO	10-B	701	-	3,3,3	0.79	0	2,2,2	0.78	0
4	EDO	14-A	701	-	3,3,3	0.52	0	2,2,2	0.16	0
4	EDO	12-B	701	-	3,3,3	0.57	0	2,2,2	0.28	0
4	EDO	20-A	701	-	3,3,3	0.43	0	2,2,2	0.56	0
4	EDO	3-B	701	-	3,3,3	0.39	0	2,2,2	0.51	0
4	EDO	22-A	701	-	3,3,3	0.57	0	2,2,2	0.39	0
4	EDO	5-A	701	-	3,3,3	0.78	0	2,2,2	0.23	0
4	EDO	4-A	701	-	3,3,3	0.48	0	2,2,2	0.15	0
4	EDO	21-B	701	-	3,3,3	0.42	0	2,2,2	0.31	0
4	EDO	1-A	701	-	3,3,3	0.53	0	2,2,2	0.20	0
4	EDO	10-A	701	-	3,3,3	0.42	0	2,2,2	0.40	0
4	EDO	18-A	701	-	3,3,3	0.47	0	2,2,2	0.23	0
4	EDO	12-A	701	-	3,3,3	0.60	0	2,2,2	0.28	0
4	EDO	17-B	701	-	3,3,3	0.40	0	2,2,2	1.11	0
4	EDO	3-A	701	-	3,3,3	0.25	0	2,2,2	0.98	0
4	EDO	8-A	701	-	3,3,3	0.49	0	2,2,2	0.76	0
4	EDO	24-A	701	-	3,3,3	0.43	0	2,2,2	0.51	0
4	EDO	20-B	701	-	3,3,3	0.68	0	2,2,2	0.52	0
4	EDO	13-A	701	-	3,3,3	0.52	0	2,2,2	0.16	0
4	EDO	23-A	701	-	3,3,3	0.42	0	2,2,2	0.46	0
4	EDO	22-B	701	-	3,3,3	0.40	0	2,2,2	0.30	0
4	EDO	9-B	701	-	3,3,3	0.49	0	2,2,2	0.07	0
4	EDO	5-B	701	-	3,3,3	0.50	0	2,2,2	0.66	0
4	EDO	4-B	701	-	3,3,3	0.69	0	2,2,2	0.43	0
4	EDO	17-A	701	-	3,3,3	0.46	0	2,2,2	0.74	0
4	EDO	14-B	701	-	3,3,3	0.40	0	2,2,2	0.56	0
4	EDO	2-B	701	-	3,3,3	0.66	0	2,2,2	0.46	0
4	EDO	1-B	701	-	3,3,3	0.62	0	2,2,2	0.74	0
4	EDO	18-B	701	-	3,3,3	0.41	0	2,2,2	0.30	0
4	EDO	8-B	701	-	3,3,3	0.34	0	2,2,2	0.75	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EDO	15-B	701	-	-	0/1/1/1	-
4	EDO	9-A	701	-	-	0/1/1/1	-
4	EDO	11-A	701	-	-	0/1/1/1	-
4	EDO	24-B	701	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EDO	13-B	701	-	-	0/1/1/1	-
4	EDO	23-B	701	-	-	0/1/1/1	-
4	EDO	25-B	701	-	-	0/1/1/1	-
4	EDO	6-A	701	-	-	0/1/1/1	-
4	EDO	11-B	701	-	-	1/1/1/1	-
4	EDO	7-B	701	-	-	0/1/1/1	-
4	EDO	15-A	701	-	-	0/1/1/1	-
4	EDO	2-A	701	-	-	0/1/1/1	-
4	EDO	21-A	701	-	-	0/1/1/1	-
4	EDO	16-B	701	-	-	1/1/1/1	-
4	EDO	7-A	701	-	-	1/1/1/1	-
4	EDO	6-B	701	-	-	1/1/1/1	-
4	EDO	19-B	701	-	-	1/1/1/1	-
4	EDO	16-A	701	-	-	1/1/1/1	-
4	EDO	19-A	701	-	-	1/1/1/1	-
4	EDO	25-A	701	-	-	0/1/1/1	-
4	EDO	10-B	701	-	-	1/1/1/1	-
4	EDO	14-A	701	-	-	0/1/1/1	-
4	EDO	12-B	701	-	-	0/1/1/1	-
4	EDO	20-A	701	-	-	0/1/1/1	-
4	EDO	3-B	701	-	-	0/1/1/1	-
4	EDO	22-A	701	-	-	0/1/1/1	-
4	EDO	5-A	701	-	-	1/1/1/1	-
4	EDO	4-A	701	-	-	0/1/1/1	-
4	EDO	21-B	701	-	-	0/1/1/1	-
4	EDO	1-A	701	-	-	0/1/1/1	-
4	EDO	10-A	701	-	-	0/1/1/1	-
4	EDO	18-A	701	-	-	0/1/1/1	-
4	EDO	12-A	701	-	-	1/1/1/1	-
4	EDO	17-B	701	-	-	1/1/1/1	-
4	EDO	3-A	701	-	-	1/1/1/1	-
4	EDO	8-A	701	-	-	1/1/1/1	-
4	EDO	24-A	701	-	-	0/1/1/1	-
4	EDO	20-B	701	-	-	1/1/1/1	-
4	EDO	13-A	701	-	-	1/1/1/1	-
4	EDO	23-A	701	-	-	0/1/1/1	-
4	EDO	22-B	701	-	-	1/1/1/1	-
4	EDO	9-B	701	-	-	1/1/1/1	-
4	EDO	5-B	701	-	-	1/1/1/1	-
4	EDO	4-B	701	-	-	1/1/1/1	-
4	EDO	17-A	701	-	-	0/1/1/1	-
4	EDO	14-B	701	-	-	1/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EDO	2-B	701	-	-	1/1/1/1	-
4	EDO	1-B	701	-	-	1/1/1/1	-
4	EDO	18-B	701	-	-	0/1/1/1	-
4	EDO	8-B	701	-	-	1/1/1/1	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-B	701	EDO	O2-C2-C1	-2.32	95.20	111.91

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	5-A	701	EDO	O1-C1-C2-O2
4	8-A	701	EDO	O1-C1-C2-O2
4	12-A	701	EDO	O1-C1-C2-O2
4	10-B	701	EDO	O1-C1-C2-O2
4	14-B	701	EDO	O1-C1-C2-O2
4	17-B	701	EDO	O1-C1-C2-O2
4	19-B	701	EDO	O1-C1-C2-O2
4	3-A	701	EDO	O1-C1-C2-O2
4	8-B	701	EDO	O1-C1-C2-O2
4	16-B	701	EDO	O1-C1-C2-O2
4	22-B	701	EDO	O1-C1-C2-O2
4	4-B	701	EDO	O1-C1-C2-O2
4	19-A	701	EDO	O1-C1-C2-O2
4	5-B	701	EDO	O1-C1-C2-O2
4	6-B	701	EDO	O1-C1-C2-O2
4	11-B	701	EDO	O1-C1-C2-O2
4	16-A	701	EDO	O1-C1-C2-O2
4	2-B	701	EDO	O1-C1-C2-O2
4	7-A	701	EDO	O1-C1-C2-O2
4	13-A	701	EDO	O1-C1-C2-O2
4	9-B	701	EDO	O1-C1-C2-O2
4	20-B	701	EDO	O1-C1-C2-O2
4	1-B	701	EDO	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	1-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	1-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	2-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	2-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	3-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	3-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	4-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	4-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	5-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	5-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	6-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	6-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	7-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	7-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	8-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	8-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	9-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	9-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	10-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	10-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	11-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	11-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	12-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	12-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	13-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	13-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	14-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	14-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	15-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	15-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	16-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	16-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	17-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	17-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	18-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	18-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	19-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	19-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	20-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	20-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	21-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	21-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	22-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	22-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	23-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	23-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	24-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	24-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
1	25-A	549/549 (100%)	0.24	41 (7%) 14 19	13, 14, 15, 16	549 (100%)
1	25-B	548/549 (99%)	0.17	42 (7%) 13 18	13, 14, 15, 16	548 (100%)
All	All	27425/27450 (99%)	0.21	2075 (7%) 16 18	13, 14, 15, 16	27425 (100%)

All (2075) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1-A	57	GLU	10.3
1	2-A	57	GLU	10.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	3-A	57	GLU	10.3
1	4-A	57	GLU	10.3
1	5-A	57	GLU	10.3
1	6-A	57	GLU	10.3
1	7-A	57	GLU	10.3
1	8-A	57	GLU	10.3
1	9-A	57	GLU	10.3
1	10-A	57	GLU	10.3
1	11-A	57	GLU	10.3
1	12-A	57	GLU	10.3
1	13-A	57	GLU	10.3
1	14-A	57	GLU	10.3
1	15-A	57	GLU	10.3
1	16-A	57	GLU	10.3
1	17-A	57	GLU	10.3
1	18-A	57	GLU	10.3
1	19-A	57	GLU	10.3
1	20-A	57	GLU	10.3
1	21-A	57	GLU	10.3
1	22-A	57	GLU	10.3
1	23-A	57	GLU	10.3
1	24-A	57	GLU	10.3
1	25-A	57	GLU	10.3
1	1-B	296	THR	10.1
1	2-B	296	THR	10.1
1	3-B	296	THR	10.1
1	4-B	296	THR	10.1
1	5-B	296	THR	10.1
1	6-B	296	THR	10.1
1	7-B	296	THR	10.1
1	8-B	296	THR	10.1
1	9-B	296	THR	10.1
1	10-B	296	THR	10.1
1	11-B	296	THR	10.1
1	12-B	296	THR	10.1
1	13-B	296	THR	10.1
1	14-B	296	THR	10.1
1	15-B	296	THR	10.1
1	16-B	296	THR	10.1
1	17-B	296	THR	10.1
1	18-B	296	THR	10.1
1	19-B	296	THR	10.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	20-B	296	THR	10.1
1	21-B	296	THR	10.1
1	22-B	296	THR	10.1
1	23-B	296	THR	10.1
1	24-B	296	THR	10.1
1	25-B	296	THR	10.1
1	1-A	297	PRO	8.0
1	2-A	297	PRO	8.0
1	3-A	297	PRO	8.0
1	4-A	297	PRO	8.0
1	5-A	297	PRO	8.0
1	6-A	297	PRO	8.0
1	7-A	297	PRO	8.0
1	8-A	297	PRO	8.0
1	9-A	297	PRO	8.0
1	10-A	297	PRO	8.0
1	11-A	297	PRO	8.0
1	12-A	297	PRO	8.0
1	13-A	297	PRO	8.0
1	14-A	297	PRO	8.0
1	15-A	297	PRO	8.0
1	16-A	297	PRO	8.0
1	17-A	297	PRO	8.0
1	18-A	297	PRO	8.0
1	19-A	297	PRO	8.0
1	20-A	297	PRO	8.0
1	21-A	297	PRO	8.0
1	22-A	297	PRO	8.0
1	23-A	297	PRO	8.0
1	24-A	297	PRO	8.0
1	25-A	297	PRO	8.0
1	1-A	400	GLY	6.6
1	2-A	400	GLY	6.6
1	3-A	400	GLY	6.6
1	4-A	400	GLY	6.6
1	5-A	400	GLY	6.6
1	6-A	400	GLY	6.6
1	7-A	400	GLY	6.6
1	8-A	400	GLY	6.6
1	9-A	400	GLY	6.6
1	10-A	400	GLY	6.6
1	11-A	400	GLY	6.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	12-A	400	GLY	6.6
1	13-A	400	GLY	6.6
1	14-A	400	GLY	6.6
1	15-A	400	GLY	6.6
1	16-A	400	GLY	6.6
1	17-A	400	GLY	6.6
1	18-A	400	GLY	6.6
1	19-A	400	GLY	6.6
1	20-A	400	GLY	6.6
1	21-A	400	GLY	6.6
1	22-A	400	GLY	6.6
1	23-A	400	GLY	6.6
1	24-A	400	GLY	6.6
1	25-A	400	GLY	6.6
1	1-A	402	SER	6.5
1	2-A	402	SER	6.5
1	3-A	402	SER	6.5
1	4-A	402	SER	6.5
1	5-A	402	SER	6.5
1	6-A	402	SER	6.5
1	7-A	402	SER	6.5
1	8-A	402	SER	6.5
1	9-A	402	SER	6.5
1	10-A	402	SER	6.5
1	11-A	402	SER	6.5
1	12-A	402	SER	6.5
1	13-A	402	SER	6.5
1	14-A	402	SER	6.5
1	15-A	402	SER	6.5
1	16-A	402	SER	6.5
1	17-A	402	SER	6.5
1	18-A	402	SER	6.5
1	19-A	402	SER	6.5
1	20-A	402	SER	6.5
1	21-A	402	SER	6.5
1	22-A	402	SER	6.5
1	23-A	402	SER	6.5
1	24-A	402	SER	6.5
1	25-A	402	SER	6.5
1	1-B	295	GLY	6.2
1	2-B	295	GLY	6.2
1	3-B	295	GLY	6.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	4-B	295	GLY	6.2
1	5-B	295	GLY	6.2
1	6-B	295	GLY	6.2
1	7-B	295	GLY	6.2
1	8-B	295	GLY	6.2
1	9-B	295	GLY	6.2
1	10-B	295	GLY	6.2
1	11-B	295	GLY	6.2
1	12-B	295	GLY	6.2
1	13-B	295	GLY	6.2
1	14-B	295	GLY	6.2
1	15-B	295	GLY	6.2
1	16-B	295	GLY	6.2
1	17-B	295	GLY	6.2
1	18-B	295	GLY	6.2
1	19-B	295	GLY	6.2
1	20-B	295	GLY	6.2
1	21-B	295	GLY	6.2
1	22-B	295	GLY	6.2
1	23-B	295	GLY	6.2
1	24-B	295	GLY	6.2
1	25-B	295	GLY	6.2
1	1-B	126	LEU	6.1
1	2-B	126	LEU	6.1
1	3-B	126	LEU	6.1
1	4-B	126	LEU	6.1
1	5-B	126	LEU	6.1
1	6-B	126	LEU	6.1
1	7-B	126	LEU	6.1
1	8-B	126	LEU	6.1
1	9-B	126	LEU	6.1
1	10-B	126	LEU	6.1
1	11-B	126	LEU	6.1
1	12-B	126	LEU	6.1
1	13-B	126	LEU	6.1
1	14-B	126	LEU	6.1
1	15-B	126	LEU	6.1
1	16-B	126	LEU	6.1
1	17-B	126	LEU	6.1
1	18-B	126	LEU	6.1
1	19-B	126	LEU	6.1
1	20-B	126	LEU	6.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	21-B	126	LEU	6.1
1	22-B	126	LEU	6.1
1	23-B	126	LEU	6.1
1	24-B	126	LEU	6.1
1	25-B	126	LEU	6.1
1	1-A	296	THR	6.0
1	2-A	296	THR	6.0
1	3-A	296	THR	6.0
1	4-A	296	THR	6.0
1	5-A	296	THR	6.0
1	6-A	296	THR	6.0
1	7-A	296	THR	6.0
1	8-A	296	THR	6.0
1	9-A	296	THR	6.0
1	10-A	296	THR	6.0
1	11-A	296	THR	6.0
1	12-A	296	THR	6.0
1	13-A	296	THR	6.0
1	14-A	296	THR	6.0
1	15-A	296	THR	6.0
1	16-A	296	THR	6.0
1	17-A	296	THR	6.0
1	18-A	296	THR	6.0
1	19-A	296	THR	6.0
1	20-A	296	THR	6.0
1	21-A	296	THR	6.0
1	22-A	296	THR	6.0
1	23-A	296	THR	6.0
1	24-A	296	THR	6.0
1	25-A	296	THR	6.0
1	1-B	58	VAL	5.6
1	2-B	58	VAL	5.6
1	3-B	58	VAL	5.6
1	4-B	58	VAL	5.6
1	5-B	58	VAL	5.6
1	6-B	58	VAL	5.6
1	7-B	58	VAL	5.6
1	8-B	58	VAL	5.6
1	9-B	58	VAL	5.6
1	10-B	58	VAL	5.6
1	11-B	58	VAL	5.6
1	12-B	58	VAL	5.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	13-B	58	VAL	5.6
1	14-B	58	VAL	5.6
1	15-B	58	VAL	5.6
1	16-B	58	VAL	5.6
1	17-B	58	VAL	5.6
1	18-B	58	VAL	5.6
1	19-B	58	VAL	5.6
1	20-B	58	VAL	5.6
1	21-B	58	VAL	5.6
1	22-B	58	VAL	5.6
1	23-B	58	VAL	5.6
1	24-B	58	VAL	5.6
1	25-B	58	VAL	5.6
1	1-A	273	GLY	5.4
1	2-A	273	GLY	5.4
1	3-A	273	GLY	5.4
1	4-A	273	GLY	5.4
1	5-A	273	GLY	5.4
1	6-A	273	GLY	5.4
1	7-A	273	GLY	5.4
1	8-A	273	GLY	5.4
1	9-A	273	GLY	5.4
1	10-A	273	GLY	5.4
1	11-A	273	GLY	5.4
1	12-A	273	GLY	5.4
1	13-A	273	GLY	5.4
1	14-A	273	GLY	5.4
1	15-A	273	GLY	5.4
1	16-A	273	GLY	5.4
1	17-A	273	GLY	5.4
1	18-A	273	GLY	5.4
1	19-A	273	GLY	5.4
1	20-A	273	GLY	5.4
1	21-A	273	GLY	5.4
1	22-A	273	GLY	5.4
1	23-A	273	GLY	5.4
1	24-A	273	GLY	5.4
1	25-A	273	GLY	5.4
1	1-A	58	VAL	5.4
1	2-A	58	VAL	5.4
1	3-A	58	VAL	5.4
1	4-A	58	VAL	5.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	5-A	58	VAL	5.4
1	6-A	58	VAL	5.4
1	7-A	58	VAL	5.4
1	8-A	58	VAL	5.4
1	9-A	58	VAL	5.4
1	10-A	58	VAL	5.4
1	11-A	58	VAL	5.4
1	12-A	58	VAL	5.4
1	13-A	58	VAL	5.4
1	14-A	58	VAL	5.4
1	15-A	58	VAL	5.4
1	16-A	58	VAL	5.4
1	17-A	58	VAL	5.4
1	18-A	58	VAL	5.4
1	19-A	58	VAL	5.4
1	20-A	58	VAL	5.4
1	21-A	58	VAL	5.4
1	22-A	58	VAL	5.4
1	23-A	58	VAL	5.4
1	24-A	58	VAL	5.4
1	25-A	58	VAL	5.4
1	1-A	251	GLU	5.0
1	2-A	251	GLU	5.0
1	3-A	251	GLU	5.0
1	4-A	251	GLU	5.0
1	5-A	251	GLU	5.0
1	6-A	251	GLU	5.0
1	7-A	251	GLU	5.0
1	8-A	251	GLU	5.0
1	9-A	251	GLU	5.0
1	10-A	251	GLU	5.0
1	11-A	251	GLU	5.0
1	12-A	251	GLU	5.0
1	13-A	251	GLU	5.0
1	14-A	251	GLU	5.0
1	15-A	251	GLU	5.0
1	16-A	251	GLU	5.0
1	17-A	251	GLU	5.0
1	18-A	251	GLU	5.0
1	19-A	251	GLU	5.0
1	20-A	251	GLU	5.0
1	21-A	251	GLU	5.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	22-A	251	GLU	5.0
1	23-A	251	GLU	5.0
1	24-A	251	GLU	5.0
1	25-A	251	GLU	5.0
1	1-A	293	GLY	4.8
1	2-A	293	GLY	4.8
1	3-A	293	GLY	4.8
1	4-A	293	GLY	4.8
1	5-A	293	GLY	4.8
1	6-A	293	GLY	4.8
1	7-A	293	GLY	4.8
1	8-A	293	GLY	4.8
1	9-A	293	GLY	4.8
1	10-A	293	GLY	4.8
1	11-A	293	GLY	4.8
1	12-A	293	GLY	4.8
1	13-A	293	GLY	4.8
1	14-A	293	GLY	4.8
1	15-A	293	GLY	4.8
1	16-A	293	GLY	4.8
1	17-A	293	GLY	4.8
1	18-A	293	GLY	4.8
1	19-A	293	GLY	4.8
1	20-A	293	GLY	4.8
1	21-A	293	GLY	4.8
1	22-A	293	GLY	4.8
1	23-A	293	GLY	4.8
1	24-A	293	GLY	4.8
1	25-A	293	GLY	4.8
1	1-B	272	ASP	4.3
1	2-B	272	ASP	4.3
1	3-B	272	ASP	4.3
1	4-B	272	ASP	4.3
1	5-B	272	ASP	4.3
1	6-B	272	ASP	4.3
1	7-B	272	ASP	4.3
1	8-B	272	ASP	4.3
1	9-B	272	ASP	4.3
1	10-B	272	ASP	4.3
1	11-B	272	ASP	4.3
1	12-B	272	ASP	4.3
1	13-B	272	ASP	4.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	14-B	272	ASP	4.3
1	15-B	272	ASP	4.3
1	16-B	272	ASP	4.3
1	17-B	272	ASP	4.3
1	18-B	272	ASP	4.3
1	19-B	272	ASP	4.3
1	20-B	272	ASP	4.3
1	21-B	272	ASP	4.3
1	22-B	272	ASP	4.3
1	23-B	272	ASP	4.3
1	24-B	272	ASP	4.3
1	25-B	272	ASP	4.3
1	1-B	294	ASN	4.3
1	2-B	294	ASN	4.3
1	3-B	294	ASN	4.3
1	4-B	294	ASN	4.3
1	5-B	294	ASN	4.3
1	6-B	294	ASN	4.3
1	7-B	294	ASN	4.3
1	8-B	294	ASN	4.3
1	9-B	294	ASN	4.3
1	10-B	294	ASN	4.3
1	11-B	294	ASN	4.3
1	12-B	294	ASN	4.3
1	13-B	294	ASN	4.3
1	14-B	294	ASN	4.3
1	15-B	294	ASN	4.3
1	16-B	294	ASN	4.3
1	17-B	294	ASN	4.3
1	18-B	294	ASN	4.3
1	19-B	294	ASN	4.3
1	20-B	294	ASN	4.3
1	21-B	294	ASN	4.3
1	22-B	294	ASN	4.3
1	23-B	294	ASN	4.3
1	24-B	294	ASN	4.3
1	25-B	294	ASN	4.3
1	1-A	294	ASN	4.2
1	2-A	294	ASN	4.2
1	3-A	294	ASN	4.2
1	4-A	294	ASN	4.2
1	5-A	294	ASN	4.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	6-A	294	ASN	4.2
1	7-A	294	ASN	4.2
1	8-A	294	ASN	4.2
1	9-A	294	ASN	4.2
1	10-A	294	ASN	4.2
1	11-A	294	ASN	4.2
1	12-A	294	ASN	4.2
1	13-A	294	ASN	4.2
1	14-A	294	ASN	4.2
1	15-A	294	ASN	4.2
1	16-A	294	ASN	4.2
1	17-A	294	ASN	4.2
1	18-A	294	ASN	4.2
1	19-A	294	ASN	4.2
1	20-A	294	ASN	4.2
1	21-A	294	ASN	4.2
1	22-A	294	ASN	4.2
1	23-A	294	ASN	4.2
1	24-A	294	ASN	4.2
1	25-A	294	ASN	4.2
1	1-B	59	VAL	4.0
1	2-B	59	VAL	4.0
1	3-B	59	VAL	4.0
1	4-B	59	VAL	4.0
1	5-B	59	VAL	4.0
1	6-B	59	VAL	4.0
1	7-B	59	VAL	4.0
1	8-B	59	VAL	4.0
1	9-B	59	VAL	4.0
1	10-B	59	VAL	4.0
1	11-B	59	VAL	4.0
1	12-B	59	VAL	4.0
1	13-B	59	VAL	4.0
1	14-B	59	VAL	4.0
1	15-B	59	VAL	4.0
1	16-B	59	VAL	4.0
1	17-B	59	VAL	4.0
1	18-B	59	VAL	4.0
1	19-B	59	VAL	4.0
1	20-B	59	VAL	4.0
1	21-B	59	VAL	4.0
1	22-B	59	VAL	4.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	23-B	59	VAL	4.0
1	24-B	59	VAL	4.0
1	25-B	59	VAL	4.0
1	1-A	298	GLU	3.9
1	2-A	298	GLU	3.9
1	3-A	298	GLU	3.9
1	4-A	298	GLU	3.9
1	5-A	298	GLU	3.9
1	6-A	298	GLU	3.9
1	7-A	298	GLU	3.9
1	8-A	298	GLU	3.9
1	9-A	298	GLU	3.9
1	10-A	298	GLU	3.9
1	11-A	298	GLU	3.9
1	12-A	298	GLU	3.9
1	13-A	298	GLU	3.9
1	14-A	298	GLU	3.9
1	15-A	298	GLU	3.9
1	16-A	298	GLU	3.9
1	17-A	298	GLU	3.9
1	18-A	298	GLU	3.9
1	19-A	298	GLU	3.9
1	20-A	298	GLU	3.9
1	21-A	298	GLU	3.9
1	22-A	298	GLU	3.9
1	23-A	298	GLU	3.9
1	24-A	298	GLU	3.9
1	25-A	298	GLU	3.9
1	1-B	274	ASP	3.8
1	2-B	274	ASP	3.8
1	3-B	274	ASP	3.8
1	4-B	274	ASP	3.8
1	5-B	274	ASP	3.8
1	6-B	274	ASP	3.8
1	7-B	274	ASP	3.8
1	8-B	274	ASP	3.8
1	9-B	274	ASP	3.8
1	10-B	274	ASP	3.8
1	11-B	274	ASP	3.8
1	12-B	274	ASP	3.8
1	13-B	274	ASP	3.8
1	14-B	274	ASP	3.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	15-B	274	ASP	3.8
1	16-B	274	ASP	3.8
1	17-B	274	ASP	3.8
1	18-B	274	ASP	3.8
1	19-B	274	ASP	3.8
1	20-B	274	ASP	3.8
1	21-B	274	ASP	3.8
1	22-B	274	ASP	3.8
1	23-B	274	ASP	3.8
1	24-B	274	ASP	3.8
1	25-B	274	ASP	3.8
1	1-B	297	PRO	3.5
1	2-B	297	PRO	3.5
1	3-B	297	PRO	3.5
1	4-B	297	PRO	3.5
1	5-B	297	PRO	3.5
1	6-B	297	PRO	3.5
1	7-B	297	PRO	3.5
1	8-B	297	PRO	3.5
1	9-B	297	PRO	3.5
1	10-B	297	PRO	3.5
1	11-B	297	PRO	3.5
1	12-B	297	PRO	3.5
1	13-B	297	PRO	3.5
1	14-B	297	PRO	3.5
1	15-B	297	PRO	3.5
1	16-B	297	PRO	3.5
1	17-B	297	PRO	3.5
1	18-B	297	PRO	3.5
1	19-B	297	PRO	3.5
1	20-B	297	PRO	3.5
1	21-B	297	PRO	3.5
1	22-B	297	PRO	3.5
1	23-B	297	PRO	3.5
1	24-B	297	PRO	3.5
1	25-B	297	PRO	3.5
1	1-A	274	ASP	3.4
1	2-A	274	ASP	3.4
1	3-A	274	ASP	3.4
1	4-A	274	ASP	3.4
1	5-A	274	ASP	3.4
1	6-A	274	ASP	3.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	7-A	274	ASP	3.4
1	8-A	274	ASP	3.4
1	9-A	274	ASP	3.4
1	10-A	274	ASP	3.4
1	11-A	274	ASP	3.4
1	12-A	274	ASP	3.4
1	13-A	274	ASP	3.4
1	14-A	274	ASP	3.4
1	15-A	274	ASP	3.4
1	16-A	274	ASP	3.4
1	17-A	274	ASP	3.4
1	18-A	274	ASP	3.4
1	19-A	274	ASP	3.4
1	20-A	274	ASP	3.4
1	21-A	274	ASP	3.4
1	22-A	274	ASP	3.4
1	23-A	274	ASP	3.4
1	24-A	274	ASP	3.4
1	25-A	274	ASP	3.4
1	1-A	560	VAL	3.4
1	2-A	560	VAL	3.4
1	3-A	560	VAL	3.4
1	4-A	560	VAL	3.4
1	5-A	560	VAL	3.4
1	6-A	560	VAL	3.4
1	7-A	560	VAL	3.4
1	8-A	560	VAL	3.4
1	9-A	560	VAL	3.4
1	10-A	560	VAL	3.4
1	11-A	560	VAL	3.4
1	12-A	560	VAL	3.4
1	13-A	560	VAL	3.4
1	14-A	560	VAL	3.4
1	15-A	560	VAL	3.4
1	16-A	560	VAL	3.4
1	17-A	560	VAL	3.4
1	18-A	560	VAL	3.4
1	19-A	560	VAL	3.4
1	20-A	560	VAL	3.4
1	21-A	560	VAL	3.4
1	22-A	560	VAL	3.4
1	23-A	560	VAL	3.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	24-A	560	VAL	3.4
1	25-A	560	VAL	3.4
1	1-A	313	GLY	3.4
1	2-A	313	GLY	3.4
1	3-A	313	GLY	3.4
1	4-A	313	GLY	3.4
1	5-A	313	GLY	3.4
1	6-A	313	GLY	3.4
1	7-A	313	GLY	3.4
1	8-A	313	GLY	3.4
1	9-A	313	GLY	3.4
1	10-A	313	GLY	3.4
1	11-A	313	GLY	3.4
1	12-A	313	GLY	3.4
1	13-A	313	GLY	3.4
1	14-A	313	GLY	3.4
1	15-A	313	GLY	3.4
1	16-A	313	GLY	3.4
1	17-A	313	GLY	3.4
1	18-A	313	GLY	3.4
1	19-A	313	GLY	3.4
1	20-A	313	GLY	3.4
1	21-A	313	GLY	3.4
1	22-A	313	GLY	3.4
1	23-A	313	GLY	3.4
1	24-A	313	GLY	3.4
1	25-A	313	GLY	3.4
1	1-B	312	PRO	3.4
1	2-B	312	PRO	3.4
1	3-B	312	PRO	3.4
1	4-B	312	PRO	3.4
1	5-B	312	PRO	3.4
1	6-B	312	PRO	3.4
1	7-B	312	PRO	3.4
1	8-B	312	PRO	3.4
1	9-B	312	PRO	3.4
1	10-B	312	PRO	3.4
1	11-B	312	PRO	3.4
1	12-B	312	PRO	3.4
1	13-B	312	PRO	3.4
1	14-B	312	PRO	3.4
1	15-B	312	PRO	3.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	16-B	312	PRO	3.4
1	17-B	312	PRO	3.4
1	18-B	312	PRO	3.4
1	19-B	312	PRO	3.4
1	20-B	312	PRO	3.4
1	21-B	312	PRO	3.4
1	22-B	312	PRO	3.4
1	23-B	312	PRO	3.4
1	24-B	312	PRO	3.4
1	25-B	312	PRO	3.4
1	1-B	74	SER	3.3
1	2-B	74	SER	3.3
1	3-B	74	SER	3.3
1	4-B	74	SER	3.3
1	5-B	74	SER	3.3
1	6-B	74	SER	3.3
1	7-B	74	SER	3.3
1	8-B	74	SER	3.3
1	9-B	74	SER	3.3
1	10-B	74	SER	3.3
1	11-B	74	SER	3.3
1	12-B	74	SER	3.3
1	13-B	74	SER	3.3
1	14-B	74	SER	3.3
1	15-B	74	SER	3.3
1	16-B	74	SER	3.3
1	17-B	74	SER	3.3
1	18-B	74	SER	3.3
1	19-B	74	SER	3.3
1	20-B	74	SER	3.3
1	21-B	74	SER	3.3
1	22-B	74	SER	3.3
1	23-B	74	SER	3.3
1	24-B	74	SER	3.3
1	25-B	74	SER	3.3
1	1-A	74	SER	3.2
1	2-A	74	SER	3.2
1	3-A	74	SER	3.2
1	4-A	74	SER	3.2
1	5-A	74	SER	3.2
1	6-A	74	SER	3.2
1	7-A	74	SER	3.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	8-A	74	SER	3.2
1	9-A	74	SER	3.2
1	10-A	74	SER	3.2
1	11-A	74	SER	3.2
1	12-A	74	SER	3.2
1	13-A	74	SER	3.2
1	14-A	74	SER	3.2
1	15-A	74	SER	3.2
1	16-A	74	SER	3.2
1	17-A	74	SER	3.2
1	18-A	74	SER	3.2
1	19-A	74	SER	3.2
1	20-A	74	SER	3.2
1	21-A	74	SER	3.2
1	22-A	74	SER	3.2
1	23-A	74	SER	3.2
1	24-A	74	SER	3.2
1	25-A	74	SER	3.2
1	1-A	295	GLY	3.1
1	2-A	295	GLY	3.1
1	3-A	295	GLY	3.1
1	4-A	295	GLY	3.1
1	5-A	295	GLY	3.1
1	6-A	295	GLY	3.1
1	7-A	295	GLY	3.1
1	8-A	295	GLY	3.1
1	9-A	295	GLY	3.1
1	10-A	295	GLY	3.1
1	11-A	295	GLY	3.1
1	12-A	295	GLY	3.1
1	13-A	295	GLY	3.1
1	14-A	295	GLY	3.1
1	15-A	295	GLY	3.1
1	16-A	295	GLY	3.1
1	17-A	295	GLY	3.1
1	18-A	295	GLY	3.1
1	19-A	295	GLY	3.1
1	20-A	295	GLY	3.1
1	21-A	295	GLY	3.1
1	22-A	295	GLY	3.1
1	23-A	295	GLY	3.1
1	24-A	295	GLY	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	25-A	295	GLY	3.1
1	1-A	312	PRO	3.1
1	2-A	312	PRO	3.1
1	3-A	312	PRO	3.1
1	4-A	312	PRO	3.1
1	5-A	312	PRO	3.1
1	6-A	312	PRO	3.1
1	7-A	312	PRO	3.1
1	8-A	312	PRO	3.1
1	9-A	312	PRO	3.1
1	10-A	312	PRO	3.1
1	11-A	312	PRO	3.1
1	12-A	312	PRO	3.1
1	13-A	312	PRO	3.1
1	14-A	312	PRO	3.1
1	15-A	312	PRO	3.1
1	16-A	312	PRO	3.1
1	17-A	312	PRO	3.1
1	18-A	312	PRO	3.1
1	19-A	312	PRO	3.1
1	20-A	312	PRO	3.1
1	21-A	312	PRO	3.1
1	22-A	312	PRO	3.1
1	23-A	312	PRO	3.1
1	24-A	312	PRO	3.1
1	25-A	312	PRO	3.1
1	1-A	401	ALA	3.1
1	2-A	401	ALA	3.1
1	3-A	401	ALA	3.1
1	4-A	401	ALA	3.1
1	5-A	401	ALA	3.1
1	6-A	401	ALA	3.1
1	7-A	401	ALA	3.1
1	8-A	401	ALA	3.1
1	9-A	401	ALA	3.1
1	10-A	401	ALA	3.1
1	11-A	401	ALA	3.1
1	12-A	401	ALA	3.1
1	13-A	401	ALA	3.1
1	14-A	401	ALA	3.1
1	15-A	401	ALA	3.1
1	16-A	401	ALA	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	17-A	401	ALA	3.1
1	18-A	401	ALA	3.1
1	19-A	401	ALA	3.1
1	20-A	401	ALA	3.1
1	21-A	401	ALA	3.1
1	22-A	401	ALA	3.1
1	23-A	401	ALA	3.1
1	24-A	401	ALA	3.1
1	25-A	401	ALA	3.1
1	1-A	324	ASP	3.0
1	2-A	324	ASP	3.0
1	3-A	324	ASP	3.0
1	4-A	324	ASP	3.0
1	5-A	324	ASP	3.0
1	6-A	324	ASP	3.0
1	7-A	324	ASP	3.0
1	8-A	324	ASP	3.0
1	9-A	324	ASP	3.0
1	10-A	324	ASP	3.0
1	11-A	324	ASP	3.0
1	12-A	324	ASP	3.0
1	13-A	324	ASP	3.0
1	14-A	324	ASP	3.0
1	15-A	324	ASP	3.0
1	16-A	324	ASP	3.0
1	17-A	324	ASP	3.0
1	18-A	324	ASP	3.0
1	19-A	324	ASP	3.0
1	20-A	324	ASP	3.0
1	21-A	324	ASP	3.0
1	22-A	324	ASP	3.0
1	23-A	324	ASP	3.0
1	24-A	324	ASP	3.0
1	25-A	324	ASP	3.0
1	1-A	398	SER	3.0
1	2-A	398	SER	3.0
1	3-A	398	SER	3.0
1	4-A	398	SER	3.0
1	5-A	398	SER	3.0
1	6-A	398	SER	3.0
1	7-A	398	SER	3.0
1	8-A	398	SER	3.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	9-A	398	SER	3.0
1	10-A	398	SER	3.0
1	11-A	398	SER	3.0
1	12-A	398	SER	3.0
1	13-A	398	SER	3.0
1	14-A	398	SER	3.0
1	15-A	398	SER	3.0
1	16-A	398	SER	3.0
1	17-A	398	SER	3.0
1	18-A	398	SER	3.0
1	19-A	398	SER	3.0
1	20-A	398	SER	3.0
1	21-A	398	SER	3.0
1	22-A	398	SER	3.0
1	23-A	398	SER	3.0
1	24-A	398	SER	3.0
1	25-A	398	SER	3.0
1	1-A	249	PHE	3.0
1	2-A	249	PHE	3.0
1	3-A	249	PHE	3.0
1	4-A	249	PHE	3.0
1	5-A	249	PHE	3.0
1	6-A	249	PHE	3.0
1	7-A	249	PHE	3.0
1	8-A	249	PHE	3.0
1	9-A	249	PHE	3.0
1	10-A	249	PHE	3.0
1	11-A	249	PHE	3.0
1	12-A	249	PHE	3.0
1	13-A	249	PHE	3.0
1	14-A	249	PHE	3.0
1	15-A	249	PHE	3.0
1	16-A	249	PHE	3.0
1	17-A	249	PHE	3.0
1	18-A	249	PHE	3.0
1	19-A	249	PHE	3.0
1	20-A	249	PHE	3.0
1	21-A	249	PHE	3.0
1	22-A	249	PHE	3.0
1	23-A	249	PHE	3.0
1	24-A	249	PHE	3.0
1	25-A	249	PHE	3.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	1-A	272	ASP	2.9
1	2-A	272	ASP	2.9
1	3-A	272	ASP	2.9
1	4-A	272	ASP	2.9
1	5-A	272	ASP	2.9
1	6-A	272	ASP	2.9
1	7-A	272	ASP	2.9
1	8-A	272	ASP	2.9
1	9-A	272	ASP	2.9
1	10-A	272	ASP	2.9
1	11-A	272	ASP	2.9
1	12-A	272	ASP	2.9
1	13-A	272	ASP	2.9
1	14-A	272	ASP	2.9
1	15-A	272	ASP	2.9
1	16-A	272	ASP	2.9
1	17-A	272	ASP	2.9
1	18-A	272	ASP	2.9
1	19-A	272	ASP	2.9
1	20-A	272	ASP	2.9
1	21-A	272	ASP	2.9
1	22-A	272	ASP	2.9
1	23-A	272	ASP	2.9
1	24-A	272	ASP	2.9
1	25-A	272	ASP	2.9
1	1-B	76	PRO	2.9
1	2-B	76	PRO	2.9
1	3-B	76	PRO	2.9
1	4-B	76	PRO	2.9
1	5-B	76	PRO	2.9
1	6-B	76	PRO	2.9
1	7-B	76	PRO	2.9
1	8-B	76	PRO	2.9
1	9-B	76	PRO	2.9
1	10-B	76	PRO	2.9
1	11-B	76	PRO	2.9
1	12-B	76	PRO	2.9
1	13-B	76	PRO	2.9
1	14-B	76	PRO	2.9
1	15-B	76	PRO	2.9
1	16-B	76	PRO	2.9
1	17-B	76	PRO	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	18-B	76	PRO	2.9
1	19-B	76	PRO	2.9
1	20-B	76	PRO	2.9
1	21-B	76	PRO	2.9
1	22-B	76	PRO	2.9
1	23-B	76	PRO	2.9
1	24-B	76	PRO	2.9
1	25-B	76	PRO	2.9
1	1-B	219	TRP	2.9
1	2-B	219	TRP	2.9
1	3-B	219	TRP	2.9
1	4-B	219	TRP	2.9
1	5-B	219	TRP	2.9
1	6-B	219	TRP	2.9
1	7-B	219	TRP	2.9
1	8-B	219	TRP	2.9
1	9-B	219	TRP	2.9
1	10-B	219	TRP	2.9
1	11-B	219	TRP	2.9
1	12-B	219	TRP	2.9
1	13-B	219	TRP	2.9
1	14-B	219	TRP	2.9
1	15-B	219	TRP	2.9
1	16-B	219	TRP	2.9
1	17-B	219	TRP	2.9
1	18-B	219	TRP	2.9
1	19-B	219	TRP	2.9
1	20-B	219	TRP	2.9
1	21-B	219	TRP	2.9
1	22-B	219	TRP	2.9
1	23-B	219	TRP	2.9
1	24-B	219	TRP	2.9
1	25-B	219	TRP	2.9
1	1-B	512	ALA	2.9
1	2-B	512	ALA	2.9
1	3-B	512	ALA	2.9
1	4-B	512	ALA	2.9
1	5-B	512	ALA	2.9
1	6-B	512	ALA	2.9
1	7-B	512	ALA	2.9
1	8-B	512	ALA	2.9
1	9-B	512	ALA	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	10-B	512	ALA	2.9
1	11-B	512	ALA	2.9
1	12-B	512	ALA	2.9
1	13-B	512	ALA	2.9
1	14-B	512	ALA	2.9
1	15-B	512	ALA	2.9
1	16-B	512	ALA	2.9
1	17-B	512	ALA	2.9
1	18-B	512	ALA	2.9
1	19-B	512	ALA	2.9
1	20-B	512	ALA	2.9
1	21-B	512	ALA	2.9
1	22-B	512	ALA	2.9
1	23-B	512	ALA	2.9
1	24-B	512	ALA	2.9
1	25-B	512	ALA	2.9
1	1-B	317	GLU	2.9
1	2-B	317	GLU	2.9
1	3-B	317	GLU	2.9
1	4-B	317	GLU	2.9
1	5-B	317	GLU	2.9
1	6-B	317	GLU	2.9
1	7-B	317	GLU	2.9
1	8-B	317	GLU	2.9
1	9-B	317	GLU	2.9
1	10-B	317	GLU	2.9
1	11-B	317	GLU	2.9
1	12-B	317	GLU	2.9
1	13-B	317	GLU	2.9
1	14-B	317	GLU	2.9
1	15-B	317	GLU	2.9
1	16-B	317	GLU	2.9
1	17-B	317	GLU	2.9
1	18-B	317	GLU	2.9
1	19-B	317	GLU	2.9
1	20-B	317	GLU	2.9
1	21-B	317	GLU	2.9
1	22-B	317	GLU	2.9
1	23-B	317	GLU	2.9
1	24-B	317	GLU	2.9
1	25-B	317	GLU	2.9
1	1-B	402	SER	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	2-B	402	SER	2.9
1	3-B	402	SER	2.9
1	4-B	402	SER	2.9
1	5-B	402	SER	2.9
1	6-B	402	SER	2.9
1	7-B	402	SER	2.9
1	8-B	402	SER	2.9
1	9-B	402	SER	2.9
1	10-B	402	SER	2.9
1	11-B	402	SER	2.9
1	12-B	402	SER	2.9
1	13-B	402	SER	2.9
1	14-B	402	SER	2.9
1	15-B	402	SER	2.9
1	16-B	402	SER	2.9
1	17-B	402	SER	2.9
1	18-B	402	SER	2.9
1	19-B	402	SER	2.9
1	20-B	402	SER	2.9
1	21-B	402	SER	2.9
1	22-B	402	SER	2.9
1	23-B	402	SER	2.9
1	24-B	402	SER	2.9
1	25-B	402	SER	2.9
1	1-B	298	GLU	2.9
1	2-B	298	GLU	2.9
1	3-B	298	GLU	2.9
1	4-B	298	GLU	2.9
1	5-B	298	GLU	2.9
1	6-B	298	GLU	2.9
1	7-B	298	GLU	2.9
1	8-B	298	GLU	2.9
1	9-B	298	GLU	2.9
1	10-B	298	GLU	2.9
1	11-B	298	GLU	2.9
1	12-B	298	GLU	2.9
1	13-B	298	GLU	2.9
1	14-B	298	GLU	2.9
1	15-B	298	GLU	2.9
1	16-B	298	GLU	2.9
1	17-B	298	GLU	2.9
1	18-B	298	GLU	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	19-B	298	GLU	2.9
1	20-B	298	GLU	2.9
1	21-B	298	GLU	2.9
1	22-B	298	GLU	2.9
1	23-B	298	GLU	2.9
1	24-B	298	GLU	2.9
1	25-B	298	GLU	2.9
1	1-A	403	GLY	2.8
1	2-A	403	GLY	2.8
1	3-A	403	GLY	2.8
1	4-A	403	GLY	2.8
1	5-A	403	GLY	2.8
1	6-A	403	GLY	2.8
1	7-A	403	GLY	2.8
1	8-A	403	GLY	2.8
1	9-A	403	GLY	2.8
1	10-A	403	GLY	2.8
1	11-A	403	GLY	2.8
1	12-A	403	GLY	2.8
1	13-A	403	GLY	2.8
1	14-A	403	GLY	2.8
1	15-A	403	GLY	2.8
1	16-A	403	GLY	2.8
1	17-A	403	GLY	2.8
1	18-A	403	GLY	2.8
1	19-A	403	GLY	2.8
1	20-A	403	GLY	2.8
1	21-A	403	GLY	2.8
1	22-A	403	GLY	2.8
1	23-A	403	GLY	2.8
1	24-A	403	GLY	2.8
1	25-A	403	GLY	2.8
1	1-B	603	SER	2.8
1	2-B	603	SER	2.8
1	3-B	603	SER	2.8
1	4-B	603	SER	2.8
1	5-B	603	SER	2.8
1	6-B	603	SER	2.8
1	7-B	603	SER	2.8
1	8-B	603	SER	2.8
1	9-B	603	SER	2.8
1	10-B	603	SER	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	11-B	603	SER	2.8
1	12-B	603	SER	2.8
1	13-B	603	SER	2.8
1	14-B	603	SER	2.8
1	15-B	603	SER	2.8
1	16-B	603	SER	2.8
1	17-B	603	SER	2.8
1	18-B	603	SER	2.8
1	19-B	603	SER	2.8
1	20-B	603	SER	2.8
1	21-B	603	SER	2.8
1	22-B	603	SER	2.8
1	23-B	603	SER	2.8
1	24-B	603	SER	2.8
1	25-B	603	SER	2.8
1	1-A	59	VAL	2.7
1	2-A	59	VAL	2.7
1	3-A	59	VAL	2.7
1	4-A	59	VAL	2.7
1	5-A	59	VAL	2.7
1	6-A	59	VAL	2.7
1	7-A	59	VAL	2.7
1	8-A	59	VAL	2.7
1	9-A	59	VAL	2.7
1	10-A	59	VAL	2.7
1	11-A	59	VAL	2.7
1	12-A	59	VAL	2.7
1	13-A	59	VAL	2.7
1	14-A	59	VAL	2.7
1	15-A	59	VAL	2.7
1	16-A	59	VAL	2.7
1	17-A	59	VAL	2.7
1	18-A	59	VAL	2.7
1	19-A	59	VAL	2.7
1	20-A	59	VAL	2.7
1	21-A	59	VAL	2.7
1	22-A	59	VAL	2.7
1	23-A	59	VAL	2.7
1	24-A	59	VAL	2.7
1	25-A	59	VAL	2.7
1	1-A	603	SER	2.7
1	2-A	603	SER	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	3-A	603	SER	2.7
1	4-A	603	SER	2.7
1	5-A	603	SER	2.7
1	6-A	603	SER	2.7
1	7-A	603	SER	2.7
1	8-A	603	SER	2.7
1	9-A	603	SER	2.7
1	10-A	603	SER	2.7
1	11-A	603	SER	2.7
1	12-A	603	SER	2.7
1	13-A	603	SER	2.7
1	14-A	603	SER	2.7
1	15-A	603	SER	2.7
1	16-A	603	SER	2.7
1	17-A	603	SER	2.7
1	18-A	603	SER	2.7
1	19-A	603	SER	2.7
1	20-A	603	SER	2.7
1	21-A	603	SER	2.7
1	22-A	603	SER	2.7
1	23-A	603	SER	2.7
1	24-A	603	SER	2.7
1	25-A	603	SER	2.7
1	1-A	564	VAL	2.7
1	2-A	564	VAL	2.7
1	3-A	564	VAL	2.7
1	4-A	564	VAL	2.7
1	5-A	564	VAL	2.7
1	6-A	564	VAL	2.7
1	7-A	564	VAL	2.7
1	8-A	564	VAL	2.7
1	9-A	564	VAL	2.7
1	10-A	564	VAL	2.7
1	11-A	564	VAL	2.7
1	12-A	564	VAL	2.7
1	13-A	564	VAL	2.7
1	14-A	564	VAL	2.7
1	15-A	564	VAL	2.7
1	16-A	564	VAL	2.7
1	17-A	564	VAL	2.7
1	18-A	564	VAL	2.7
1	19-A	564	VAL	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	20-A	564	VAL	2.7
1	21-A	564	VAL	2.7
1	22-A	564	VAL	2.7
1	23-A	564	VAL	2.7
1	24-A	564	VAL	2.7
1	25-A	564	VAL	2.7
1	1-A	323	VAL	2.6
1	2-A	323	VAL	2.6
1	3-A	323	VAL	2.6
1	4-A	323	VAL	2.6
1	5-A	323	VAL	2.6
1	6-A	323	VAL	2.6
1	7-A	323	VAL	2.6
1	8-A	323	VAL	2.6
1	9-A	323	VAL	2.6
1	10-A	323	VAL	2.6
1	11-A	323	VAL	2.6
1	12-A	323	VAL	2.6
1	13-A	323	VAL	2.6
1	14-A	323	VAL	2.6
1	15-A	323	VAL	2.6
1	16-A	323	VAL	2.6
1	17-A	323	VAL	2.6
1	18-A	323	VAL	2.6
1	19-A	323	VAL	2.6
1	20-A	323	VAL	2.6
1	21-A	323	VAL	2.6
1	22-A	323	VAL	2.6
1	23-A	323	VAL	2.6
1	24-A	323	VAL	2.6
1	25-A	323	VAL	2.6
1	1-A	201	TYR	2.6
1	2-A	201	TYR	2.6
1	3-A	201	TYR	2.6
1	4-A	201	TYR	2.6
1	5-A	201	TYR	2.6
1	6-A	201	TYR	2.6
1	7-A	201	TYR	2.6
1	8-A	201	TYR	2.6
1	9-A	201	TYR	2.6
1	10-A	201	TYR	2.6
1	11-A	201	TYR	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	12-A	201	TYR	2.6
1	13-A	201	TYR	2.6
1	14-A	201	TYR	2.6
1	15-A	201	TYR	2.6
1	16-A	201	TYR	2.6
1	17-A	201	TYR	2.6
1	18-A	201	TYR	2.6
1	19-A	201	TYR	2.6
1	20-A	201	TYR	2.6
1	21-A	201	TYR	2.6
1	22-A	201	TYR	2.6
1	23-A	201	TYR	2.6
1	24-A	201	TYR	2.6
1	25-A	201	TYR	2.6
1	1-B	313	GLY	2.6
1	2-B	313	GLY	2.6
1	3-B	313	GLY	2.6
1	4-B	313	GLY	2.6
1	5-B	313	GLY	2.6
1	6-B	313	GLY	2.6
1	7-B	313	GLY	2.6
1	8-B	313	GLY	2.6
1	9-B	313	GLY	2.6
1	10-B	313	GLY	2.6
1	11-B	313	GLY	2.6
1	12-B	313	GLY	2.6
1	13-B	313	GLY	2.6
1	14-B	313	GLY	2.6
1	15-B	313	GLY	2.6
1	16-B	313	GLY	2.6
1	17-B	313	GLY	2.6
1	18-B	313	GLY	2.6
1	19-B	313	GLY	2.6
1	20-B	313	GLY	2.6
1	21-B	313	GLY	2.6
1	22-B	313	GLY	2.6
1	23-B	313	GLY	2.6
1	24-B	313	GLY	2.6
1	25-B	313	GLY	2.6
1	1-B	192	ASP	2.5
1	2-B	192	ASP	2.5
1	3-B	192	ASP	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	4-B	192	ASP	2.5
1	5-B	192	ASP	2.5
1	6-B	192	ASP	2.5
1	7-B	192	ASP	2.5
1	8-B	192	ASP	2.5
1	9-B	192	ASP	2.5
1	10-B	192	ASP	2.5
1	11-B	192	ASP	2.5
1	12-B	192	ASP	2.5
1	13-B	192	ASP	2.5
1	14-B	192	ASP	2.5
1	15-B	192	ASP	2.5
1	16-B	192	ASP	2.5
1	17-B	192	ASP	2.5
1	18-B	192	ASP	2.5
1	19-B	192	ASP	2.5
1	20-B	192	ASP	2.5
1	21-B	192	ASP	2.5
1	22-B	192	ASP	2.5
1	23-B	192	ASP	2.5
1	24-B	192	ASP	2.5
1	25-B	192	ASP	2.5
1	1-A	517	ASP	2.5
1	2-A	517	ASP	2.5
1	3-A	517	ASP	2.5
1	4-A	517	ASP	2.5
1	5-A	517	ASP	2.5
1	6-A	517	ASP	2.5
1	7-A	517	ASP	2.5
1	8-A	517	ASP	2.5
1	9-A	517	ASP	2.5
1	10-A	517	ASP	2.5
1	11-A	517	ASP	2.5
1	12-A	517	ASP	2.5
1	13-A	517	ASP	2.5
1	14-A	517	ASP	2.5
1	15-A	517	ASP	2.5
1	16-A	517	ASP	2.5
1	17-A	517	ASP	2.5
1	18-A	517	ASP	2.5
1	19-A	517	ASP	2.5
1	20-A	517	ASP	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	21-A	517	ASP	2.5
1	22-A	517	ASP	2.5
1	23-A	517	ASP	2.5
1	24-A	517	ASP	2.5
1	25-A	517	ASP	2.5
1	1-B	73	PRO	2.5
1	2-B	73	PRO	2.5
1	3-B	73	PRO	2.5
1	4-B	73	PRO	2.5
1	5-B	73	PRO	2.5
1	6-B	73	PRO	2.5
1	7-B	73	PRO	2.5
1	8-B	73	PRO	2.5
1	9-B	73	PRO	2.5
1	10-B	73	PRO	2.5
1	11-B	73	PRO	2.5
1	12-B	73	PRO	2.5
1	13-B	73	PRO	2.5
1	14-B	73	PRO	2.5
1	15-B	73	PRO	2.5
1	16-B	73	PRO	2.5
1	17-B	73	PRO	2.5
1	18-B	73	PRO	2.5
1	19-B	73	PRO	2.5
1	20-B	73	PRO	2.5
1	21-B	73	PRO	2.5
1	22-B	73	PRO	2.5
1	23-B	73	PRO	2.5
1	24-B	73	PRO	2.5
1	25-B	73	PRO	2.5
1	1-A	144	PHE	2.5
1	2-A	144	PHE	2.5
1	3-A	144	PHE	2.5
1	4-A	144	PHE	2.5
1	5-A	144	PHE	2.5
1	6-A	144	PHE	2.5
1	7-A	144	PHE	2.5
1	8-A	144	PHE	2.5
1	9-A	144	PHE	2.5
1	10-A	144	PHE	2.5
1	11-A	144	PHE	2.5
1	12-A	144	PHE	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	13-A	144	PHE	2.5
1	14-A	144	PHE	2.5
1	15-A	144	PHE	2.5
1	16-A	144	PHE	2.5
1	17-A	144	PHE	2.5
1	18-A	144	PHE	2.5
1	19-A	144	PHE	2.5
1	20-A	144	PHE	2.5
1	21-A	144	PHE	2.5
1	22-A	144	PHE	2.5
1	23-A	144	PHE	2.5
1	24-A	144	PHE	2.5
1	25-A	144	PHE	2.5
1	1-B	454	VAL	2.4
1	2-B	454	VAL	2.4
1	3-B	454	VAL	2.4
1	4-B	454	VAL	2.4
1	5-B	454	VAL	2.4
1	6-B	454	VAL	2.4
1	7-B	454	VAL	2.4
1	8-B	454	VAL	2.4
1	9-B	454	VAL	2.4
1	10-B	454	VAL	2.4
1	11-B	454	VAL	2.4
1	12-B	454	VAL	2.4
1	13-B	454	VAL	2.4
1	14-B	454	VAL	2.4
1	15-B	454	VAL	2.4
1	16-B	454	VAL	2.4
1	17-B	454	VAL	2.4
1	18-B	454	VAL	2.4
1	19-B	454	VAL	2.4
1	20-B	454	VAL	2.4
1	21-B	454	VAL	2.4
1	22-B	454	VAL	2.4
1	23-B	454	VAL	2.4
1	24-B	454	VAL	2.4
1	25-B	454	VAL	2.4
1	1-A	322	ALA	2.4
1	2-A	322	ALA	2.4
1	3-A	322	ALA	2.4
1	4-A	322	ALA	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	5-A	322	ALA	2.4
1	6-A	322	ALA	2.4
1	7-A	322	ALA	2.4
1	8-A	322	ALA	2.4
1	9-A	322	ALA	2.4
1	10-A	322	ALA	2.4
1	11-A	322	ALA	2.4
1	12-A	322	ALA	2.4
1	13-A	322	ALA	2.4
1	14-A	322	ALA	2.4
1	15-A	322	ALA	2.4
1	16-A	322	ALA	2.4
1	17-A	322	ALA	2.4
1	18-A	322	ALA	2.4
1	19-A	322	ALA	2.4
1	20-A	322	ALA	2.4
1	21-A	322	ALA	2.4
1	22-A	322	ALA	2.4
1	23-A	322	ALA	2.4
1	24-A	322	ALA	2.4
1	25-A	322	ALA	2.4
1	1-A	528	ASP	2.4
1	1-B	399	ASP	2.4
1	2-A	528	ASP	2.4
1	2-B	399	ASP	2.4
1	3-A	528	ASP	2.4
1	3-B	399	ASP	2.4
1	4-A	528	ASP	2.4
1	4-B	399	ASP	2.4
1	5-A	528	ASP	2.4
1	5-B	399	ASP	2.4
1	6-A	528	ASP	2.4
1	6-B	399	ASP	2.4
1	7-A	528	ASP	2.4
1	7-B	399	ASP	2.4
1	8-A	528	ASP	2.4
1	8-B	399	ASP	2.4
1	9-A	528	ASP	2.4
1	9-B	399	ASP	2.4
1	10-A	528	ASP	2.4
1	10-B	399	ASP	2.4
1	11-A	528	ASP	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	11-B	399	ASP	2.4
1	12-A	528	ASP	2.4
1	12-B	399	ASP	2.4
1	13-A	528	ASP	2.4
1	13-B	399	ASP	2.4
1	14-A	528	ASP	2.4
1	14-B	399	ASP	2.4
1	15-A	528	ASP	2.4
1	15-B	399	ASP	2.4
1	16-A	528	ASP	2.4
1	16-B	399	ASP	2.4
1	17-A	528	ASP	2.4
1	17-B	399	ASP	2.4
1	18-A	528	ASP	2.4
1	18-B	399	ASP	2.4
1	19-A	528	ASP	2.4
1	19-B	399	ASP	2.4
1	20-A	528	ASP	2.4
1	20-B	399	ASP	2.4
1	21-A	528	ASP	2.4
1	21-B	399	ASP	2.4
1	22-A	528	ASP	2.4
1	22-B	399	ASP	2.4
1	23-A	528	ASP	2.4
1	23-B	399	ASP	2.4
1	24-A	528	ASP	2.4
1	24-B	399	ASP	2.4
1	25-A	528	ASP	2.4
1	25-B	399	ASP	2.4
1	1-A	250	PRO	2.4
1	2-A	250	PRO	2.4
1	3-A	250	PRO	2.4
1	4-A	250	PRO	2.4
1	5-A	250	PRO	2.4
1	6-A	250	PRO	2.4
1	7-A	250	PRO	2.4
1	8-A	250	PRO	2.4
1	9-A	250	PRO	2.4
1	10-A	250	PRO	2.4
1	11-A	250	PRO	2.4
1	12-A	250	PRO	2.4
1	13-A	250	PRO	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	14-A	250	PRO	2.4
1	15-A	250	PRO	2.4
1	16-A	250	PRO	2.4
1	17-A	250	PRO	2.4
1	18-A	250	PRO	2.4
1	19-A	250	PRO	2.4
1	20-A	250	PRO	2.4
1	21-A	250	PRO	2.4
1	22-A	250	PRO	2.4
1	23-A	250	PRO	2.4
1	24-A	250	PRO	2.4
1	25-A	250	PRO	2.4
1	1-B	516	GLY	2.4
1	2-B	516	GLY	2.4
1	3-B	516	GLY	2.4
1	4-B	516	GLY	2.4
1	5-B	516	GLY	2.4
1	6-B	516	GLY	2.4
1	7-B	516	GLY	2.4
1	8-B	516	GLY	2.4
1	9-B	516	GLY	2.4
1	10-B	516	GLY	2.4
1	11-B	516	GLY	2.4
1	12-B	516	GLY	2.4
1	13-B	516	GLY	2.4
1	14-B	516	GLY	2.4
1	15-B	516	GLY	2.4
1	16-B	516	GLY	2.4
1	17-B	516	GLY	2.4
1	18-B	516	GLY	2.4
1	19-B	516	GLY	2.4
1	20-B	516	GLY	2.4
1	21-B	516	GLY	2.4
1	22-B	516	GLY	2.4
1	23-B	516	GLY	2.4
1	24-B	516	GLY	2.4
1	25-B	516	GLY	2.4
1	1-A	604	PHE	2.3
1	2-A	604	PHE	2.3
1	3-A	604	PHE	2.3
1	4-A	604	PHE	2.3
1	5-A	604	PHE	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	6-A	604	PHE	2.3
1	7-A	604	PHE	2.3
1	8-A	604	PHE	2.3
1	9-A	604	PHE	2.3
1	10-A	604	PHE	2.3
1	11-A	604	PHE	2.3
1	12-A	604	PHE	2.3
1	13-A	604	PHE	2.3
1	14-A	604	PHE	2.3
1	15-A	604	PHE	2.3
1	16-A	604	PHE	2.3
1	17-A	604	PHE	2.3
1	18-A	604	PHE	2.3
1	19-A	604	PHE	2.3
1	20-A	604	PHE	2.3
1	21-A	604	PHE	2.3
1	22-A	604	PHE	2.3
1	23-A	604	PHE	2.3
1	24-A	604	PHE	2.3
1	25-A	604	PHE	2.3
1	1-B	178	PHE	2.3
1	2-B	178	PHE	2.3
1	3-B	178	PHE	2.3
1	4-B	178	PHE	2.3
1	5-B	178	PHE	2.3
1	6-B	178	PHE	2.3
1	7-B	178	PHE	2.3
1	8-B	178	PHE	2.3
1	9-B	178	PHE	2.3
1	10-B	178	PHE	2.3
1	11-B	178	PHE	2.3
1	12-B	178	PHE	2.3
1	13-B	178	PHE	2.3
1	14-B	178	PHE	2.3
1	15-B	178	PHE	2.3
1	16-B	178	PHE	2.3
1	17-B	178	PHE	2.3
1	18-B	178	PHE	2.3
1	19-B	178	PHE	2.3
1	20-B	178	PHE	2.3
1	21-B	178	PHE	2.3
1	22-B	178	PHE	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	23-B	178	PHE	2.3
1	24-B	178	PHE	2.3
1	25-B	178	PHE	2.3
1	1-A	415	VAL	2.3
1	2-A	415	VAL	2.3
1	3-A	415	VAL	2.3
1	4-A	415	VAL	2.3
1	5-A	415	VAL	2.3
1	6-A	415	VAL	2.3
1	7-A	415	VAL	2.3
1	8-A	415	VAL	2.3
1	9-A	415	VAL	2.3
1	10-A	415	VAL	2.3
1	11-A	415	VAL	2.3
1	12-A	415	VAL	2.3
1	13-A	415	VAL	2.3
1	14-A	415	VAL	2.3
1	15-A	415	VAL	2.3
1	16-A	415	VAL	2.3
1	17-A	415	VAL	2.3
1	18-A	415	VAL	2.3
1	19-A	415	VAL	2.3
1	20-A	415	VAL	2.3
1	21-A	415	VAL	2.3
1	22-A	415	VAL	2.3
1	23-A	415	VAL	2.3
1	24-A	415	VAL	2.3
1	25-A	415	VAL	2.3
1	1-B	75	THR	2.3
1	1-B	250	PRO	2.3
1	2-B	75	THR	2.3
1	2-B	250	PRO	2.3
1	3-B	75	THR	2.3
1	3-B	250	PRO	2.3
1	4-B	75	THR	2.3
1	4-B	250	PRO	2.3
1	5-B	75	THR	2.3
1	5-B	250	PRO	2.3
1	6-B	75	THR	2.3
1	6-B	250	PRO	2.3
1	7-B	75	THR	2.3
1	7-B	250	PRO	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	8-B	75	THR	2.3
1	8-B	250	PRO	2.3
1	9-B	75	THR	2.3
1	9-B	250	PRO	2.3
1	10-B	75	THR	2.3
1	10-B	250	PRO	2.3
1	11-B	75	THR	2.3
1	11-B	250	PRO	2.3
1	12-B	75	THR	2.3
1	12-B	250	PRO	2.3
1	13-B	75	THR	2.3
1	13-B	250	PRO	2.3
1	14-B	75	THR	2.3
1	14-B	250	PRO	2.3
1	15-B	75	THR	2.3
1	15-B	250	PRO	2.3
1	16-B	75	THR	2.3
1	16-B	250	PRO	2.3
1	17-B	75	THR	2.3
1	17-B	250	PRO	2.3
1	18-B	75	THR	2.3
1	18-B	250	PRO	2.3
1	19-B	75	THR	2.3
1	19-B	250	PRO	2.3
1	20-B	75	THR	2.3
1	20-B	250	PRO	2.3
1	21-B	75	THR	2.3
1	21-B	250	PRO	2.3
1	22-B	75	THR	2.3
1	22-B	250	PRO	2.3
1	23-B	75	THR	2.3
1	23-B	250	PRO	2.3
1	24-B	75	THR	2.3
1	24-B	250	PRO	2.3
1	25-B	75	THR	2.3
1	25-B	250	PRO	2.3
1	1-A	87	ARG	2.3
1	2-A	87	ARG	2.3
1	3-A	87	ARG	2.3
1	4-A	87	ARG	2.3
1	5-A	87	ARG	2.3
1	6-A	87	ARG	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	7-A	87	ARG	2.3
1	8-A	87	ARG	2.3
1	9-A	87	ARG	2.3
1	10-A	87	ARG	2.3
1	11-A	87	ARG	2.3
1	12-A	87	ARG	2.3
1	13-A	87	ARG	2.3
1	14-A	87	ARG	2.3
1	15-A	87	ARG	2.3
1	16-A	87	ARG	2.3
1	17-A	87	ARG	2.3
1	18-A	87	ARG	2.3
1	19-A	87	ARG	2.3
1	20-A	87	ARG	2.3
1	21-A	87	ARG	2.3
1	22-A	87	ARG	2.3
1	23-A	87	ARG	2.3
1	24-A	87	ARG	2.3
1	25-A	87	ARG	2.3
1	1-A	77	ASP	2.3
1	2-A	77	ASP	2.3
1	3-A	77	ASP	2.3
1	4-A	77	ASP	2.3
1	5-A	77	ASP	2.3
1	6-A	77	ASP	2.3
1	7-A	77	ASP	2.3
1	8-A	77	ASP	2.3
1	9-A	77	ASP	2.3
1	10-A	77	ASP	2.3
1	11-A	77	ASP	2.3
1	12-A	77	ASP	2.3
1	13-A	77	ASP	2.3
1	14-A	77	ASP	2.3
1	15-A	77	ASP	2.3
1	16-A	77	ASP	2.3
1	17-A	77	ASP	2.3
1	18-A	77	ASP	2.3
1	19-A	77	ASP	2.3
1	20-A	77	ASP	2.3
1	21-A	77	ASP	2.3
1	22-A	77	ASP	2.3
1	23-A	77	ASP	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	24-A	77	ASP	2.3
1	25-A	77	ASP	2.3
1	1-A	477	LEU	2.3
1	2-A	477	LEU	2.3
1	3-A	477	LEU	2.3
1	4-A	477	LEU	2.3
1	5-A	477	LEU	2.3
1	6-A	477	LEU	2.3
1	7-A	477	LEU	2.3
1	8-A	477	LEU	2.3
1	9-A	477	LEU	2.3
1	10-A	477	LEU	2.3
1	11-A	477	LEU	2.3
1	12-A	477	LEU	2.3
1	13-A	477	LEU	2.3
1	14-A	477	LEU	2.3
1	15-A	477	LEU	2.3
1	16-A	477	LEU	2.3
1	17-A	477	LEU	2.3
1	18-A	477	LEU	2.3
1	19-A	477	LEU	2.3
1	20-A	477	LEU	2.3
1	21-A	477	LEU	2.3
1	22-A	477	LEU	2.3
1	23-A	477	LEU	2.3
1	24-A	477	LEU	2.3
1	25-A	477	LEU	2.3
1	1-B	314	ALA	2.3
1	2-B	314	ALA	2.3
1	3-B	314	ALA	2.3
1	4-B	314	ALA	2.3
1	5-B	314	ALA	2.3
1	6-B	314	ALA	2.3
1	7-B	314	ALA	2.3
1	8-B	314	ALA	2.3
1	9-B	314	ALA	2.3
1	10-B	314	ALA	2.3
1	11-B	314	ALA	2.3
1	12-B	314	ALA	2.3
1	13-B	314	ALA	2.3
1	14-B	314	ALA	2.3
1	15-B	314	ALA	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	16-B	314	ALA	2.3
1	17-B	314	ALA	2.3
1	18-B	314	ALA	2.3
1	19-B	314	ALA	2.3
1	20-B	314	ALA	2.3
1	21-B	314	ALA	2.3
1	22-B	314	ALA	2.3
1	23-B	314	ALA	2.3
1	24-B	314	ALA	2.3
1	25-B	314	ALA	2.3
1	1-B	318	THR	2.2
1	2-B	318	THR	2.2
1	3-B	318	THR	2.2
1	4-B	318	THR	2.2
1	5-B	318	THR	2.2
1	6-B	318	THR	2.2
1	7-B	318	THR	2.2
1	8-B	318	THR	2.2
1	9-B	318	THR	2.2
1	10-B	318	THR	2.2
1	11-B	318	THR	2.2
1	12-B	318	THR	2.2
1	13-B	318	THR	2.2
1	14-B	318	THR	2.2
1	15-B	318	THR	2.2
1	16-B	318	THR	2.2
1	17-B	318	THR	2.2
1	18-B	318	THR	2.2
1	19-B	318	THR	2.2
1	20-B	318	THR	2.2
1	21-B	318	THR	2.2
1	22-B	318	THR	2.2
1	23-B	318	THR	2.2
1	24-B	318	THR	2.2
1	25-B	318	THR	2.2
1	1-B	60	GLY	2.2
1	2-B	60	GLY	2.2
1	3-B	60	GLY	2.2
1	4-B	60	GLY	2.2
1	5-B	60	GLY	2.2
1	6-B	60	GLY	2.2
1	7-B	60	GLY	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	8-B	60	GLY	2.2
1	9-B	60	GLY	2.2
1	10-B	60	GLY	2.2
1	11-B	60	GLY	2.2
1	12-B	60	GLY	2.2
1	13-B	60	GLY	2.2
1	14-B	60	GLY	2.2
1	15-B	60	GLY	2.2
1	16-B	60	GLY	2.2
1	17-B	60	GLY	2.2
1	18-B	60	GLY	2.2
1	19-B	60	GLY	2.2
1	20-B	60	GLY	2.2
1	21-B	60	GLY	2.2
1	22-B	60	GLY	2.2
1	23-B	60	GLY	2.2
1	24-B	60	GLY	2.2
1	25-B	60	GLY	2.2
1	1-A	314	ALA	2.2
1	2-A	314	ALA	2.2
1	3-A	314	ALA	2.2
1	4-A	314	ALA	2.2
1	5-A	314	ALA	2.2
1	6-A	314	ALA	2.2
1	7-A	314	ALA	2.2
1	8-A	314	ALA	2.2
1	9-A	314	ALA	2.2
1	10-A	314	ALA	2.2
1	11-A	314	ALA	2.2
1	12-A	314	ALA	2.2
1	13-A	314	ALA	2.2
1	14-A	314	ALA	2.2
1	15-A	314	ALA	2.2
1	16-A	314	ALA	2.2
1	17-A	314	ALA	2.2
1	18-A	314	ALA	2.2
1	19-A	314	ALA	2.2
1	20-A	314	ALA	2.2
1	21-A	314	ALA	2.2
1	22-A	314	ALA	2.2
1	23-A	314	ALA	2.2
1	24-A	314	ALA	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	25-A	314	ALA	2.2
1	1-B	127	ASN	2.2
1	2-B	127	ASN	2.2
1	3-B	127	ASN	2.2
1	4-B	127	ASN	2.2
1	5-B	127	ASN	2.2
1	6-B	127	ASN	2.2
1	7-B	127	ASN	2.2
1	8-B	127	ASN	2.2
1	9-B	127	ASN	2.2
1	10-B	127	ASN	2.2
1	11-B	127	ASN	2.2
1	12-B	127	ASN	2.2
1	13-B	127	ASN	2.2
1	14-B	127	ASN	2.2
1	15-B	127	ASN	2.2
1	16-B	127	ASN	2.2
1	17-B	127	ASN	2.2
1	18-B	127	ASN	2.2
1	19-B	127	ASN	2.2
1	20-B	127	ASN	2.2
1	21-B	127	ASN	2.2
1	22-B	127	ASN	2.2
1	23-B	127	ASN	2.2
1	24-B	127	ASN	2.2
1	25-B	127	ASN	2.2
1	1-B	72	ASP	2.2
1	2-B	72	ASP	2.2
1	3-B	72	ASP	2.2
1	4-B	72	ASP	2.2
1	5-B	72	ASP	2.2
1	6-B	72	ASP	2.2
1	7-B	72	ASP	2.2
1	8-B	72	ASP	2.2
1	9-B	72	ASP	2.2
1	10-B	72	ASP	2.2
1	11-B	72	ASP	2.2
1	12-B	72	ASP	2.2
1	13-B	72	ASP	2.2
1	14-B	72	ASP	2.2
1	15-B	72	ASP	2.2
1	16-B	72	ASP	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	17-B	72	ASP	2.2
1	18-B	72	ASP	2.2
1	19-B	72	ASP	2.2
1	20-B	72	ASP	2.2
1	21-B	72	ASP	2.2
1	22-B	72	ASP	2.2
1	23-B	72	ASP	2.2
1	24-B	72	ASP	2.2
1	25-B	72	ASP	2.2
1	1-A	317	GLU	2.2
1	2-A	317	GLU	2.2
1	3-A	317	GLU	2.2
1	4-A	317	GLU	2.2
1	5-A	317	GLU	2.2
1	6-A	317	GLU	2.2
1	7-A	317	GLU	2.2
1	8-A	317	GLU	2.2
1	9-A	317	GLU	2.2
1	10-A	317	GLU	2.2
1	11-A	317	GLU	2.2
1	12-A	317	GLU	2.2
1	13-A	317	GLU	2.2
1	14-A	317	GLU	2.2
1	15-A	317	GLU	2.2
1	16-A	317	GLU	2.2
1	17-A	317	GLU	2.2
1	18-A	317	GLU	2.2
1	19-A	317	GLU	2.2
1	20-A	317	GLU	2.2
1	21-A	317	GLU	2.2
1	22-A	317	GLU	2.2
1	23-A	317	GLU	2.2
1	24-A	317	GLU	2.2
1	25-A	317	GLU	2.2
1	1-B	324	ASP	2.2
1	2-B	324	ASP	2.2
1	3-B	324	ASP	2.2
1	4-B	324	ASP	2.2
1	5-B	324	ASP	2.2
1	6-B	324	ASP	2.2
1	7-B	324	ASP	2.2
1	8-B	324	ASP	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	9-B	324	ASP	2.2
1	10-B	324	ASP	2.2
1	11-B	324	ASP	2.2
1	12-B	324	ASP	2.2
1	13-B	324	ASP	2.2
1	14-B	324	ASP	2.2
1	15-B	324	ASP	2.2
1	16-B	324	ASP	2.2
1	17-B	324	ASP	2.2
1	18-B	324	ASP	2.2
1	19-B	324	ASP	2.2
1	20-B	324	ASP	2.2
1	21-B	324	ASP	2.2
1	22-B	324	ASP	2.2
1	23-B	324	ASP	2.2
1	24-B	324	ASP	2.2
1	25-B	324	ASP	2.2
1	1-B	214	TYR	2.1
1	1-B	249	PHE	2.1
1	2-B	214	TYR	2.1
1	2-B	249	PHE	2.1
1	3-B	214	TYR	2.1
1	3-B	249	PHE	2.1
1	4-B	214	TYR	2.1
1	4-B	249	PHE	2.1
1	5-B	214	TYR	2.1
1	5-B	249	PHE	2.1
1	6-B	214	TYR	2.1
1	6-B	249	PHE	2.1
1	7-B	214	TYR	2.1
1	7-B	249	PHE	2.1
1	8-B	214	TYR	2.1
1	8-B	249	PHE	2.1
1	9-B	214	TYR	2.1
1	9-B	249	PHE	2.1
1	10-B	214	TYR	2.1
1	10-B	249	PHE	2.1
1	11-B	214	TYR	2.1
1	11-B	249	PHE	2.1
1	12-B	214	TYR	2.1
1	12-B	249	PHE	2.1
1	13-B	214	TYR	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	13-B	249	PHE	2.1
1	14-B	214	TYR	2.1
1	14-B	249	PHE	2.1
1	15-B	214	TYR	2.1
1	15-B	249	PHE	2.1
1	16-B	214	TYR	2.1
1	16-B	249	PHE	2.1
1	17-B	214	TYR	2.1
1	17-B	249	PHE	2.1
1	18-B	214	TYR	2.1
1	18-B	249	PHE	2.1
1	19-B	214	TYR	2.1
1	19-B	249	PHE	2.1
1	20-B	214	TYR	2.1
1	20-B	249	PHE	2.1
1	21-B	214	TYR	2.1
1	21-B	249	PHE	2.1
1	22-B	214	TYR	2.1
1	22-B	249	PHE	2.1
1	23-B	214	TYR	2.1
1	23-B	249	PHE	2.1
1	24-B	214	TYR	2.1
1	24-B	249	PHE	2.1
1	25-B	214	TYR	2.1
1	25-B	249	PHE	2.1
1	1-B	200	GLY	2.1
1	2-B	200	GLY	2.1
1	3-B	200	GLY	2.1
1	4-B	200	GLY	2.1
1	5-B	200	GLY	2.1
1	6-B	200	GLY	2.1
1	7-B	200	GLY	2.1
1	8-B	200	GLY	2.1
1	9-B	200	GLY	2.1
1	10-B	200	GLY	2.1
1	11-B	200	GLY	2.1
1	12-B	200	GLY	2.1
1	13-B	200	GLY	2.1
1	14-B	200	GLY	2.1
1	15-B	200	GLY	2.1
1	16-B	200	GLY	2.1
1	17-B	200	GLY	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	18-B	200	GLY	2.1
1	19-B	200	GLY	2.1
1	20-B	200	GLY	2.1
1	21-B	200	GLY	2.1
1	22-B	200	GLY	2.1
1	23-B	200	GLY	2.1
1	24-B	200	GLY	2.1
1	25-B	200	GLY	2.1
1	1-A	399	ASP	2.1
1	2-A	399	ASP	2.1
1	3-A	399	ASP	2.1
1	4-A	399	ASP	2.1
1	5-A	399	ASP	2.1
1	6-A	399	ASP	2.1
1	7-A	399	ASP	2.1
1	8-A	399	ASP	2.1
1	9-A	399	ASP	2.1
1	10-A	399	ASP	2.1
1	11-A	399	ASP	2.1
1	12-A	399	ASP	2.1
1	13-A	399	ASP	2.1
1	14-A	399	ASP	2.1
1	15-A	399	ASP	2.1
1	16-A	399	ASP	2.1
1	17-A	399	ASP	2.1
1	18-A	399	ASP	2.1
1	19-A	399	ASP	2.1
1	20-A	399	ASP	2.1
1	21-A	399	ASP	2.1
1	22-A	399	ASP	2.1
1	23-A	399	ASP	2.1
1	24-A	399	ASP	2.1
1	25-A	399	ASP	2.1
1	1-B	560	VAL	2.1
1	2-B	560	VAL	2.1
1	3-B	560	VAL	2.1
1	4-B	560	VAL	2.1
1	5-B	560	VAL	2.1
1	6-B	560	VAL	2.1
1	7-B	560	VAL	2.1
1	8-B	560	VAL	2.1
1	9-B	560	VAL	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	10-B	560	VAL	2.1
1	11-B	560	VAL	2.1
1	12-B	560	VAL	2.1
1	13-B	560	VAL	2.1
1	14-B	560	VAL	2.1
1	15-B	560	VAL	2.1
1	16-B	560	VAL	2.1
1	17-B	560	VAL	2.1
1	18-B	560	VAL	2.1
1	19-B	560	VAL	2.1
1	20-B	560	VAL	2.1
1	21-B	560	VAL	2.1
1	22-B	560	VAL	2.1
1	23-B	560	VAL	2.1
1	24-B	560	VAL	2.1
1	25-B	560	VAL	2.1
1	1-B	517	ASP	2.1
1	2-B	517	ASP	2.1
1	3-B	517	ASP	2.1
1	4-B	517	ASP	2.1
1	5-B	517	ASP	2.1
1	6-B	517	ASP	2.1
1	7-B	517	ASP	2.1
1	8-B	517	ASP	2.1
1	9-B	517	ASP	2.1
1	10-B	517	ASP	2.1
1	11-B	517	ASP	2.1
1	12-B	517	ASP	2.1
1	13-B	517	ASP	2.1
1	14-B	517	ASP	2.1
1	15-B	517	ASP	2.1
1	16-B	517	ASP	2.1
1	17-B	517	ASP	2.1
1	18-B	517	ASP	2.1
1	19-B	517	ASP	2.1
1	20-B	517	ASP	2.1
1	21-B	517	ASP	2.1
1	22-B	517	ASP	2.1
1	23-B	517	ASP	2.1
1	24-B	517	ASP	2.1
1	25-B	517	ASP	2.1
1	1-B	400	GLY	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	2-B	400	GLY	2.1
1	3-B	400	GLY	2.1
1	4-B	400	GLY	2.1
1	5-B	400	GLY	2.1
1	6-B	400	GLY	2.1
1	7-B	400	GLY	2.1
1	8-B	400	GLY	2.1
1	9-B	400	GLY	2.1
1	10-B	400	GLY	2.1
1	11-B	400	GLY	2.1
1	12-B	400	GLY	2.1
1	13-B	400	GLY	2.1
1	14-B	400	GLY	2.1
1	15-B	400	GLY	2.1
1	16-B	400	GLY	2.1
1	17-B	400	GLY	2.1
1	18-B	400	GLY	2.1
1	19-B	400	GLY	2.1
1	20-B	400	GLY	2.1
1	21-B	400	GLY	2.1
1	22-B	400	GLY	2.1
1	23-B	400	GLY	2.1
1	24-B	400	GLY	2.1
1	25-B	400	GLY	2.1
1	1-B	252	PRO	2.1
1	2-B	252	PRO	2.1
1	3-B	252	PRO	2.1
1	4-B	252	PRO	2.1
1	5-B	252	PRO	2.1
1	6-B	252	PRO	2.1
1	7-B	252	PRO	2.1
1	8-B	252	PRO	2.1
1	9-B	252	PRO	2.1
1	10-B	252	PRO	2.1
1	11-B	252	PRO	2.1
1	12-B	252	PRO	2.1
1	13-B	252	PRO	2.1
1	14-B	252	PRO	2.1
1	15-B	252	PRO	2.1
1	16-B	252	PRO	2.1
1	17-B	252	PRO	2.1
1	18-B	252	PRO	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	19-B	252	PRO	2.1
1	20-B	252	PRO	2.1
1	21-B	252	PRO	2.1
1	22-B	252	PRO	2.1
1	23-B	252	PRO	2.1
1	24-B	252	PRO	2.1
1	25-B	252	PRO	2.1
1	1-B	251	GLU	2.1
1	2-B	251	GLU	2.1
1	3-B	251	GLU	2.1
1	4-B	251	GLU	2.1
1	5-B	251	GLU	2.1
1	6-B	251	GLU	2.1
1	7-B	251	GLU	2.1
1	8-B	251	GLU	2.1
1	9-B	251	GLU	2.1
1	10-B	251	GLU	2.1
1	11-B	251	GLU	2.1
1	12-B	251	GLU	2.1
1	13-B	251	GLU	2.1
1	14-B	251	GLU	2.1
1	15-B	251	GLU	2.1
1	16-B	251	GLU	2.1
1	17-B	251	GLU	2.1
1	18-B	251	GLU	2.1
1	19-B	251	GLU	2.1
1	20-B	251	GLU	2.1
1	21-B	251	GLU	2.1
1	22-B	251	GLU	2.1
1	23-B	251	GLU	2.1
1	24-B	251	GLU	2.1
1	25-B	251	GLU	2.1
1	1-B	273	GLY	2.0
1	2-B	273	GLY	2.0
1	3-B	273	GLY	2.0
1	4-B	273	GLY	2.0
1	5-B	273	GLY	2.0
1	6-B	273	GLY	2.0
1	7-B	273	GLY	2.0
1	8-B	273	GLY	2.0
1	9-B	273	GLY	2.0
1	10-B	273	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
1	11-B	273	GLY	2.0
1	12-B	273	GLY	2.0
1	13-B	273	GLY	2.0
1	14-B	273	GLY	2.0
1	15-B	273	GLY	2.0
1	16-B	273	GLY	2.0
1	17-B	273	GLY	2.0
1	18-B	273	GLY	2.0
1	19-B	273	GLY	2.0
1	20-B	273	GLY	2.0
1	21-B	273	GLY	2.0
1	22-B	273	GLY	2.0
1	23-B	273	GLY	2.0
1	24-B	273	GLY	2.0
1	25-B	273	GLY	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
3	BGC	1-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	2-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	3-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	4-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	5-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	6-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	7-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	8-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	9-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	10-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	11-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	12-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	13-D	1	12/12	0.83	0.29	35,43,47,53	12

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	BGC	14-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	15-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	16-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	17-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	18-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	19-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	20-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	21-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	22-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	23-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	24-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	25-D	1	12/12	0.83	0.29	35,43,47,53	12
3	BGC	1-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	2-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	3-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	4-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	5-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	6-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	7-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	8-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	9-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	10-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	11-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	12-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	13-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	14-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	15-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	16-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	17-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	18-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	19-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	20-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	21-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	22-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	23-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	24-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	25-F	1	12/12	0.90	0.29	27,35,46,66	12
3	BGC	1-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	2-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	3-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	4-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	5-D	4	11/12	0.92	0.20	18,20,25,28	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	BGC	6-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	7-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	8-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	9-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	10-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	11-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	12-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	13-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	14-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	15-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	16-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	17-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	18-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	19-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	20-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	21-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	22-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	23-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	24-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	25-D	4	11/12	0.92	0.20	18,20,25,28	11
3	BGC	1-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	2-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	3-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	4-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	5-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	6-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	7-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	8-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	9-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	10-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	11-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	12-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	13-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	14-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	15-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	16-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	17-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	18-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	19-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	20-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	21-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	22-D	2	11/12	0.93	0.22	21,28,33,36	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	BGC	23-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	24-D	2	11/12	0.93	0.22	21,28,33,36	11
3	BGC	25-D	2	11/12	0.93	0.22	21,28,33,36	11
2	BGC	1-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	2-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	3-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	4-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	5-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	6-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	7-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	8-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	9-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	10-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	11-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	12-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	13-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	14-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	15-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	16-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	17-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	18-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	19-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	20-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	21-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	22-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	23-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	24-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	25-E	1	12/12	0.93	0.23	17,20,30,39	12
2	BGC	1-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	2-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	3-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	4-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	5-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	6-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	7-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	8-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	9-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	10-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	11-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	12-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	13-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	14-C	1	12/12	0.93	0.18	20,24,32,37	12

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	BGC	15-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	16-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	17-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	18-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	19-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	20-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	21-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	22-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	23-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	24-C	1	12/12	0.93	0.18	20,24,32,37	12
2	BGC	25-C	1	12/12	0.93	0.18	20,24,32,37	12
3	BGC	1-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	2-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	3-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	4-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	5-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	6-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	7-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	8-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	9-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	10-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	11-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	12-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	13-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	14-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	15-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	16-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	17-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	18-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	19-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	20-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	21-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	22-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	23-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	24-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	25-F	3	11/12	0.93	0.17	19,23,30,35	11
3	BGC	1-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	2-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	3-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	4-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	5-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	6-F	2	11/12	0.95	0.27	24,27,30,33	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	BGC	7-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	8-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	9-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	10-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	11-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	12-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	13-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	14-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	15-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	16-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	17-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	18-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	19-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	20-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	21-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	22-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	23-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	24-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	25-F	2	11/12	0.95	0.27	24,27,30,33	11
3	BGC	1-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	2-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	3-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	4-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	5-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	6-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	7-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	8-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	9-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	10-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	11-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	12-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	13-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	14-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	15-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	16-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	17-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	18-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	19-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	20-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	21-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	22-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	23-D	3	11/12	0.95	0.19	21,25,31,42	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	BGC	24-D	3	11/12	0.95	0.19	21,25,31,42	11
3	BGC	25-D	3	11/12	0.95	0.19	21,25,31,42	11
2	BGC	1-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	2-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	3-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	4-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	5-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	6-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	7-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	8-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	9-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	10-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	11-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	12-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	13-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	14-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	15-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	16-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	17-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	18-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	19-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	20-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	21-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	22-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	23-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	24-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	25-C	2	11/12	0.96	0.13	13,17,24,24	11
2	BGC	1-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	2-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	3-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	4-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	5-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	6-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	7-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	8-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	9-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	10-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	11-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	12-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	13-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	14-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	15-E	3	11/12	0.96	0.11	11,14,19,23	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	BGC	16-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	17-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	18-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	19-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	20-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	21-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	22-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	23-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	24-E	3	11/12	0.96	0.11	11,14,19,23	11
2	BGC	25-E	3	11/12	0.96	0.11	11,14,19,23	11
3	BGC	1-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	2-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	3-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	4-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	5-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	6-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	7-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	8-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	9-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	10-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	11-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	12-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	13-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	14-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	15-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	16-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	17-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	18-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	19-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	20-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	21-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	22-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	23-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	24-D	5	11/12	0.96	0.15	16,19,23,27	11
3	BGC	25-D	5	11/12	0.96	0.15	16,19,23,27	11
2	BGC	1-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	2-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	3-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	4-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	5-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	6-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	7-E	5	11/12	0.96	0.08	11,13,18,20	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	BGC	8-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	9-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	10-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	11-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	12-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	13-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	14-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	15-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	16-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	17-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	18-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	19-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	20-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	21-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	22-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	23-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	24-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	25-E	5	11/12	0.96	0.08	11,13,18,20	11
2	BGC	1-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	2-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	3-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	4-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	5-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	6-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	7-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	8-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	9-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	10-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	11-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	12-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	13-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	14-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	15-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	16-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	17-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	18-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	19-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	20-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	21-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	22-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	23-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	24-C	3	11/12	0.96	0.12	12,13,18,26	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	BGC	25-C	3	11/12	0.96	0.12	12,13,18,26	11
2	BGC	1-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	2-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	3-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	4-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	5-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	6-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	7-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	8-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	9-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	10-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	11-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	12-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	13-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	14-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	15-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	16-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	17-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	18-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	19-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	20-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	21-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	22-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	23-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	24-C	5	11/12	0.96	0.07	10,12,18,22	11
2	BGC	25-C	5	11/12	0.96	0.07	10,12,18,22	11
3	BGC	1-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	2-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	3-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	4-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	5-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	6-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	7-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	8-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	9-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	10-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	11-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	12-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	13-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	14-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	15-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	16-F	4	11/12	0.96	0.21	15,19,22,29	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	BGC	17-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	18-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	19-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	20-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	21-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	22-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	23-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	24-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	25-F	4	11/12	0.96	0.21	15,19,22,29	11
3	BGC	1-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	2-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	3-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	4-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	5-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	6-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	7-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	8-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	9-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	10-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	11-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	12-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	13-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	14-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	15-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	16-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	17-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	18-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	19-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	20-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	21-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	22-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	23-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	24-F	5	11/12	0.96	0.10	15,17,22,25	11
3	BGC	25-F	5	11/12	0.96	0.10	15,17,22,25	11
2	BGC	1-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	2-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	3-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	4-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	5-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	6-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	7-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	8-E	2	11/12	0.97	0.08	15,17,23,23	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	BGC	9-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	10-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	11-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	12-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	13-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	14-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	15-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	16-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	17-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	18-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	19-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	20-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	21-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	22-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	23-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	24-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	25-E	2	11/12	0.97	0.08	15,17,23,23	11
2	BGC	1-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	2-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	3-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	4-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	5-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	6-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	7-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	8-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	9-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	10-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	11-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	12-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	13-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	14-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	15-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	16-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	17-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	18-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	19-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	20-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	21-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	22-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	23-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	24-E	6	11/12	0.97	0.08	10,12,13,14	11
2	BGC	25-E	6	11/12	0.97	0.08	10,12,13,14	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	BGC	1-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	2-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	3-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	4-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	5-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	6-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	7-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	8-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	9-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	10-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	11-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	12-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	13-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	14-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	15-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	16-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	17-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	18-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	19-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	20-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	21-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	22-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	23-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	24-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	25-C	4	11/12	0.97	0.10	11,12,16,17	11
2	BGC	1-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	2-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	3-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	4-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	5-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	6-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	7-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	8-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	9-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	10-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	11-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	12-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	13-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	14-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	15-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	16-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	17-E	4	11/12	0.97	0.07	11,12,17,18	11

*Continued on next page...*

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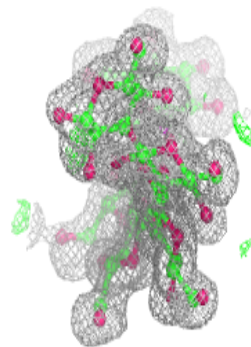
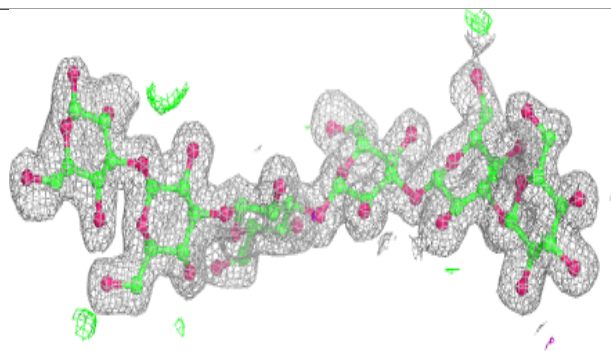
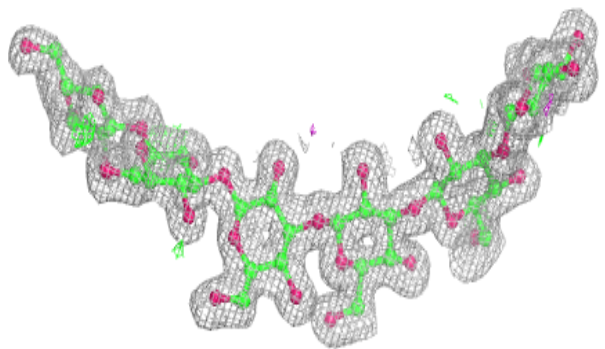
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	BGC	18-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	19-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	20-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	21-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	22-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	23-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	24-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	25-E	4	11/12	0.97	0.07	11,12,17,18	11
2	BGC	1-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	2-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	3-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	4-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	5-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	6-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	7-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	8-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	9-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	10-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	11-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	12-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	13-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	14-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	15-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	16-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	17-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	18-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	19-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	20-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	21-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	22-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	23-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	24-C	6	11/12	0.98	0.07	9,12,14,14	11
2	BGC	25-C	6	11/12	0.98	0.07	9,12,14,14	11

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.

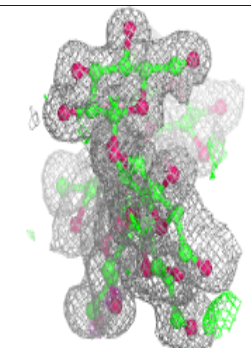
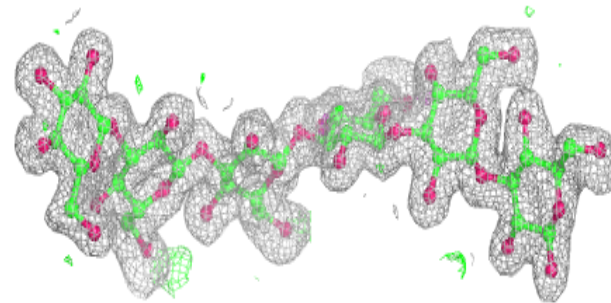
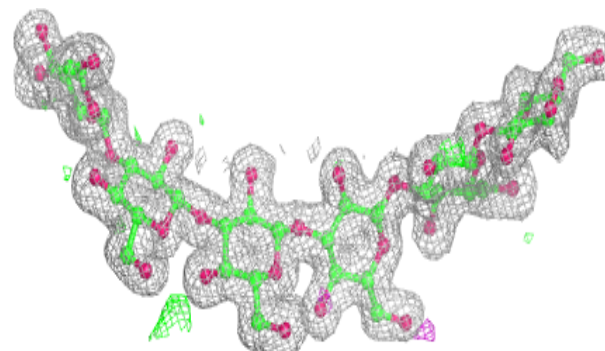


**Electron density around Chain C:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

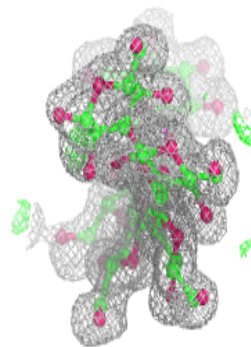
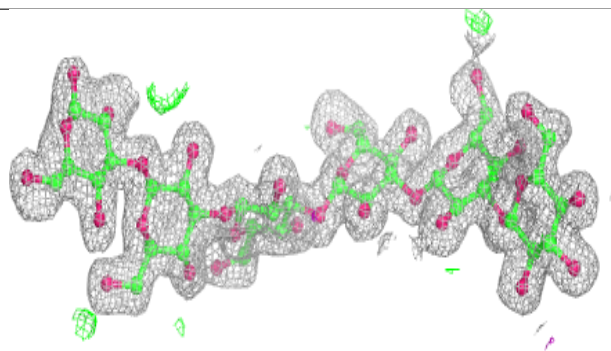
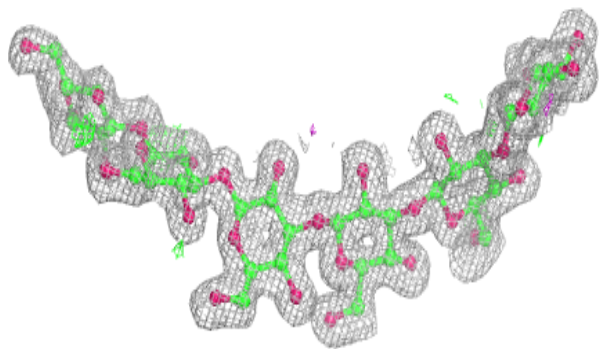
**Electron density around Chain E:**

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 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

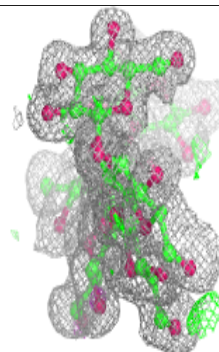
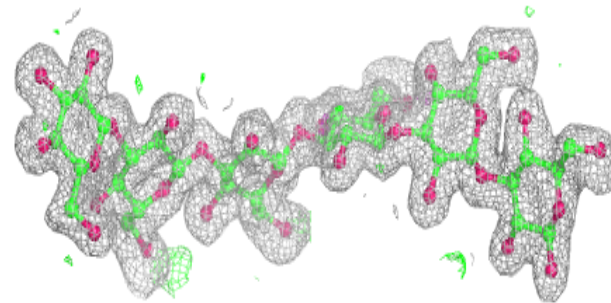
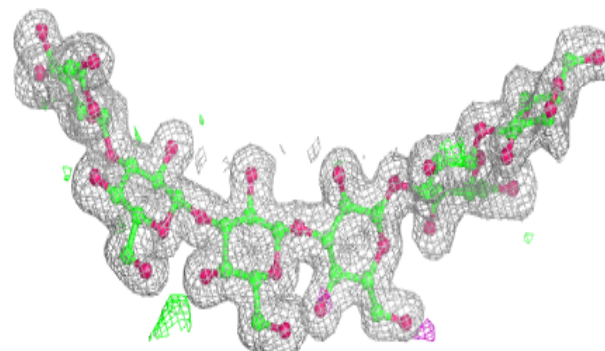


**Electron density around Chain C:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

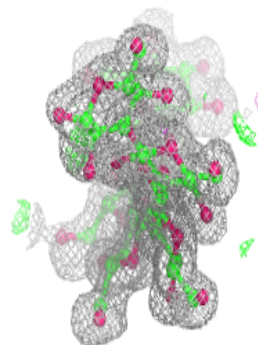
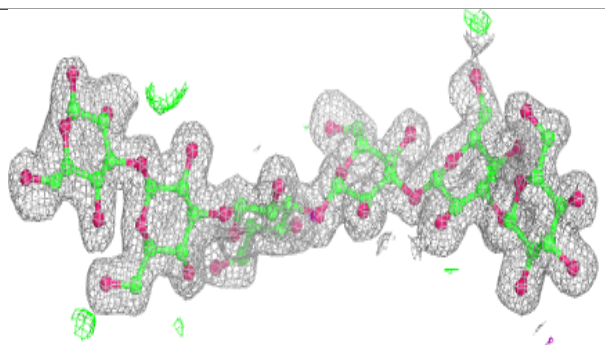
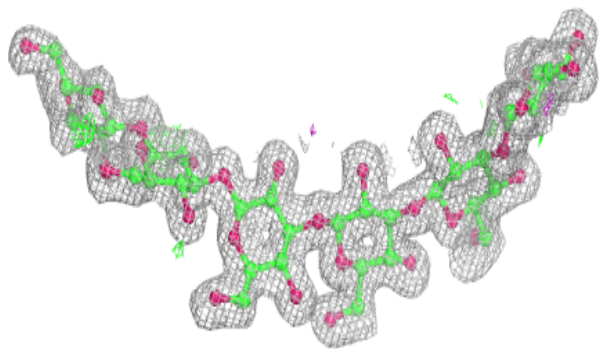
**Electron density around Chain E:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
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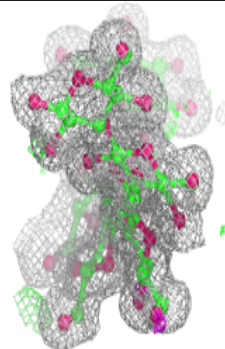
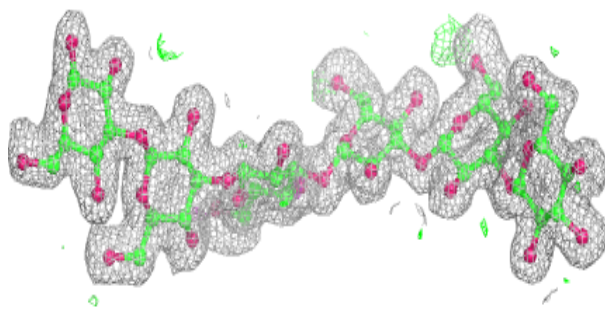
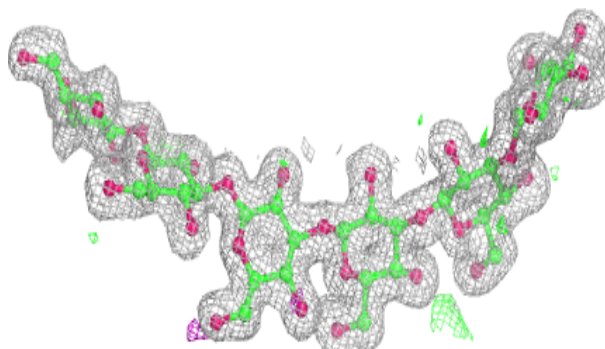


**Electron density around Chain C:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

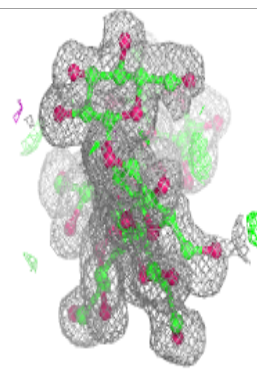
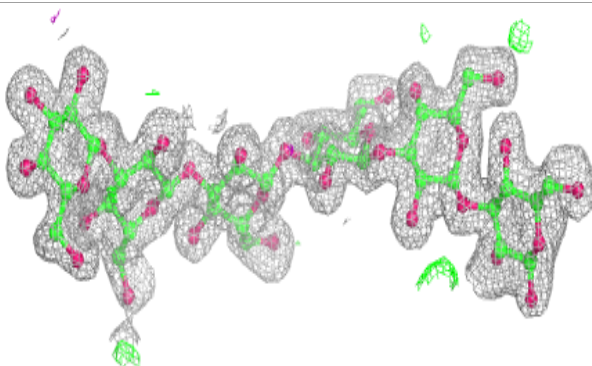
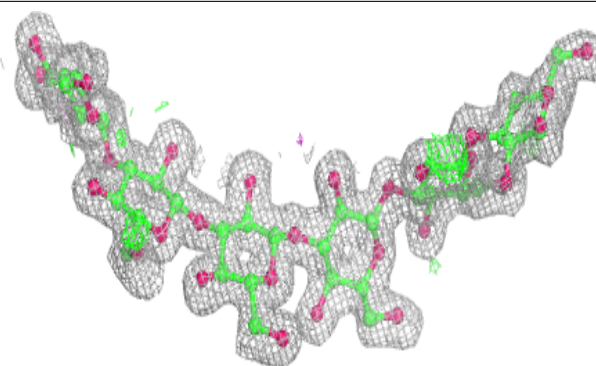
**Electron density around Chain E:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

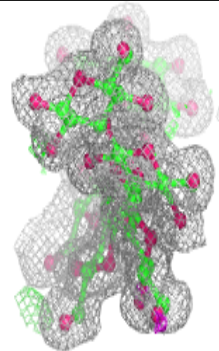
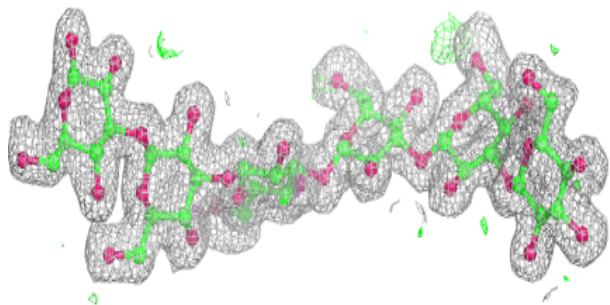
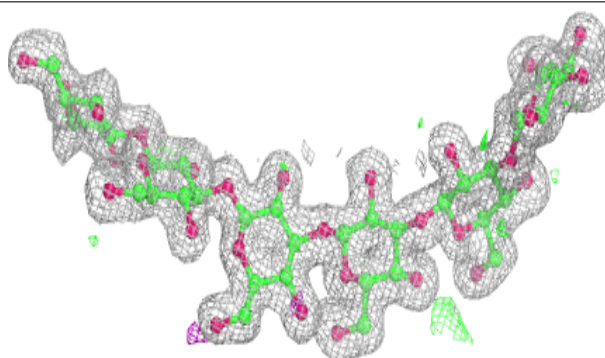


**Electron density around Chain C:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
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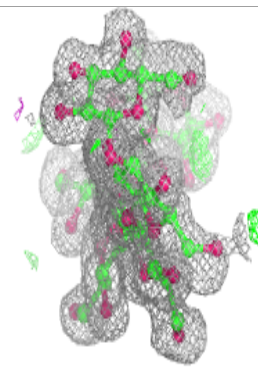
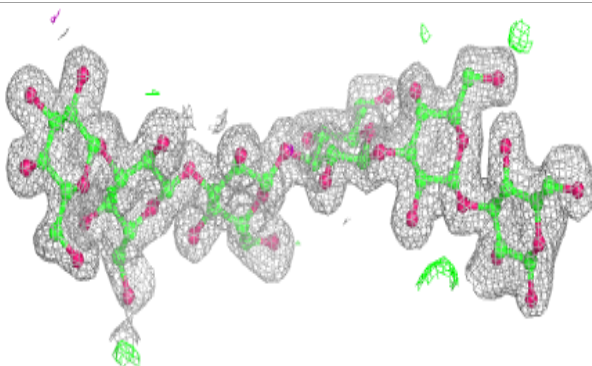
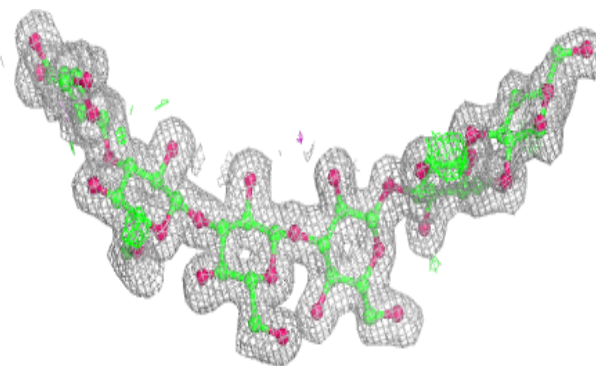
**Electron density around Chain E:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

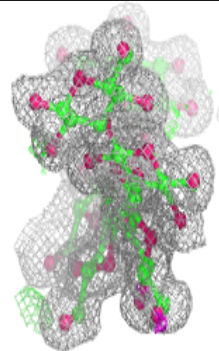
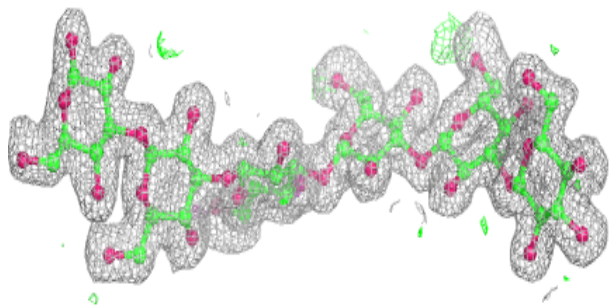
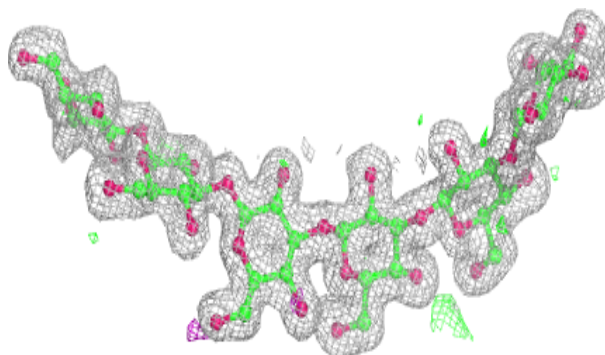


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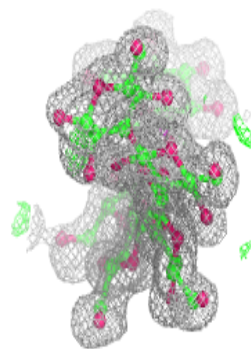
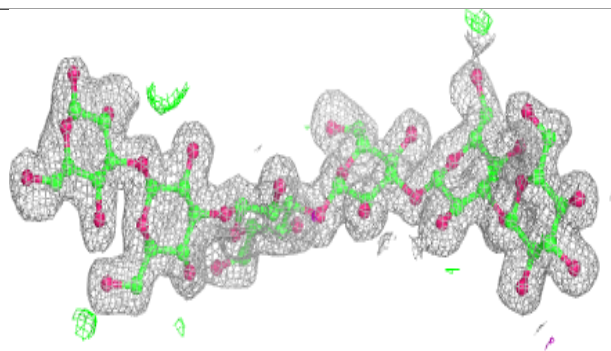
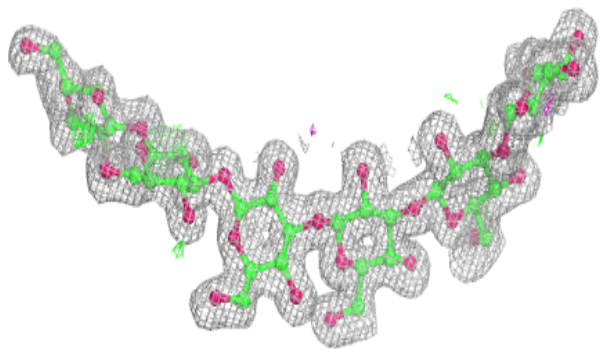
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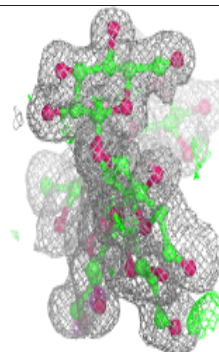
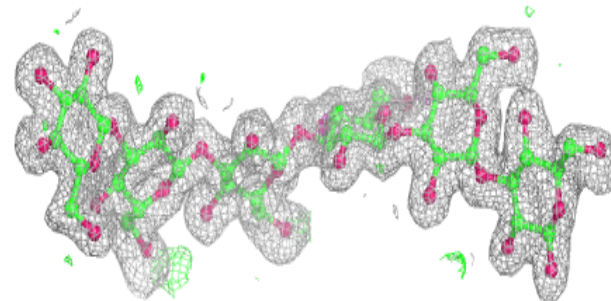
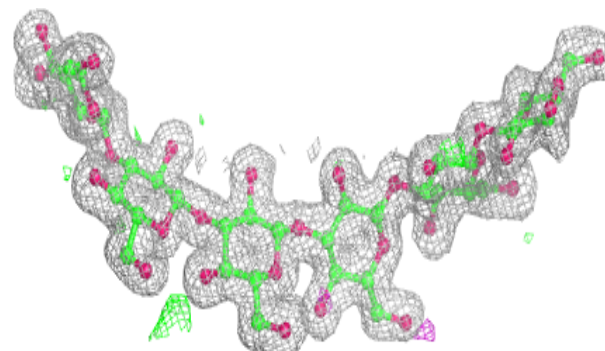


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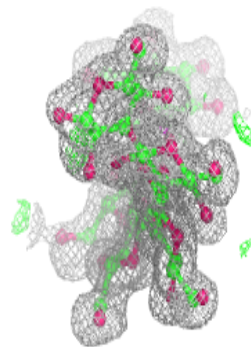
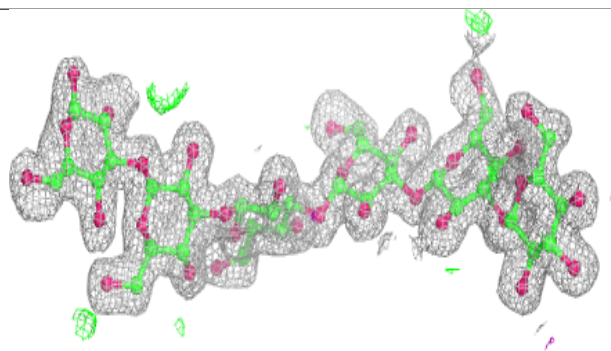
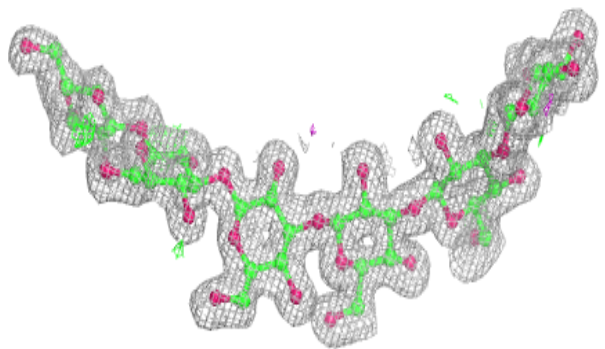
**Electron density around Chain E:**

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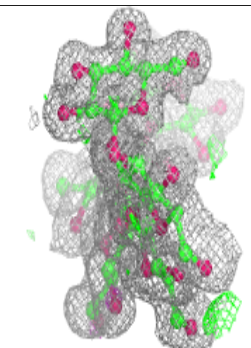
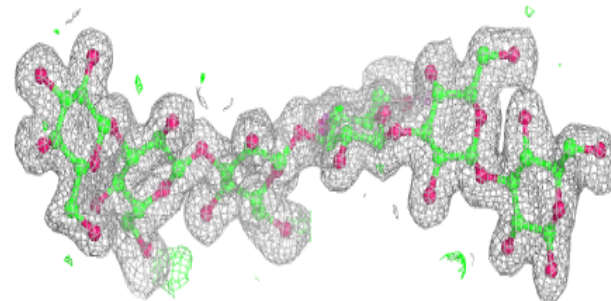
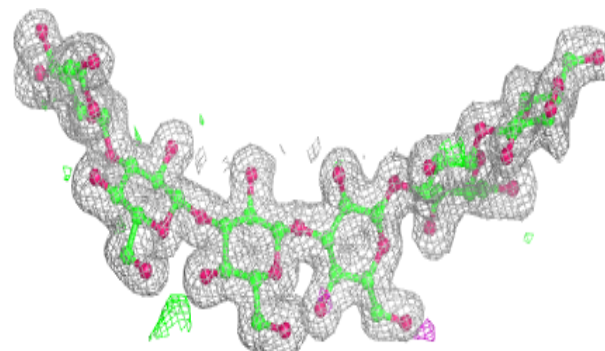


**Electron density around Chain C:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
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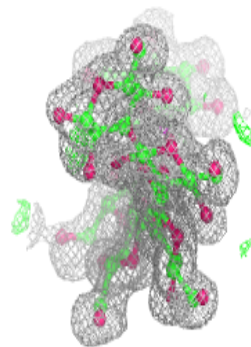
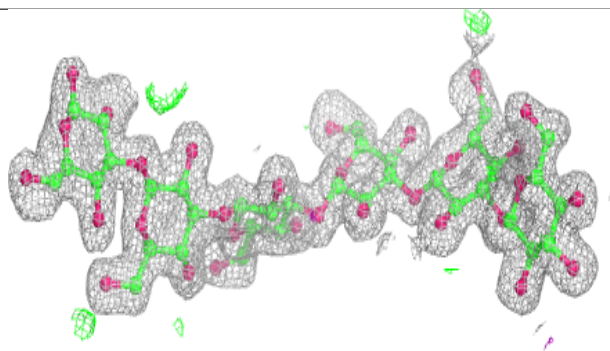
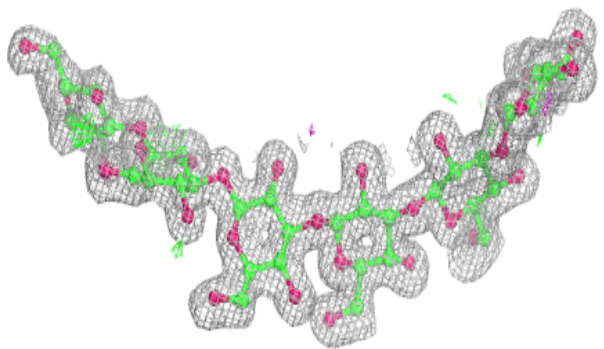
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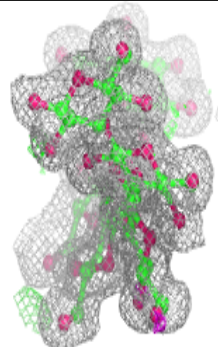
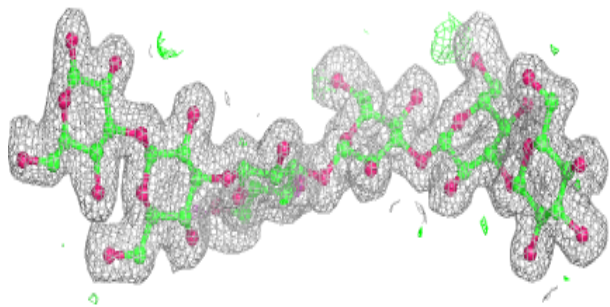
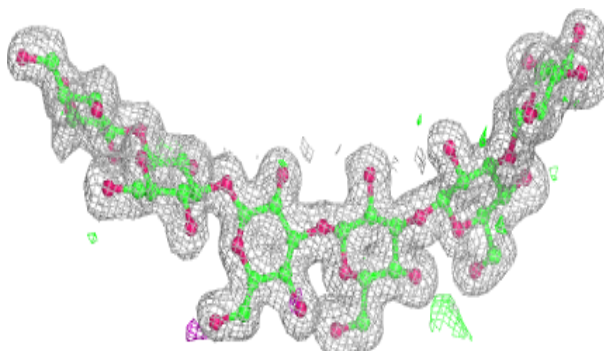


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**Electron density around Chain E:**

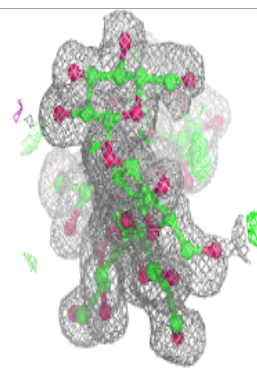
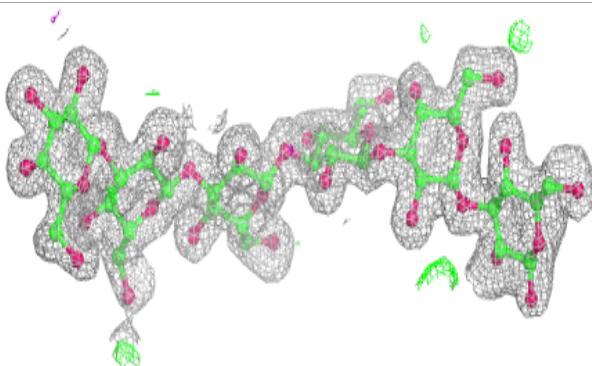
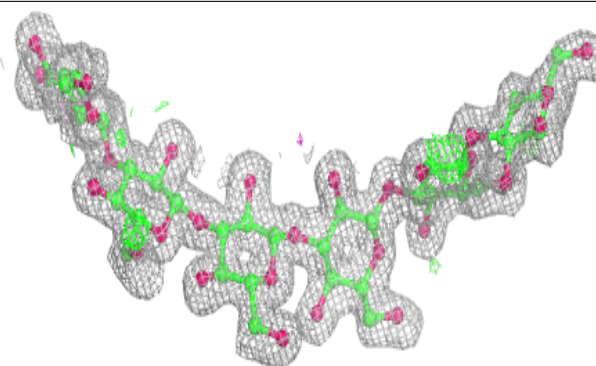
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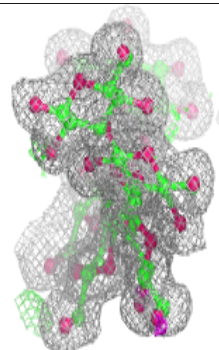
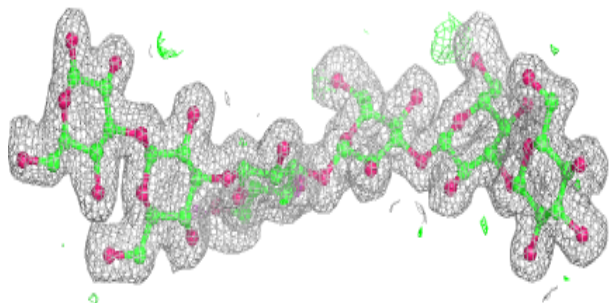
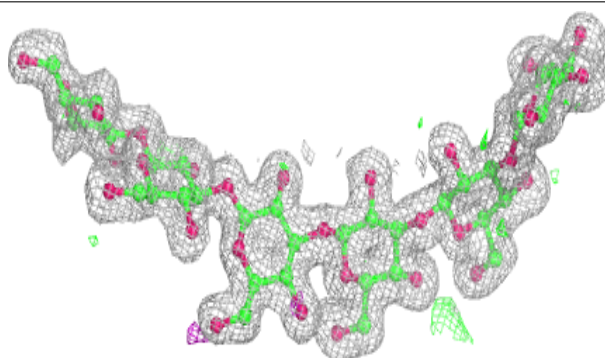


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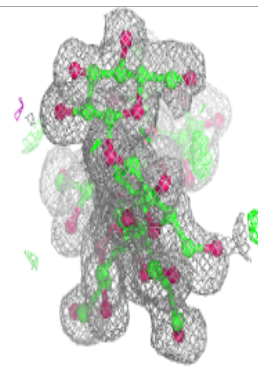
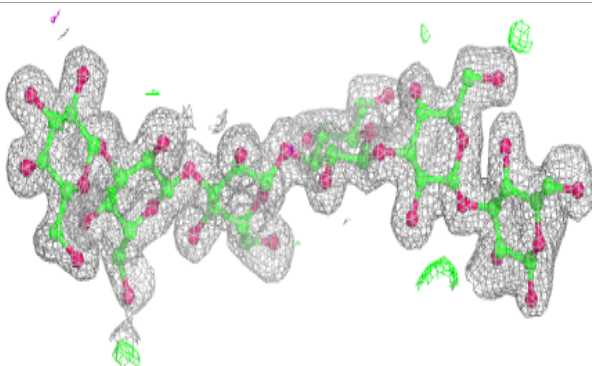
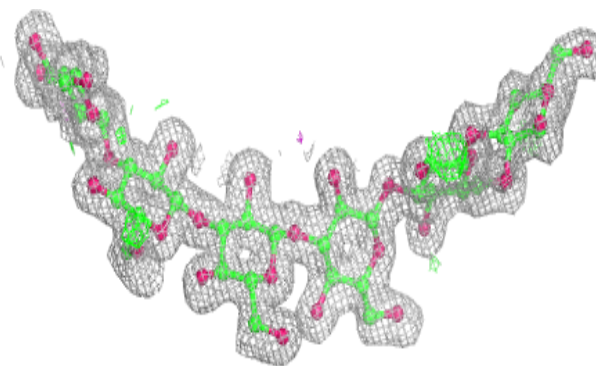
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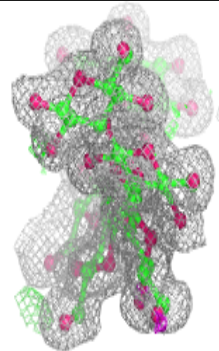
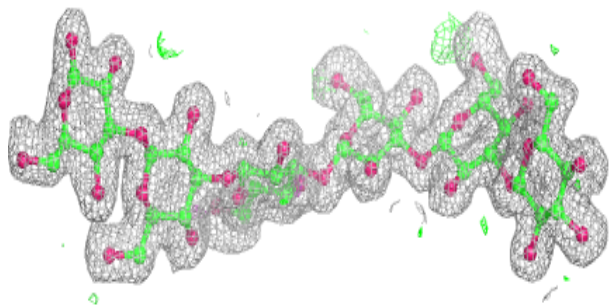
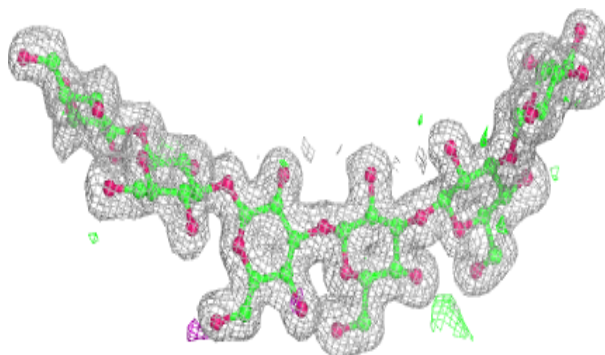


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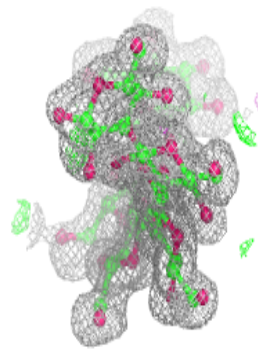
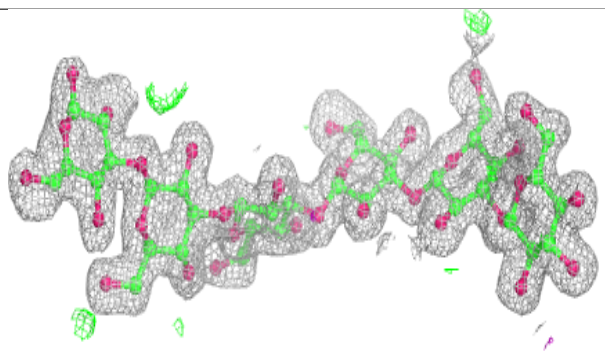
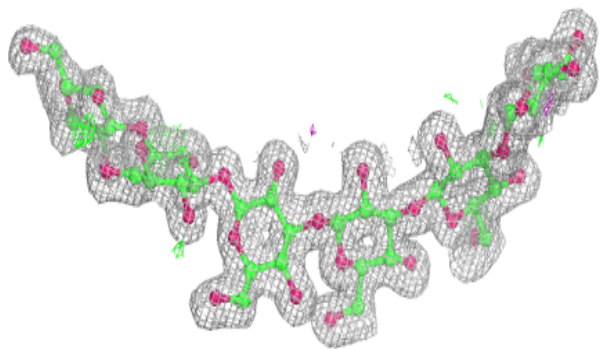
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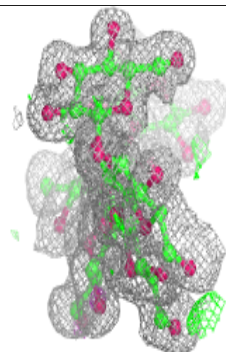
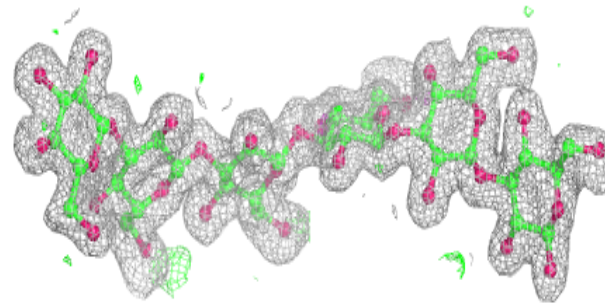
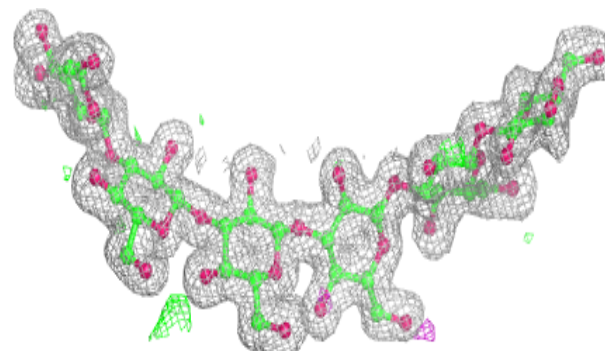


**Electron density around Chain C:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

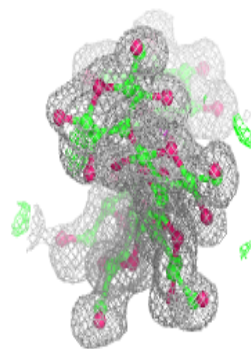
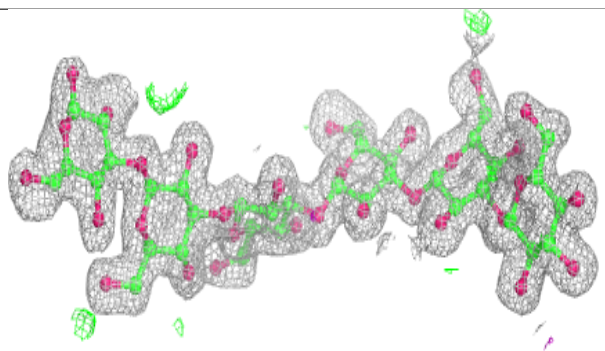
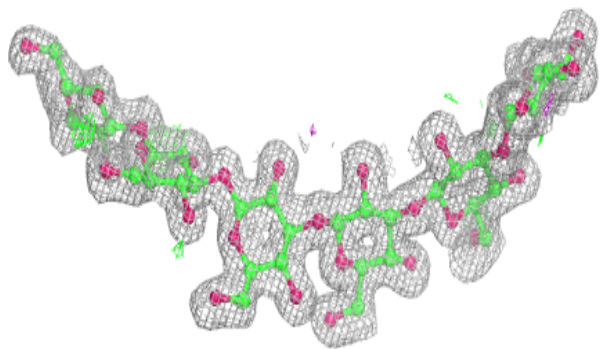
**Electron density around Chain E:**

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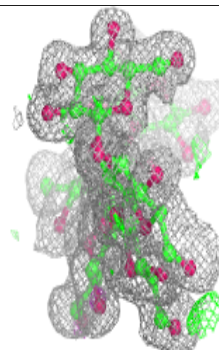
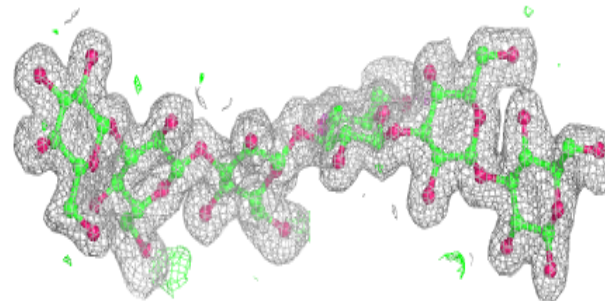
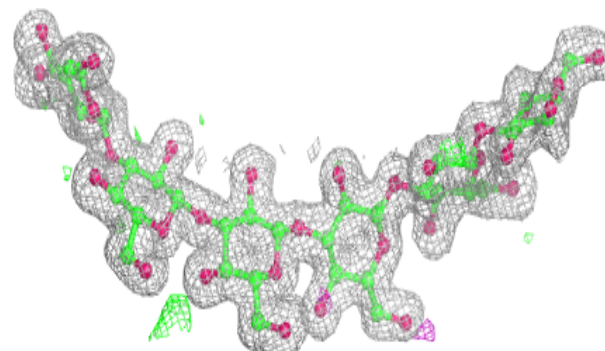


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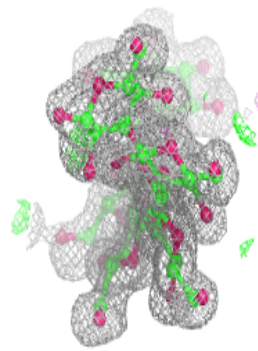
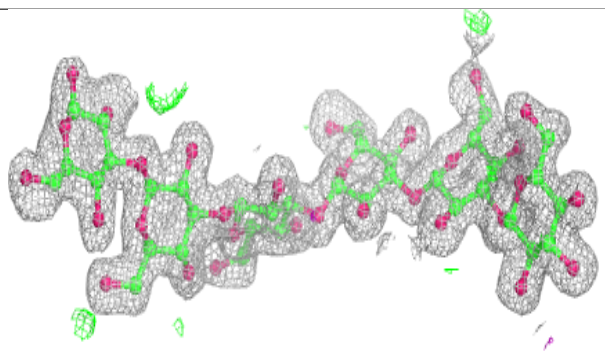
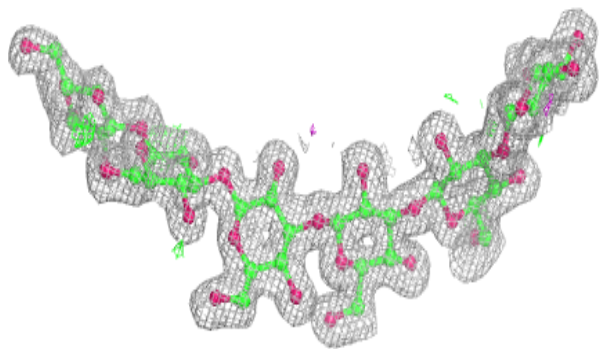
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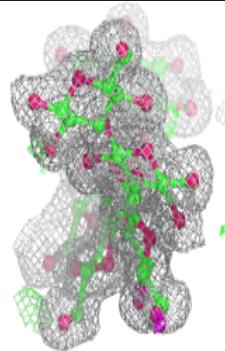
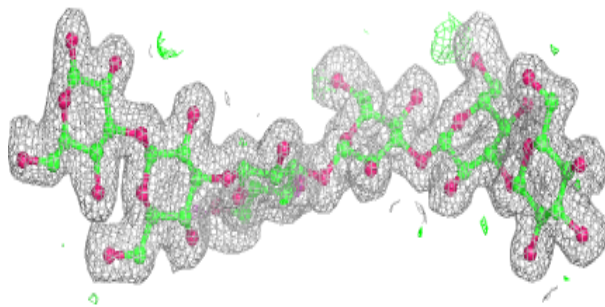
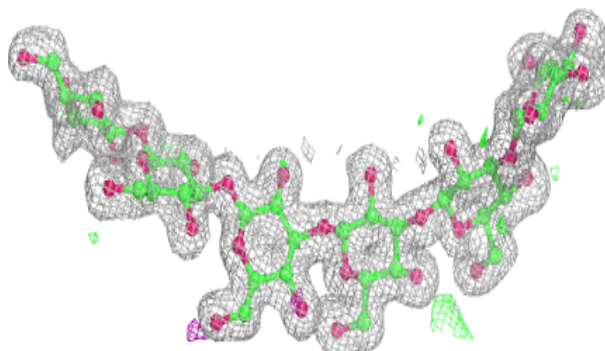


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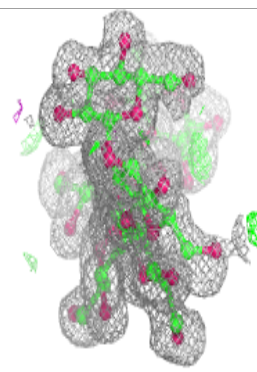
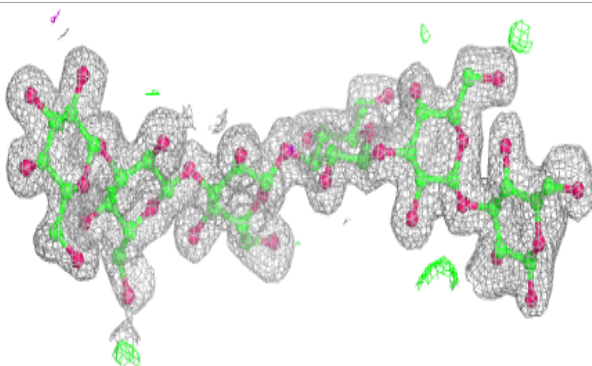
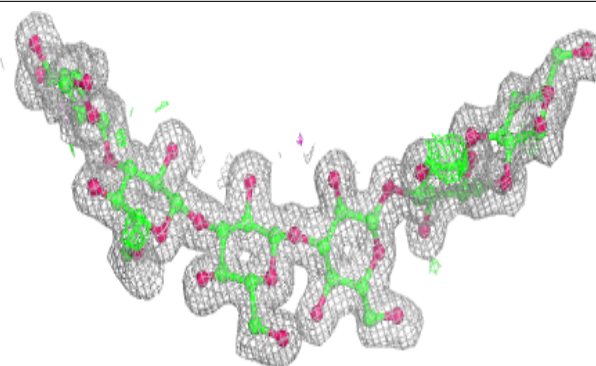
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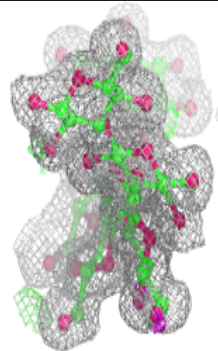
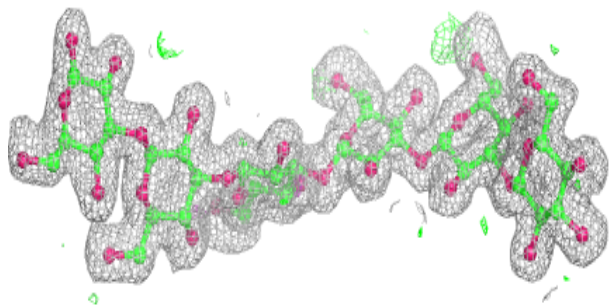
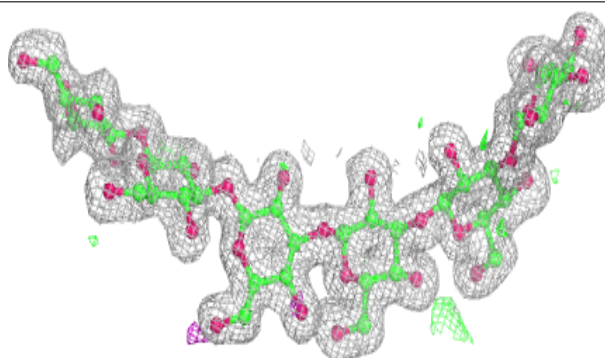


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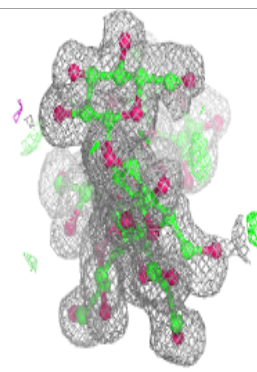
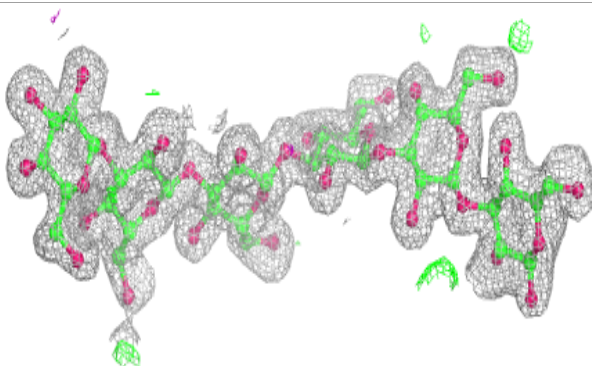
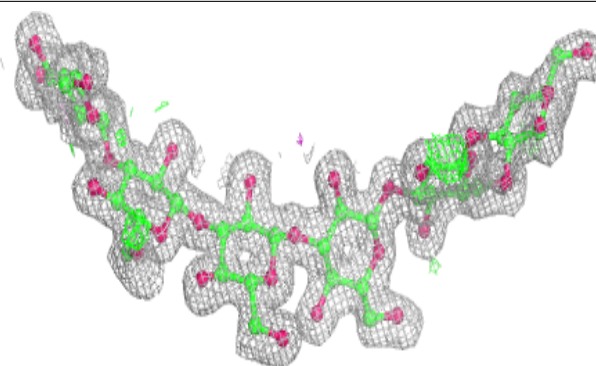
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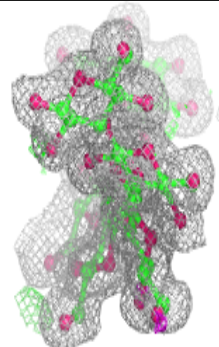
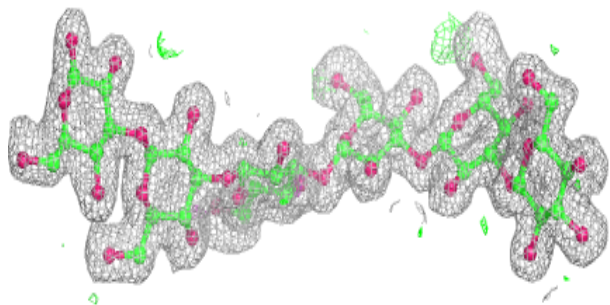
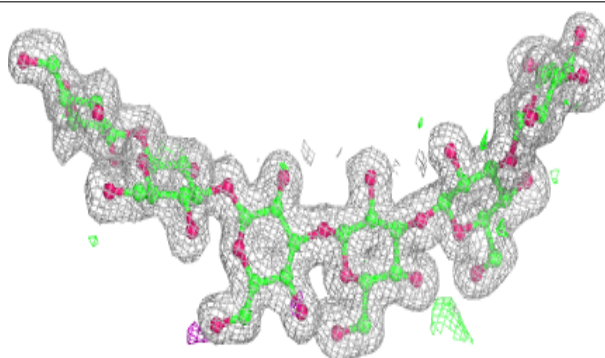


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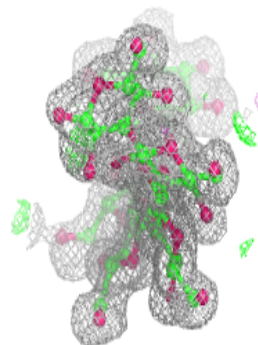
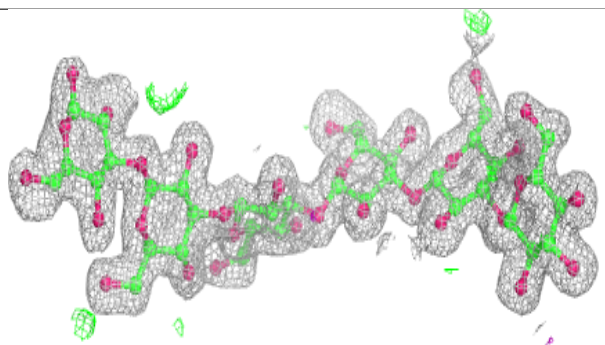
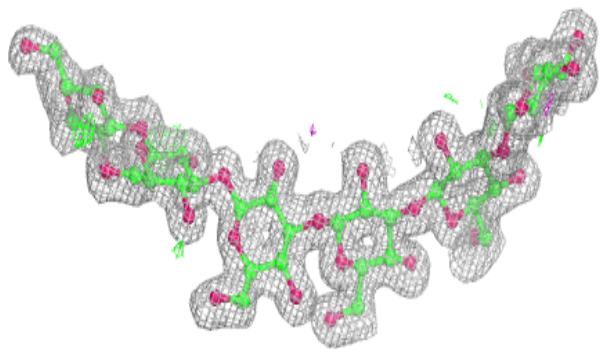
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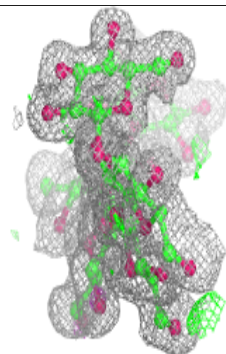
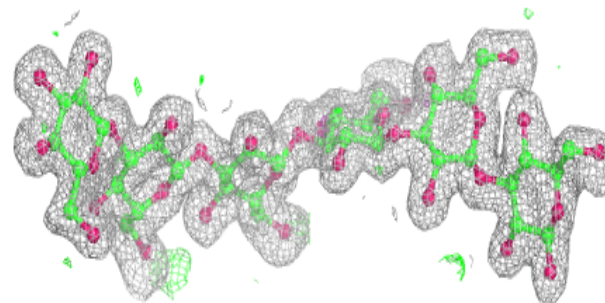
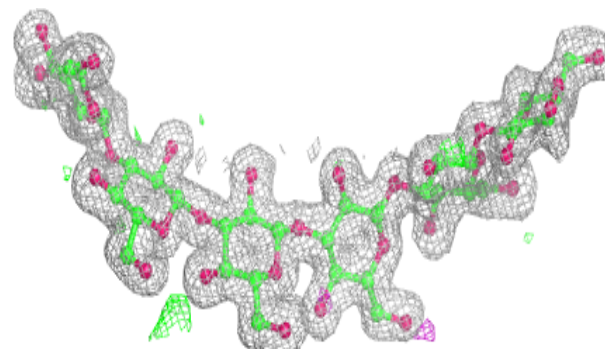


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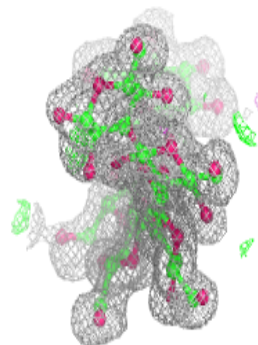
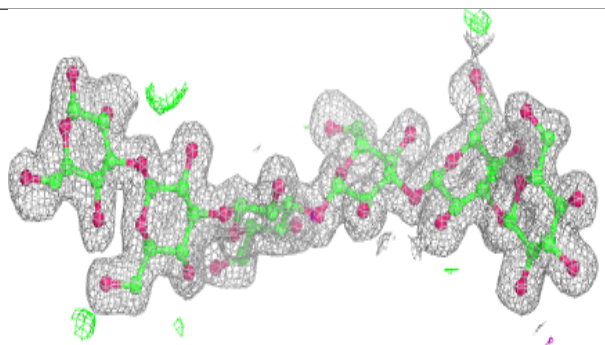
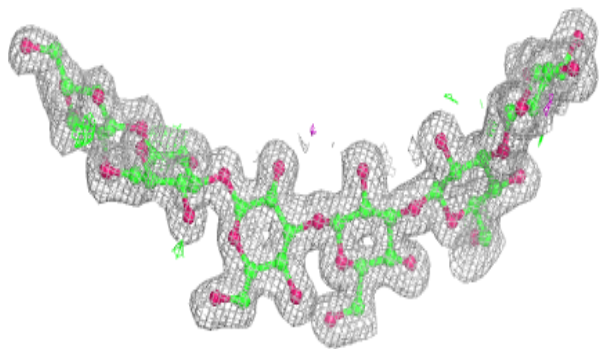
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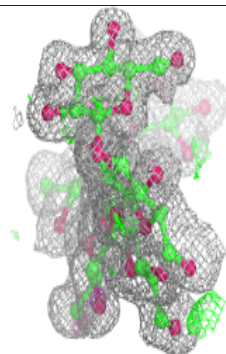
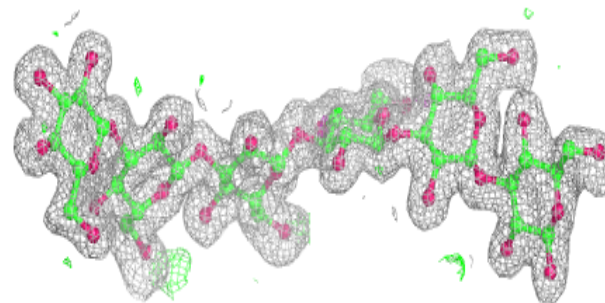
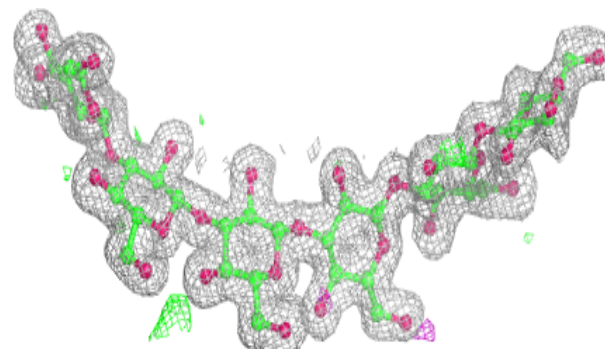


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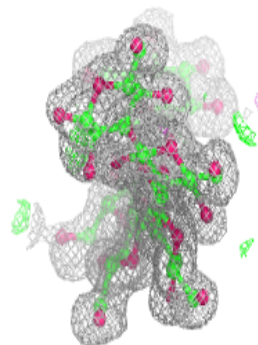
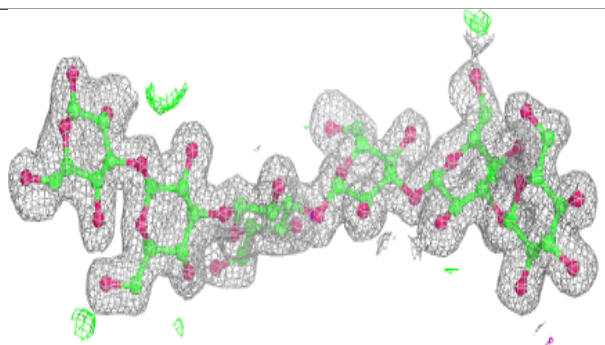
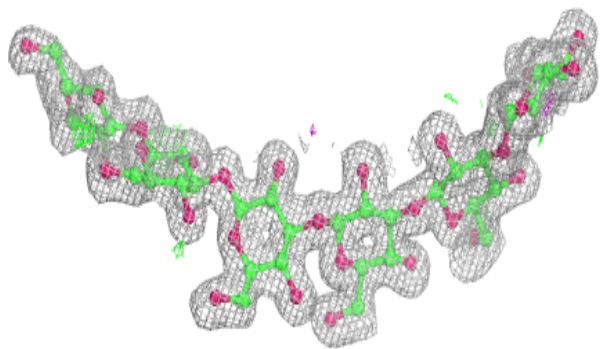
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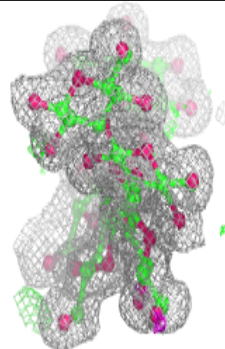
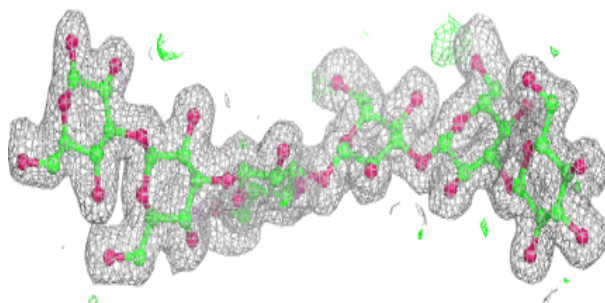
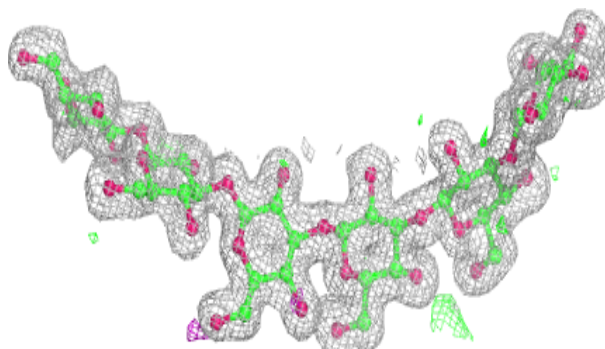


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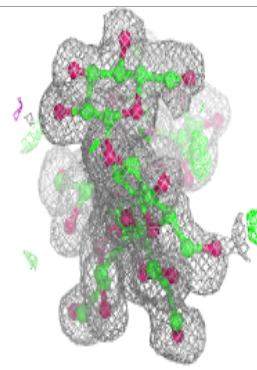
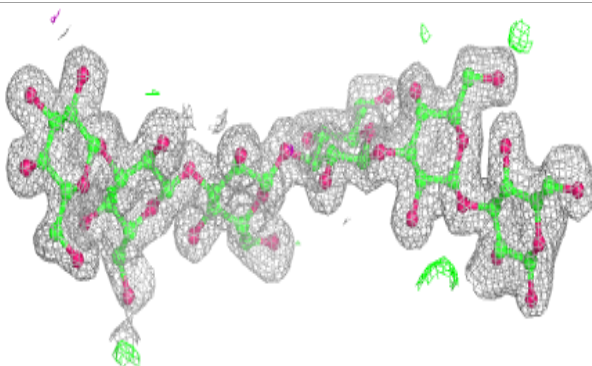
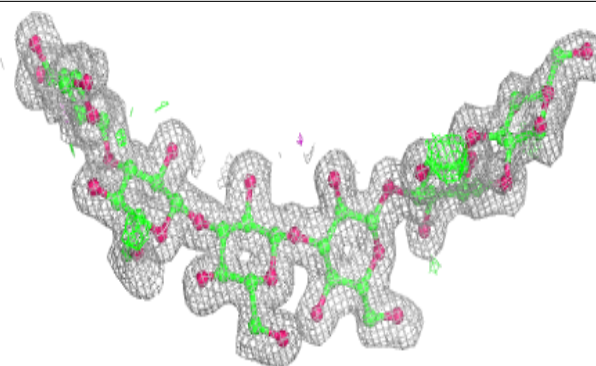
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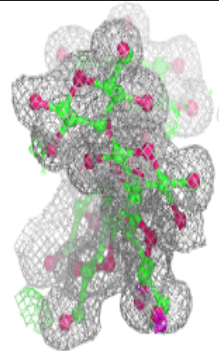
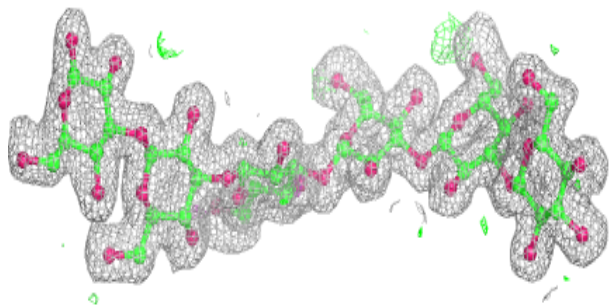
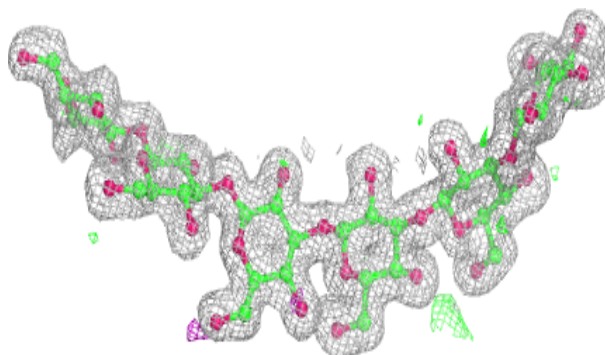


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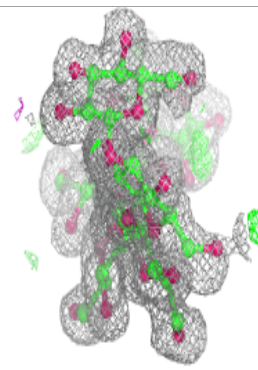
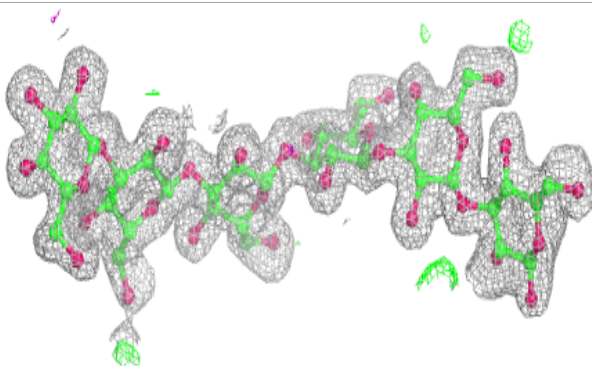
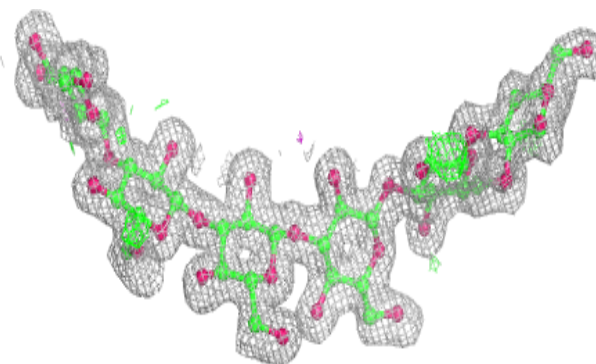
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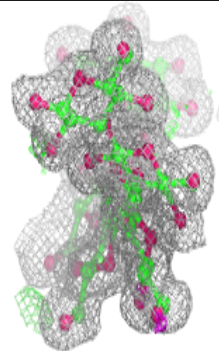
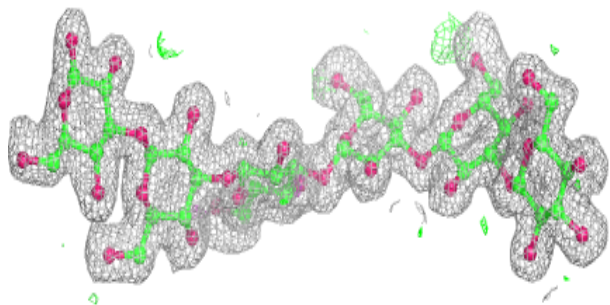
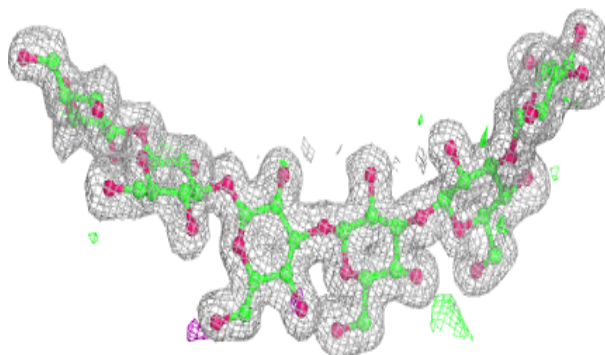


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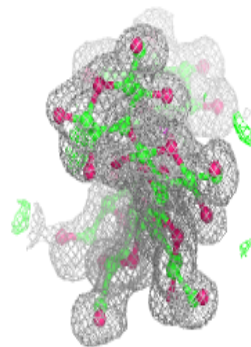
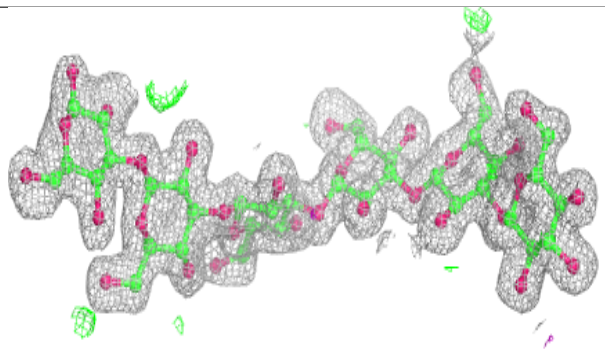
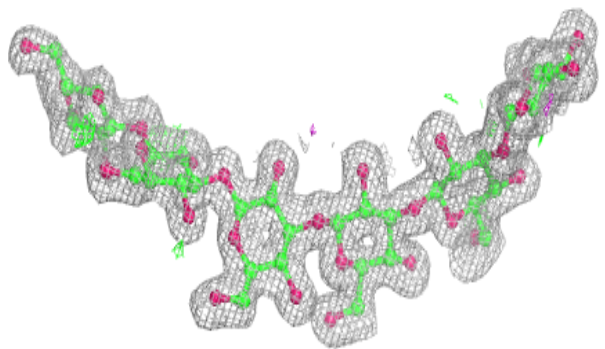
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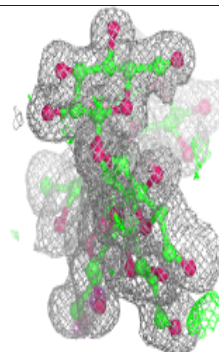
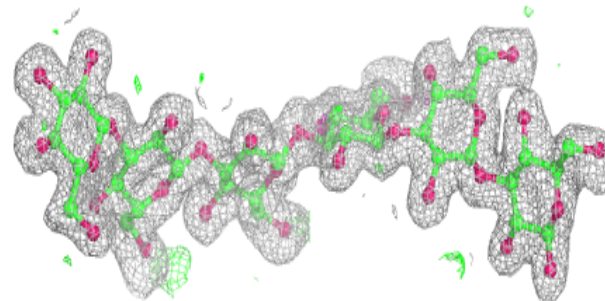
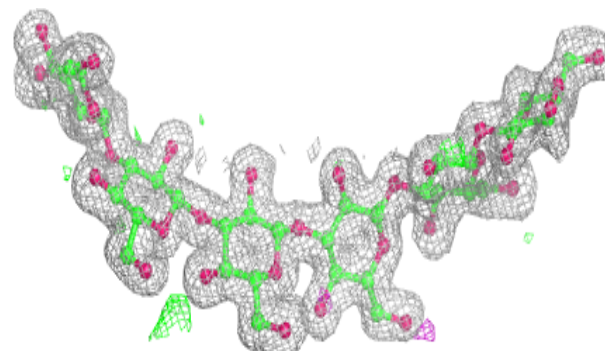


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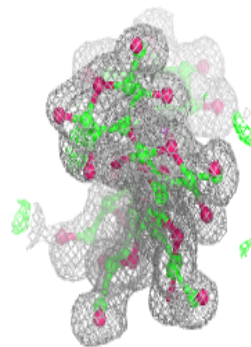
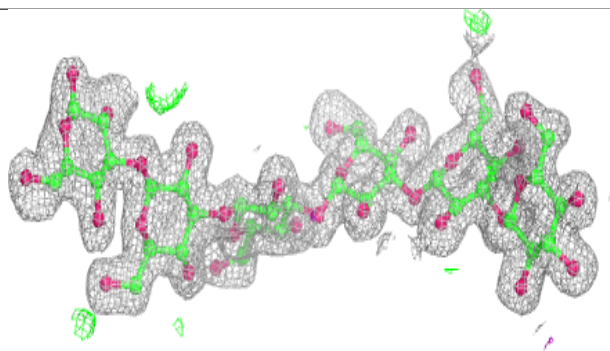
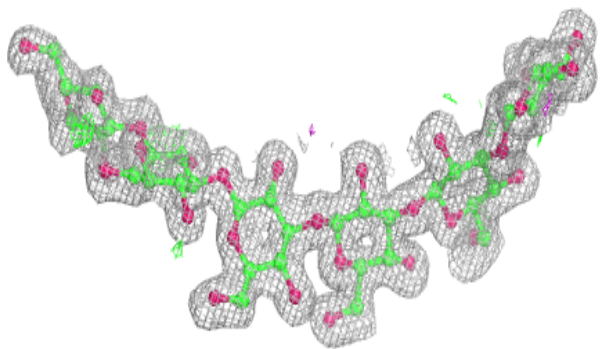
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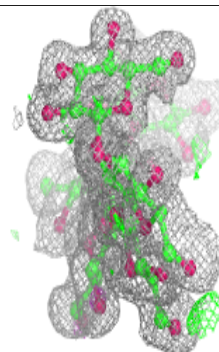
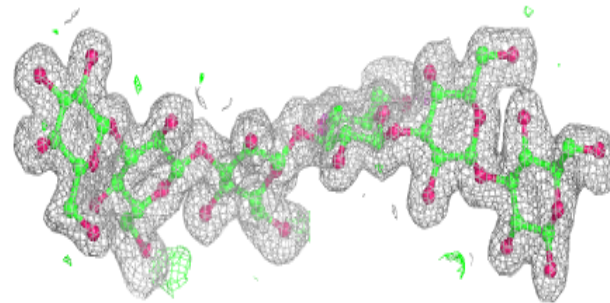
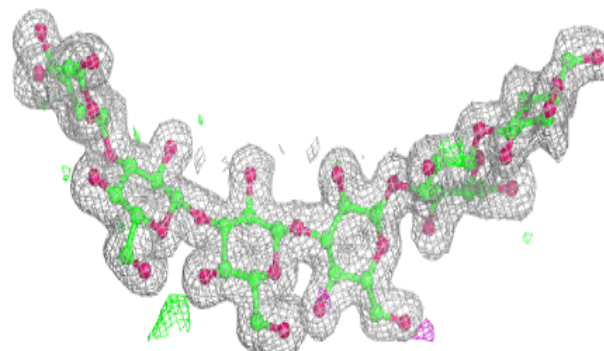


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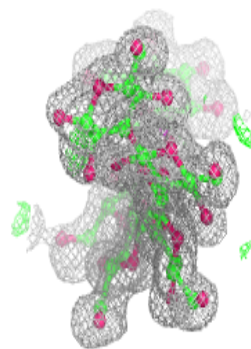
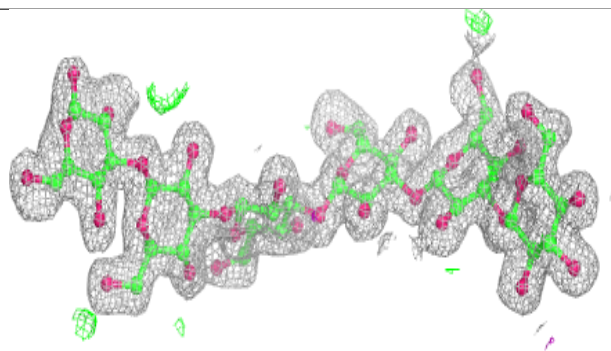
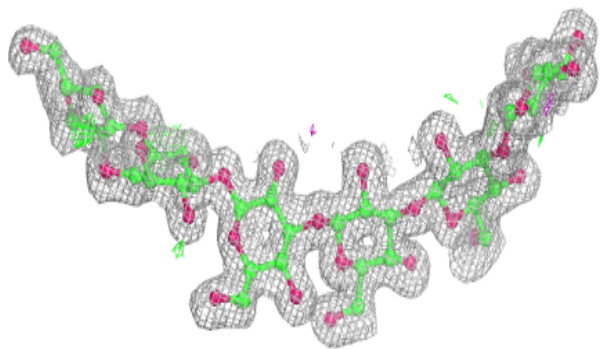
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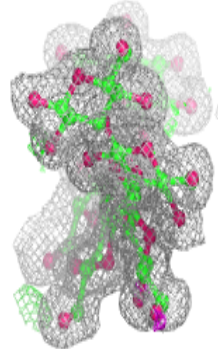
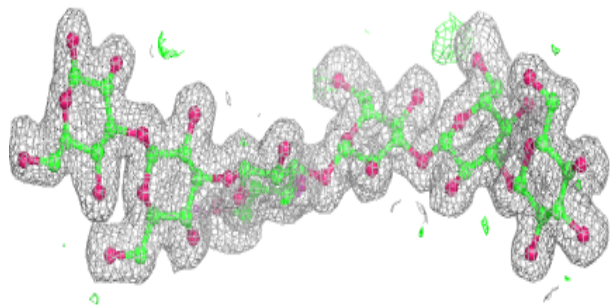
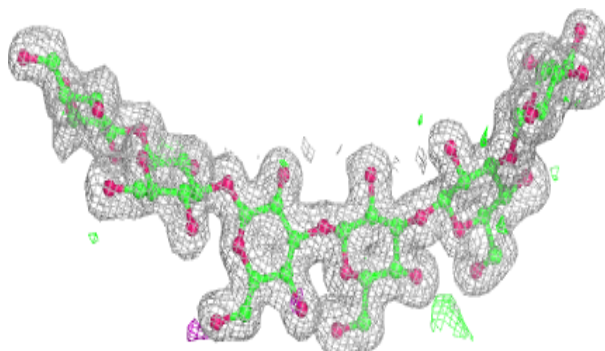


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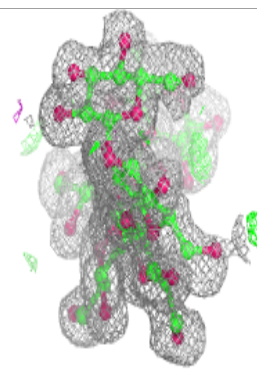
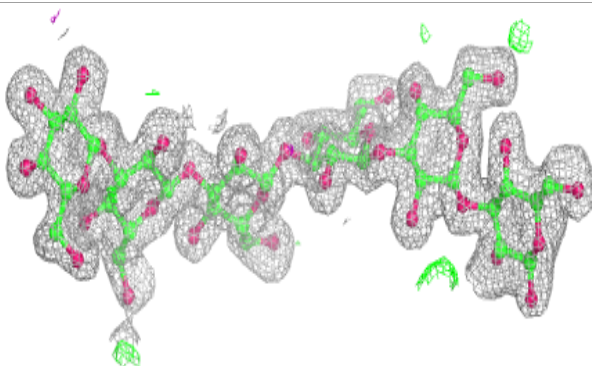
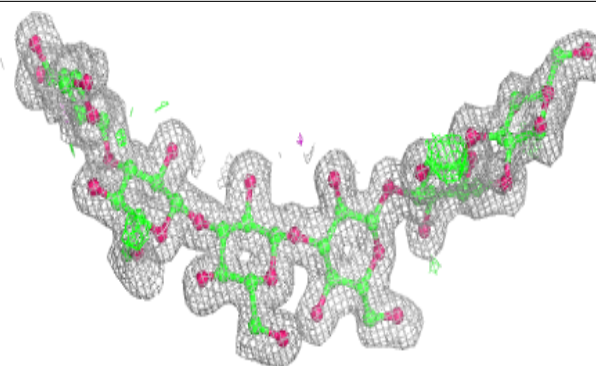
**Electron density around Chain E:**

$2mF_o-DF_c$  (at 0.7 rnsd) in gray  
 $mF_o-DF_c$  (at 3 rnsd) in purple (negative)  
and green (positive)

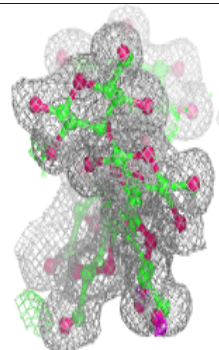
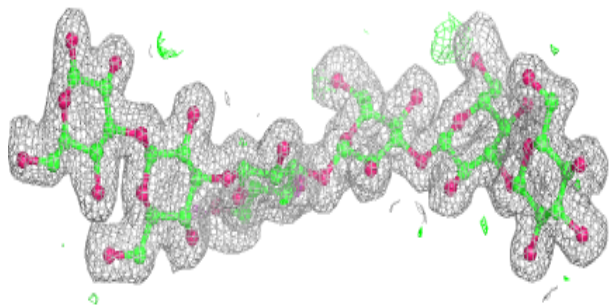
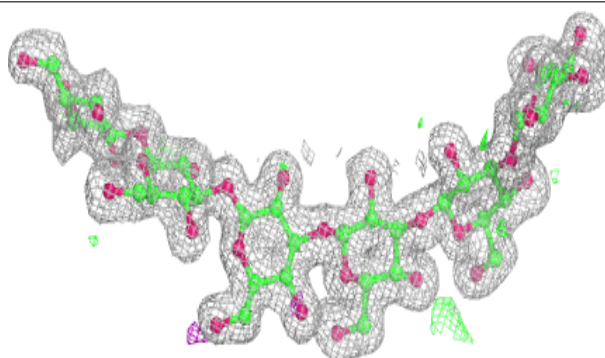


**Electron density around Chain C:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around Chain E:**

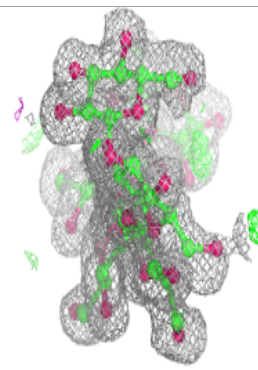
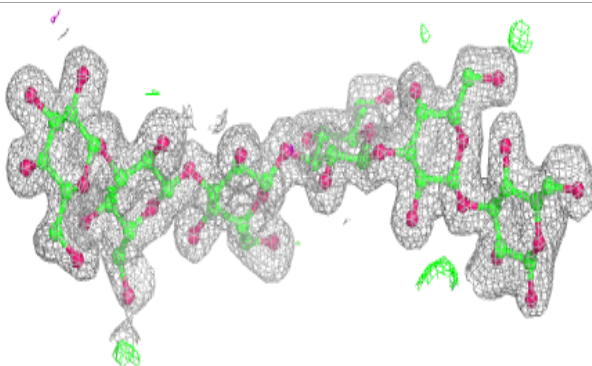
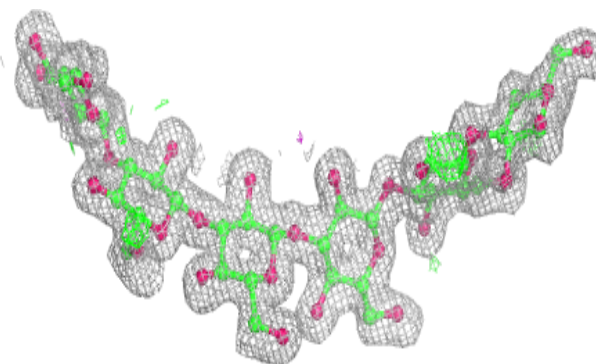
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



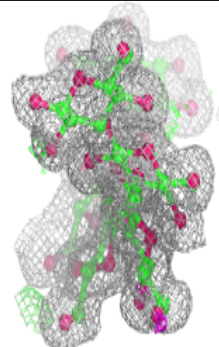
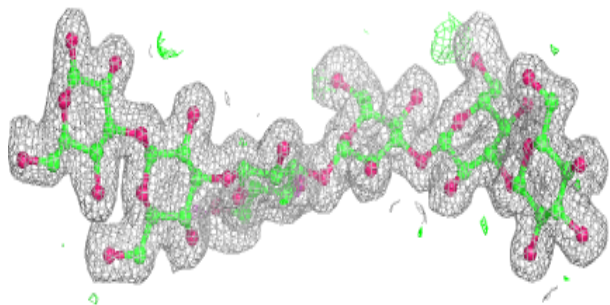
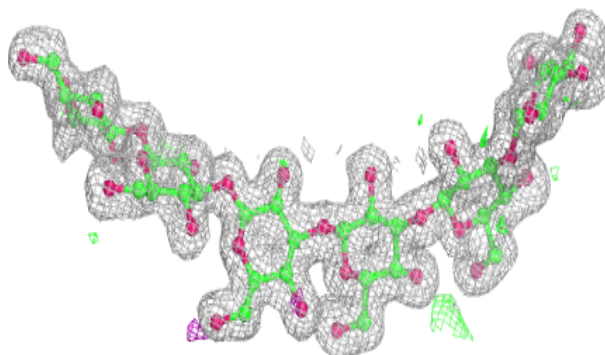


**Electron density around Chain C:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

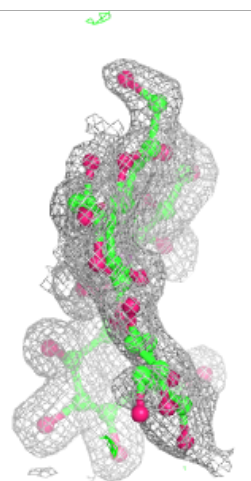
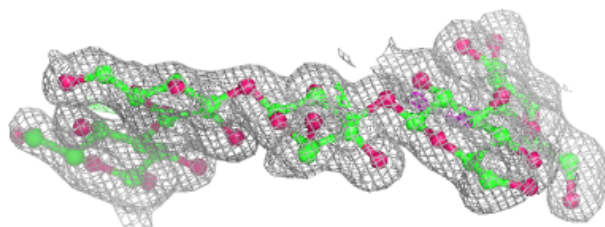
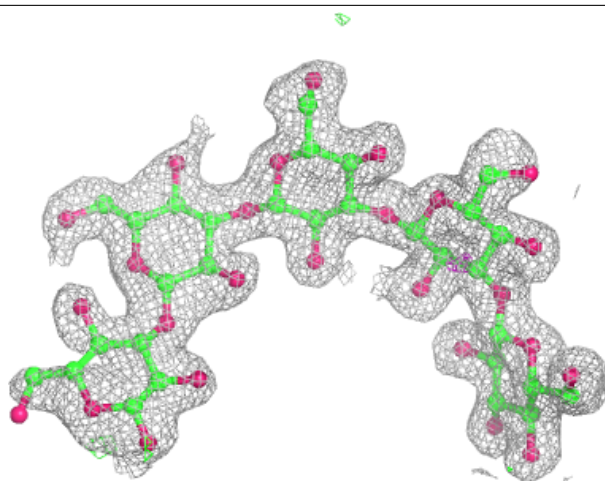
**Electron density around Chain E:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



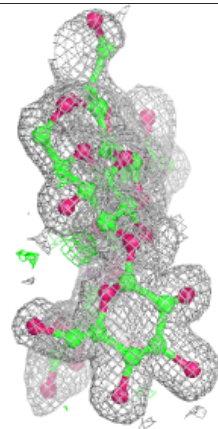
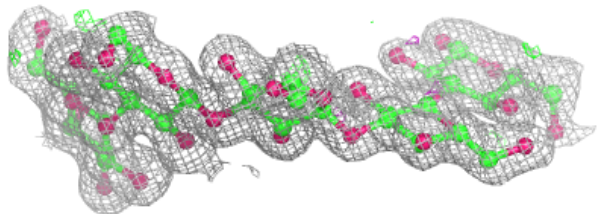
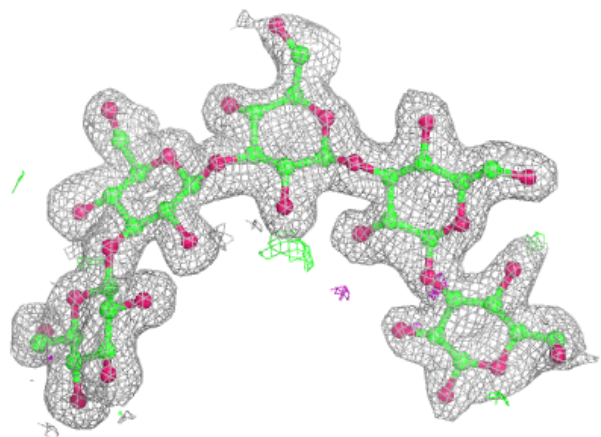
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



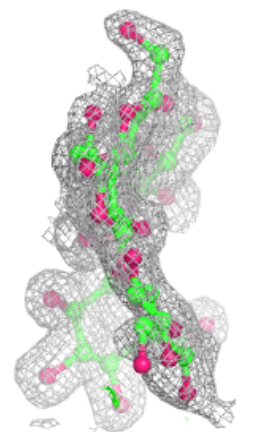
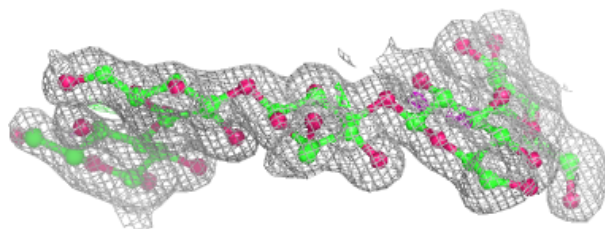
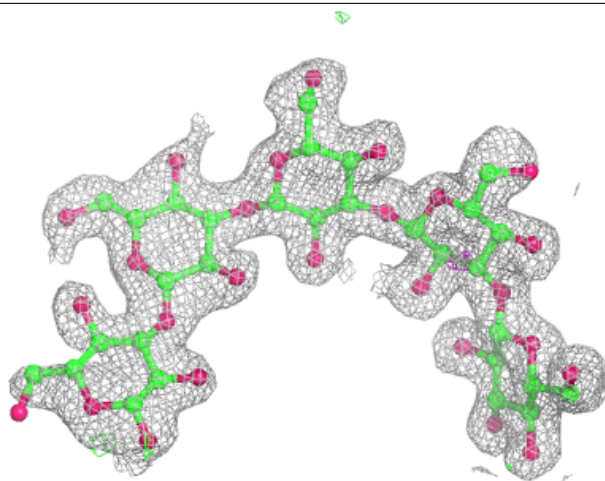
**Electron density around Chain F:**

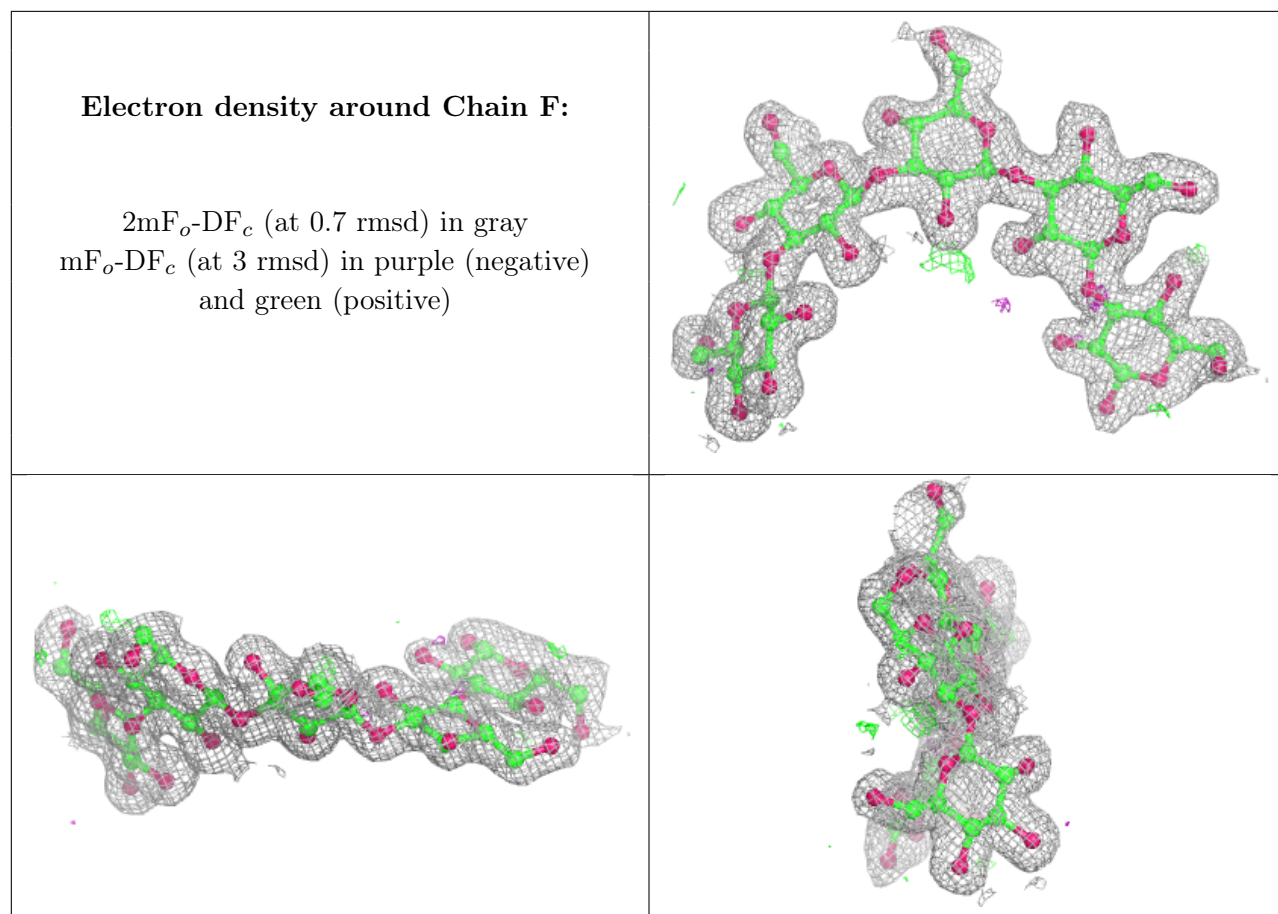
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around Chain D:**

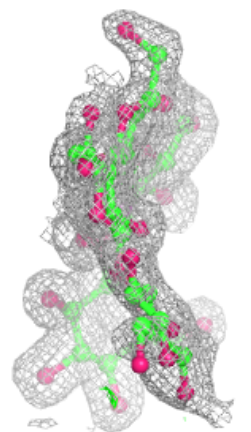
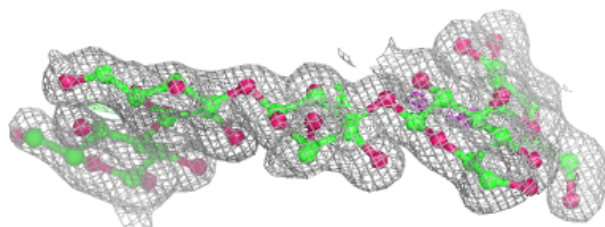
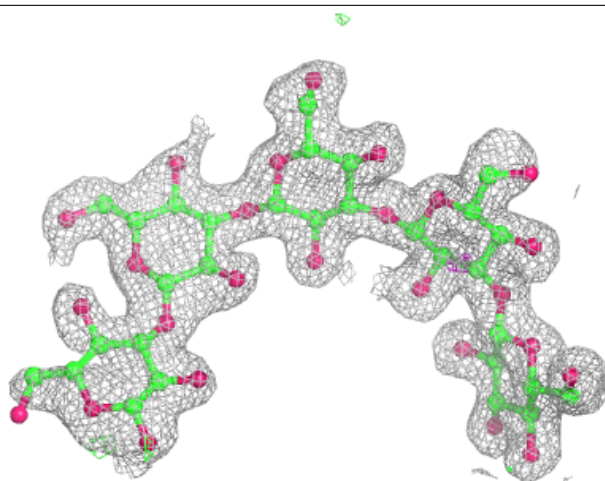
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





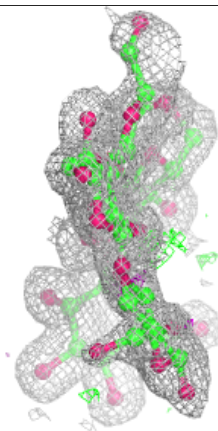
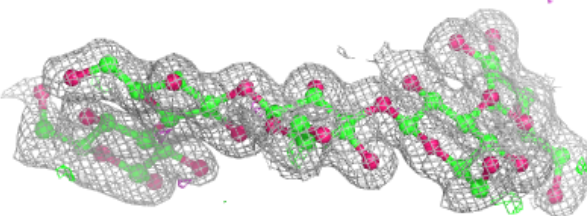
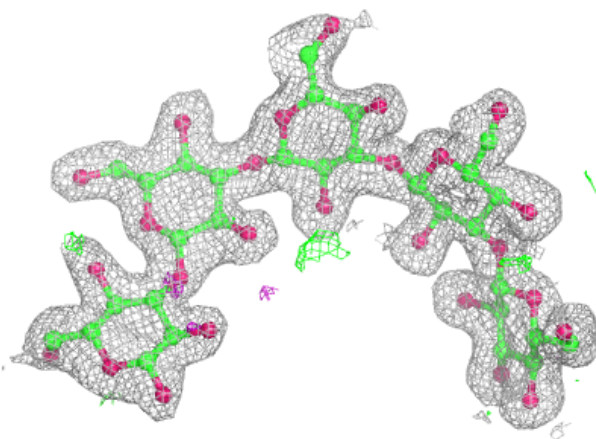
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



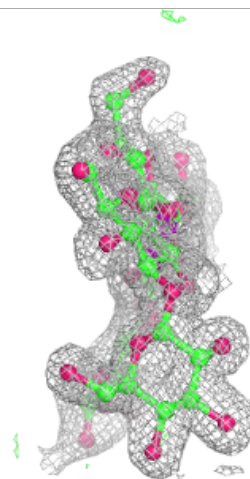
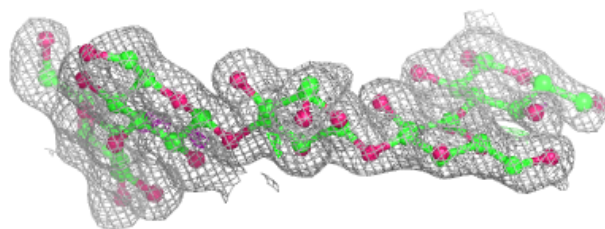
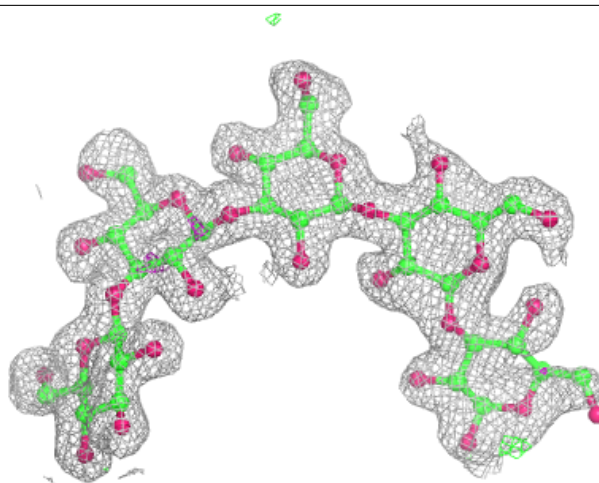
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around Chain D:**

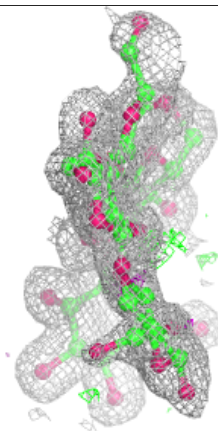
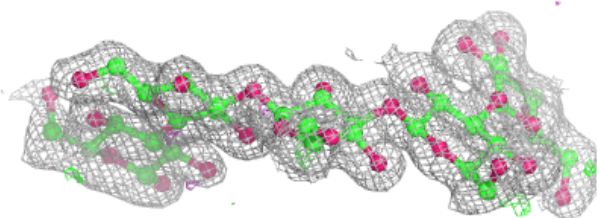
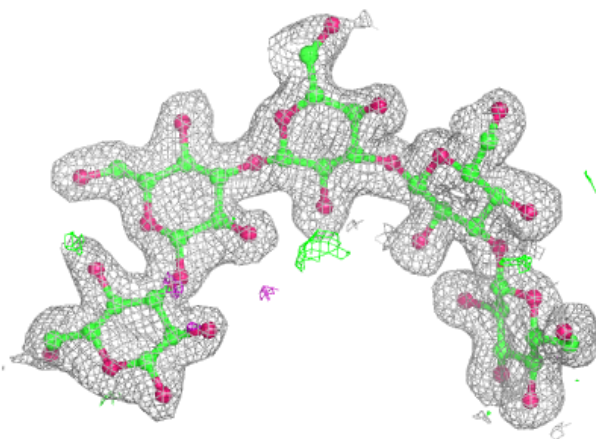
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





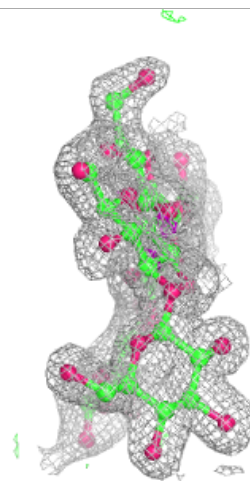
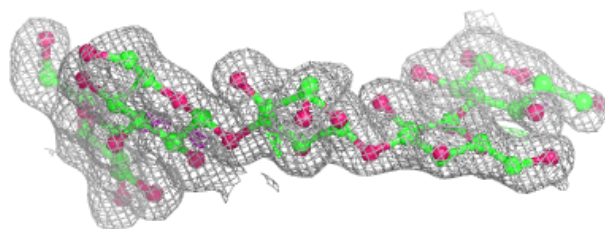
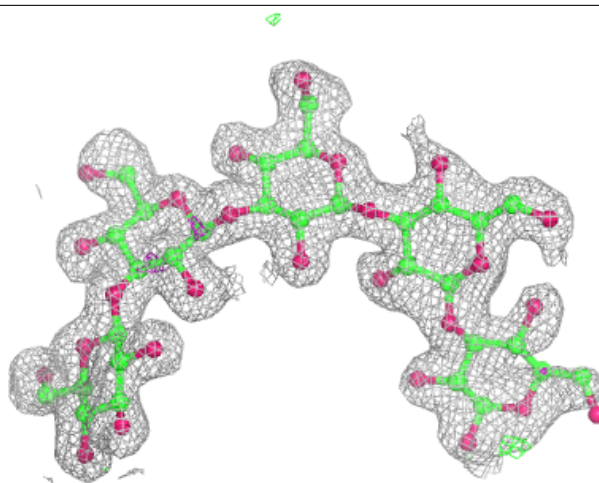
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



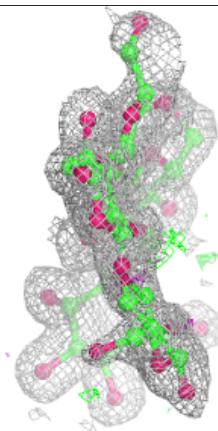
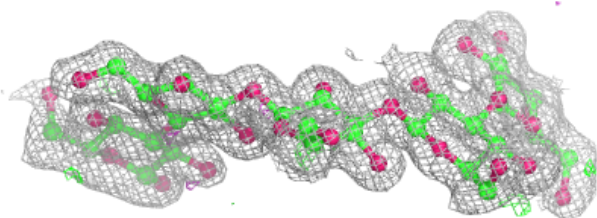
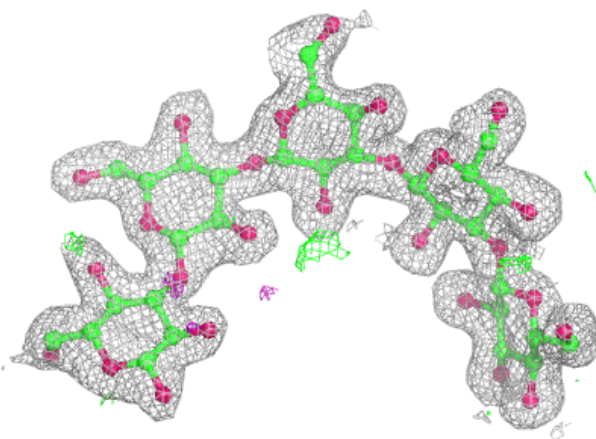
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



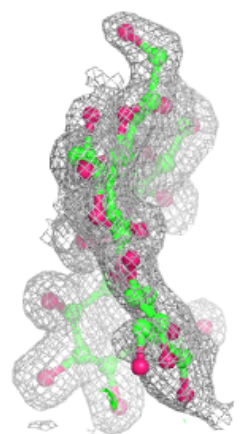
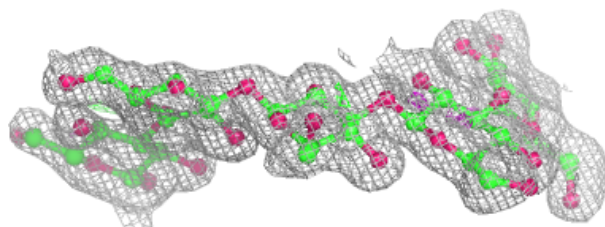
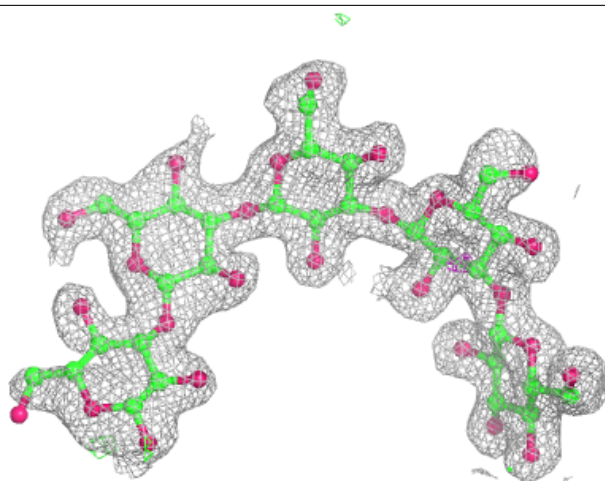
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



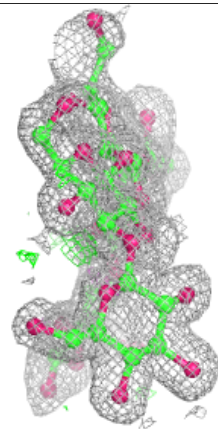
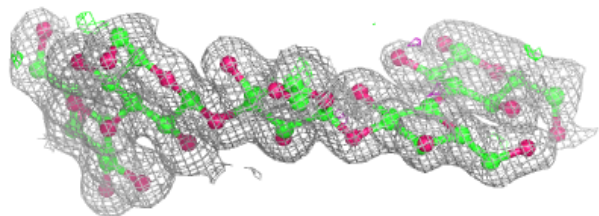
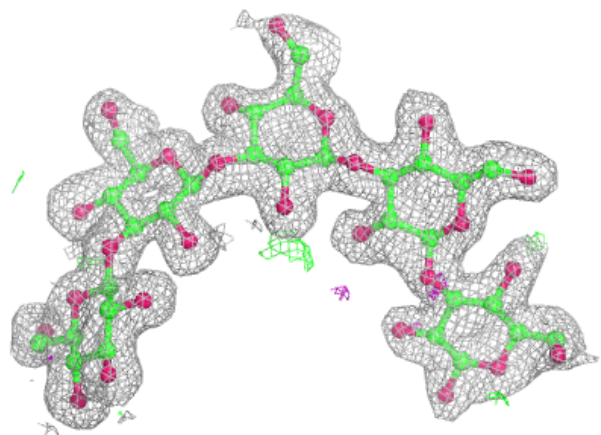
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



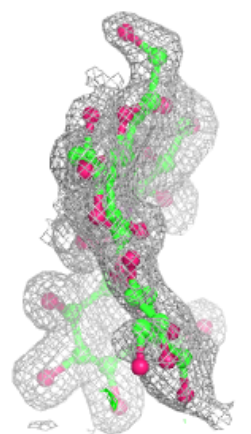
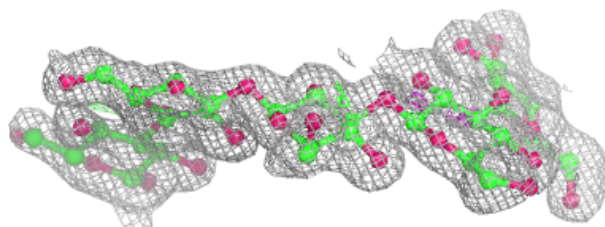
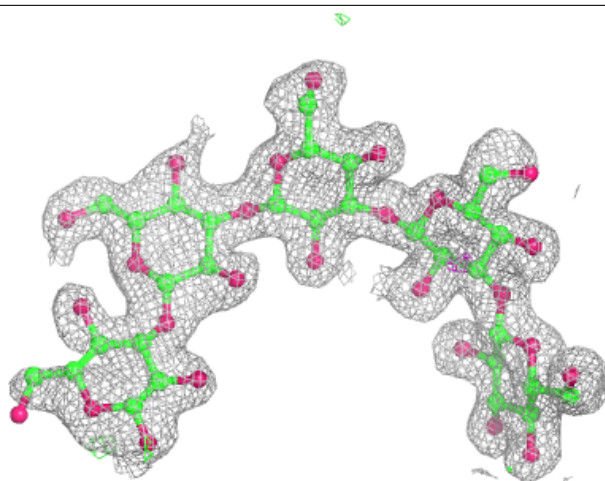
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



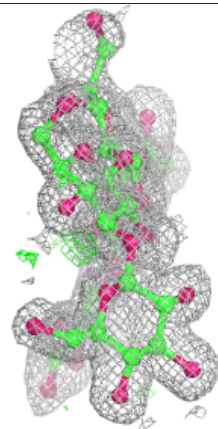
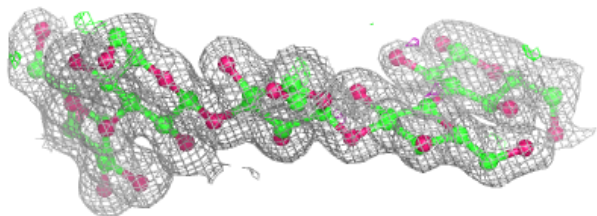
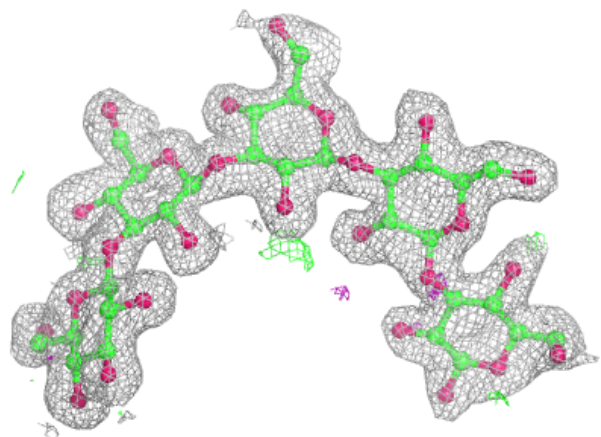
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



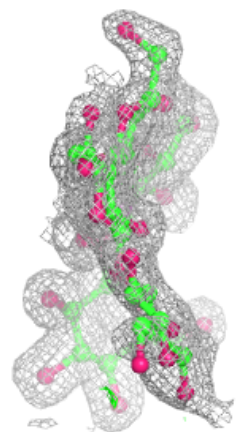
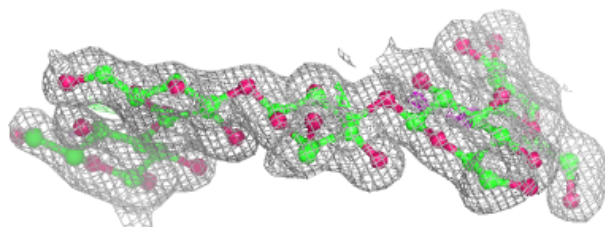
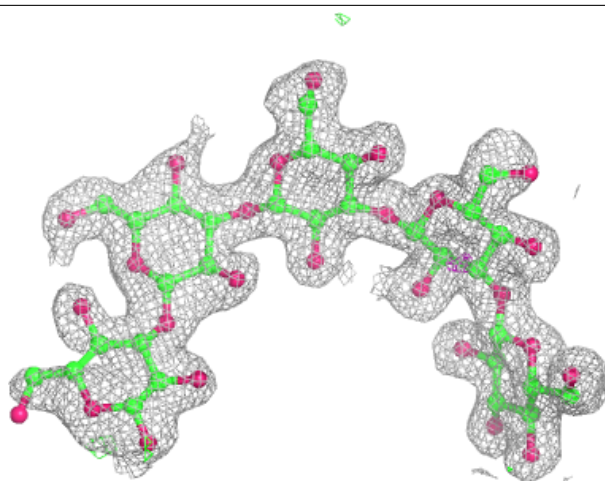
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around Chain D:**

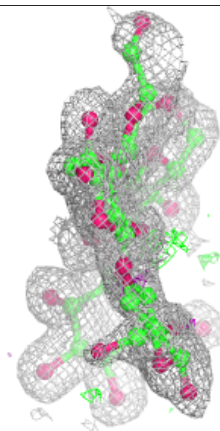
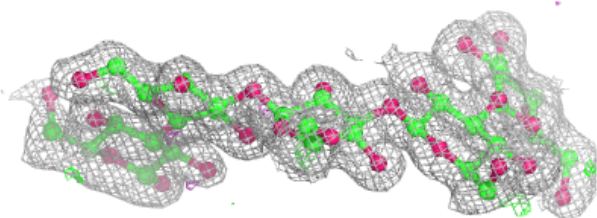
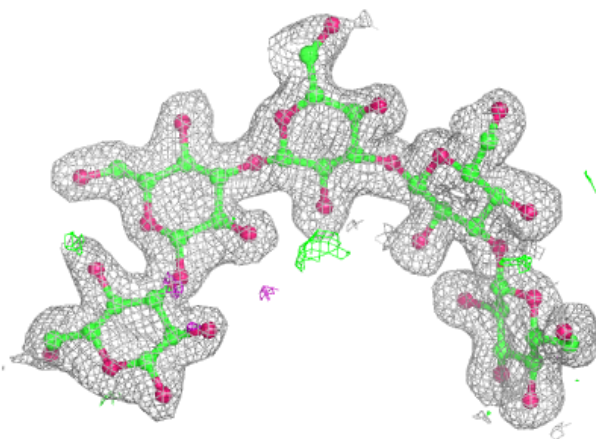
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





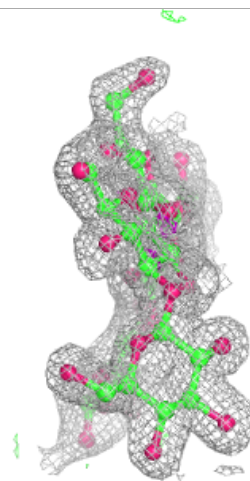
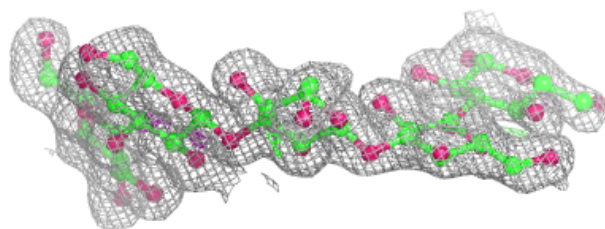
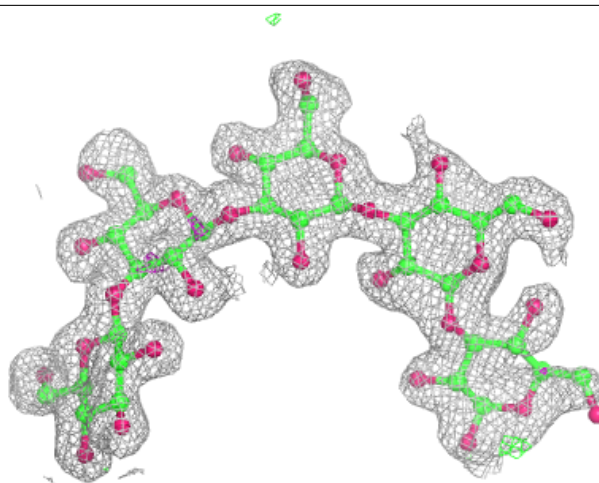
**Electron density around Chain F:**

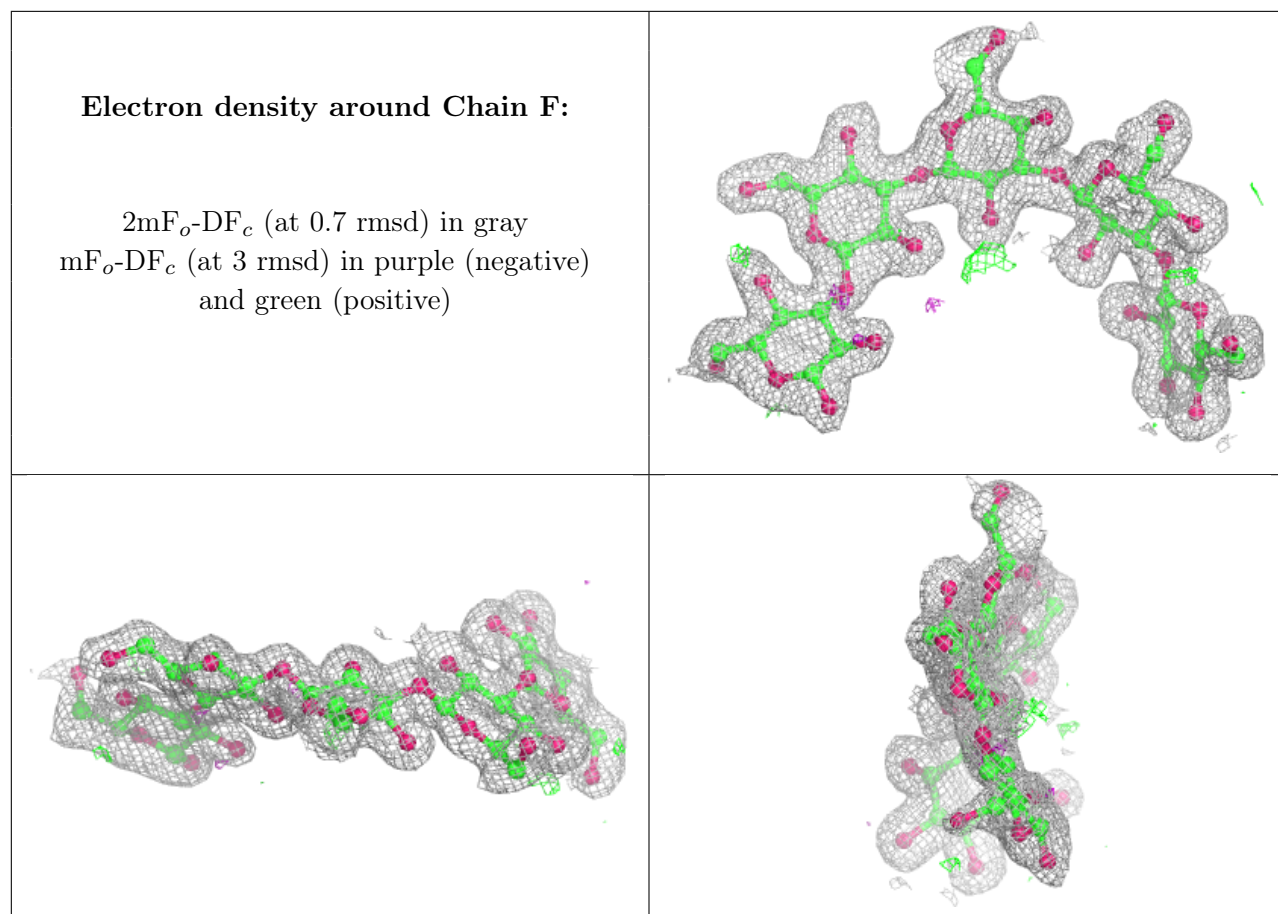
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around Chain D:**

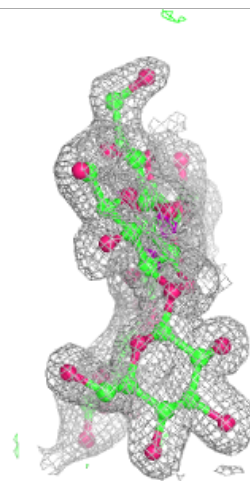
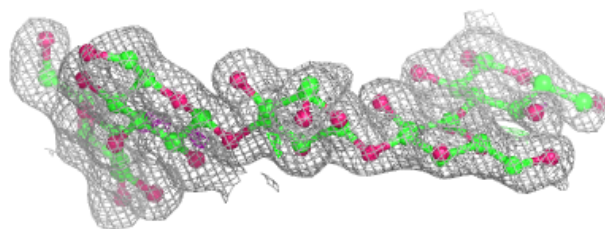
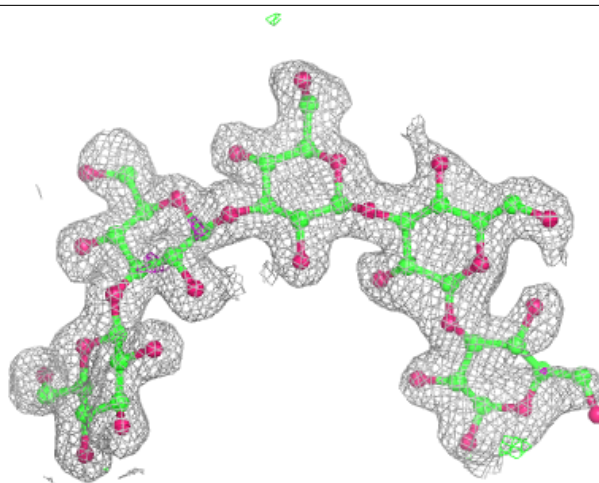
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





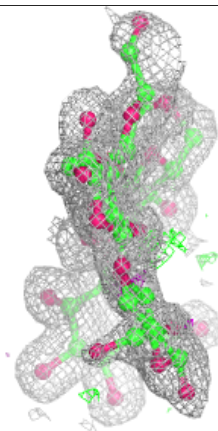
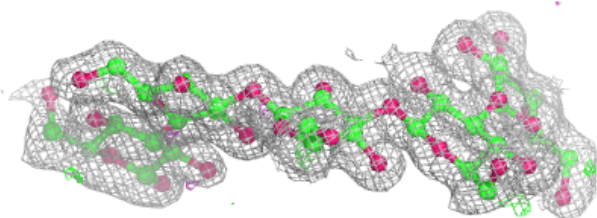
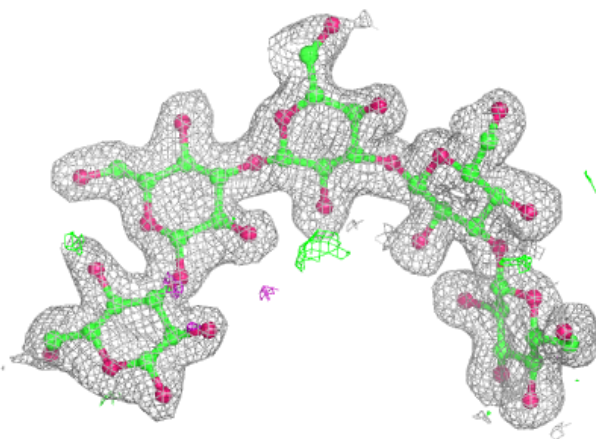
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



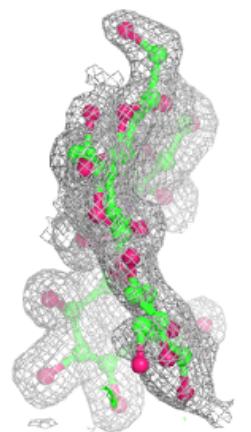
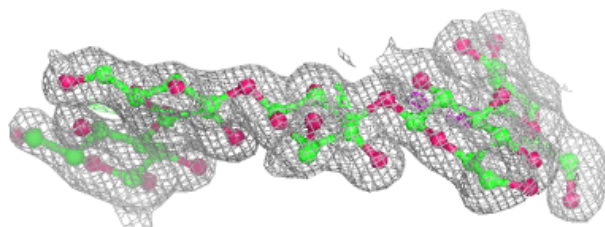
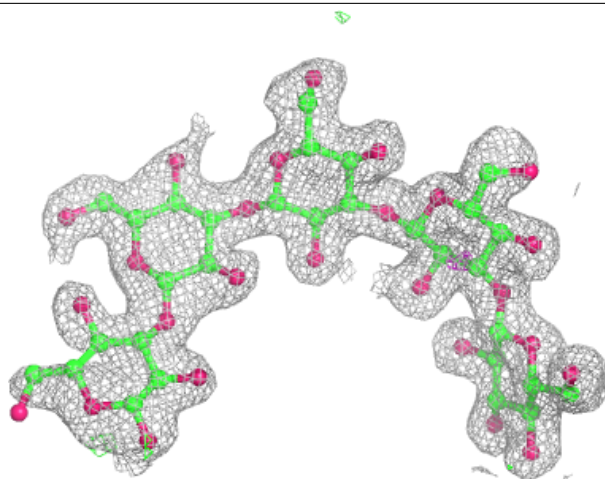
**Electron density around Chain F:**

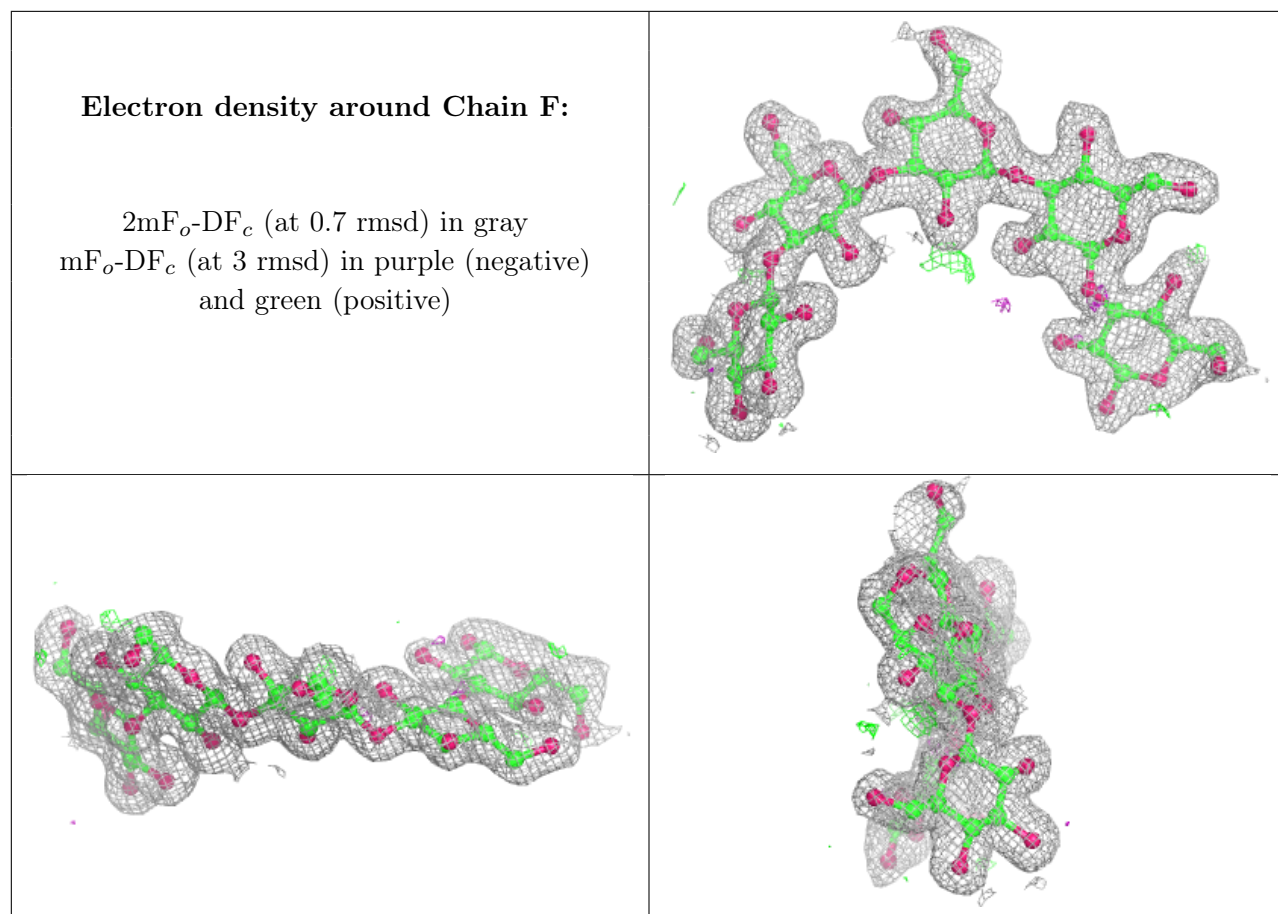
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around Chain D:**

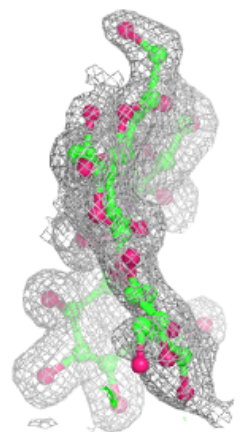
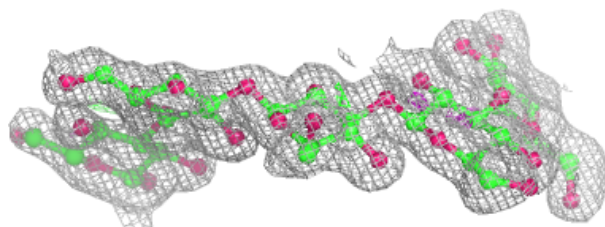
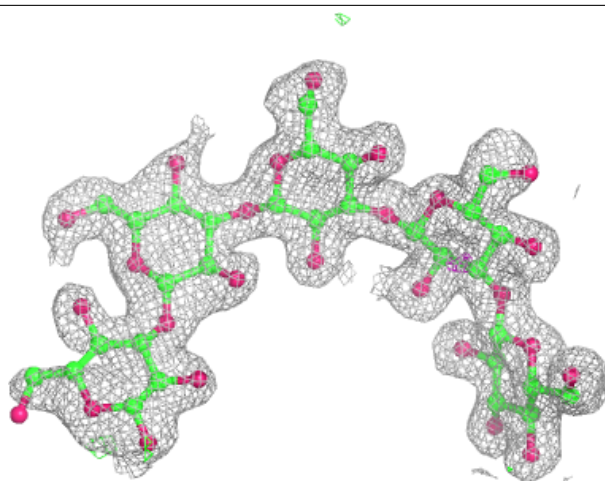
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



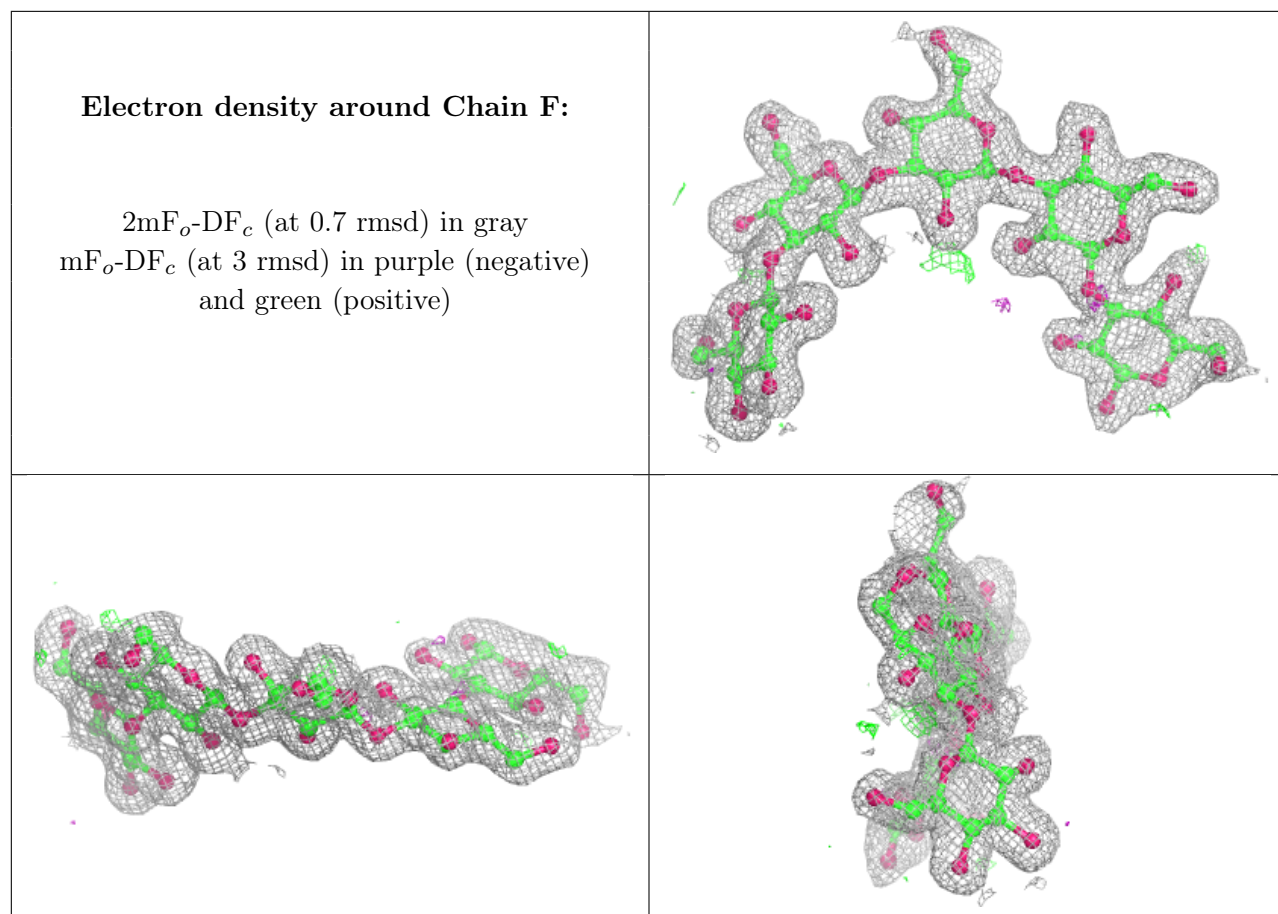


**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

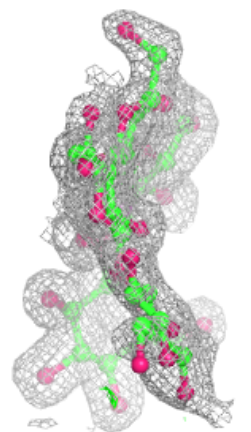
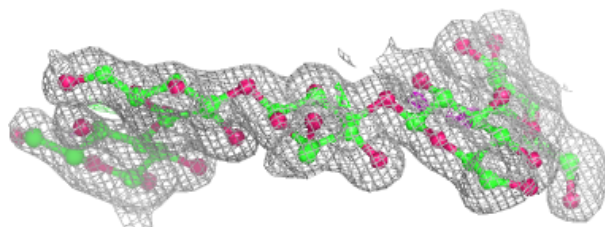
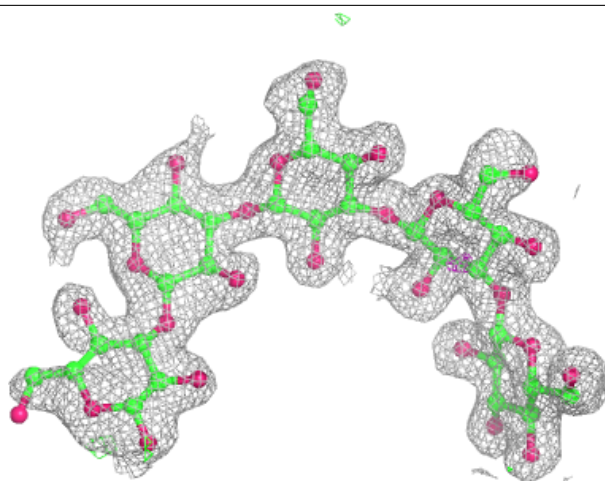






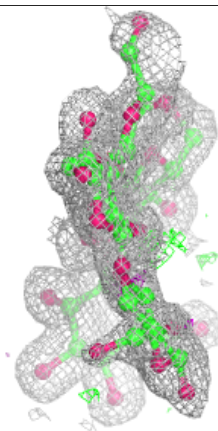
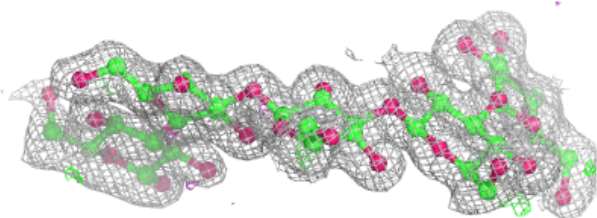
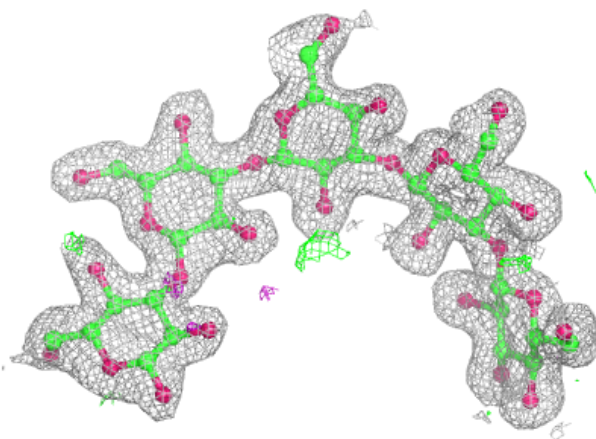
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



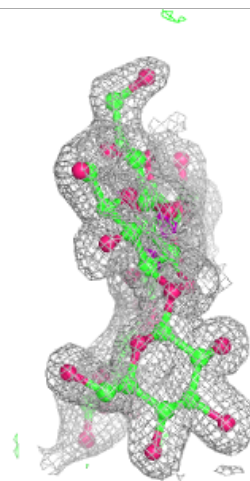
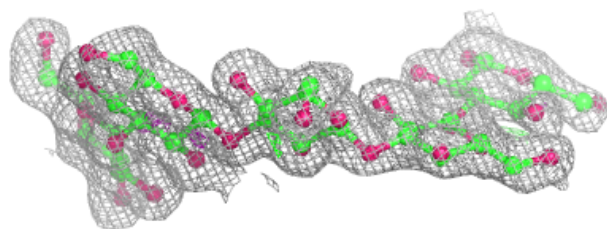
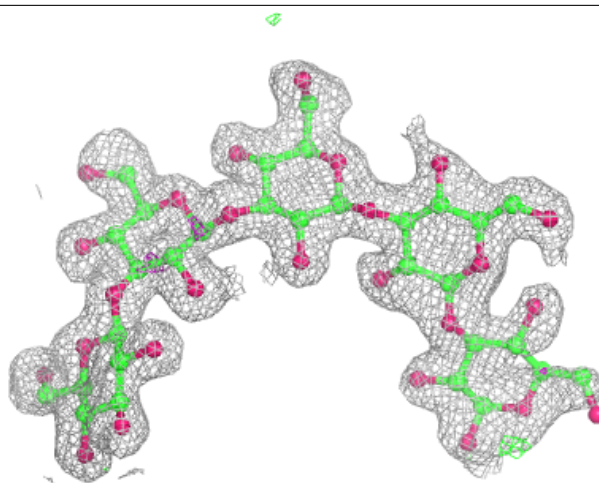
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



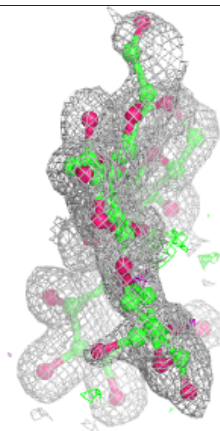
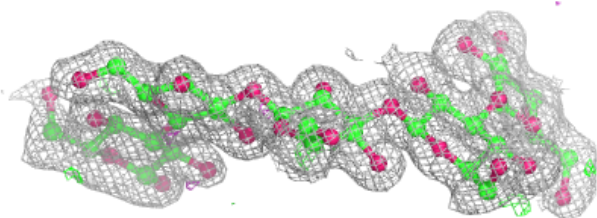
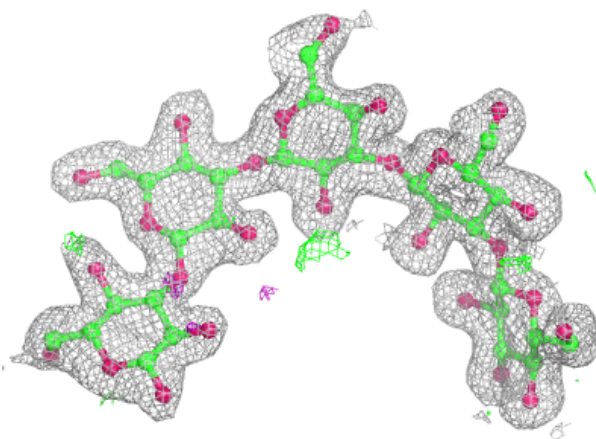
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



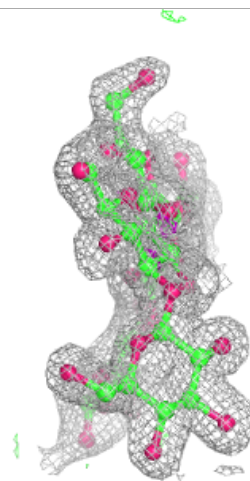
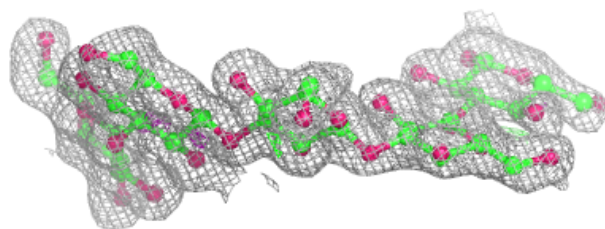
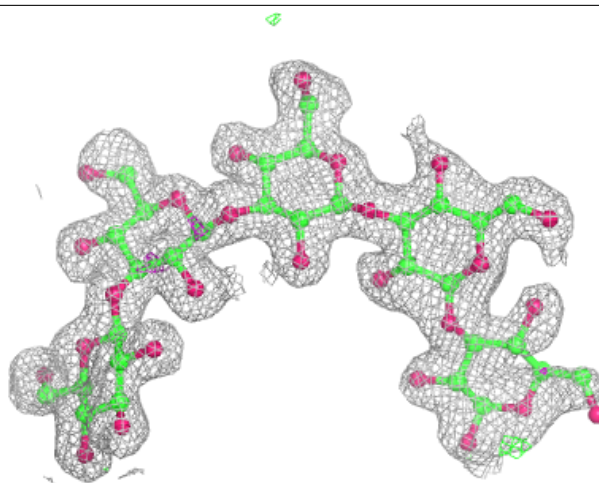
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



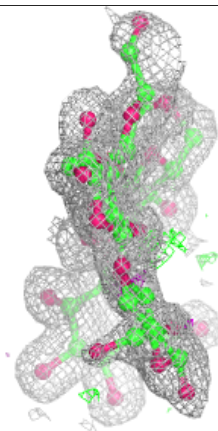
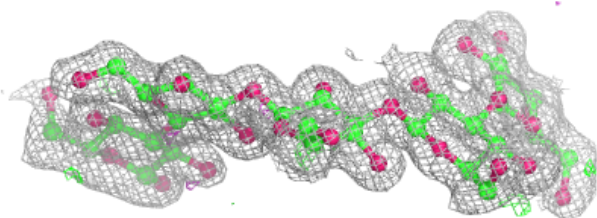
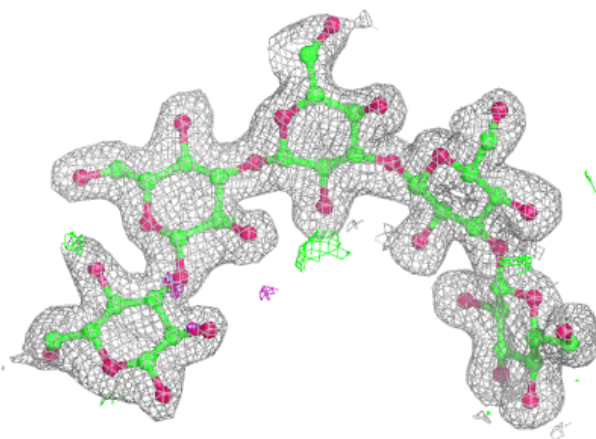
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



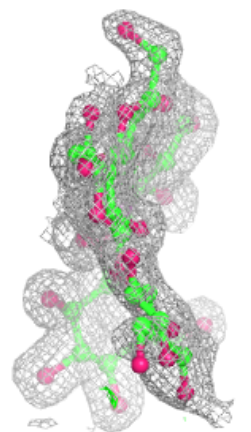
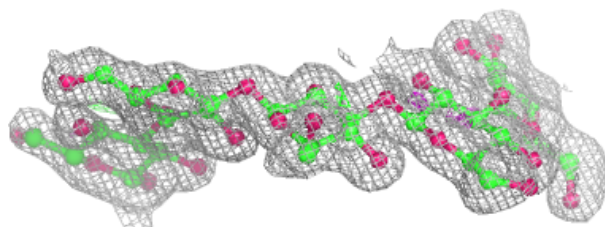
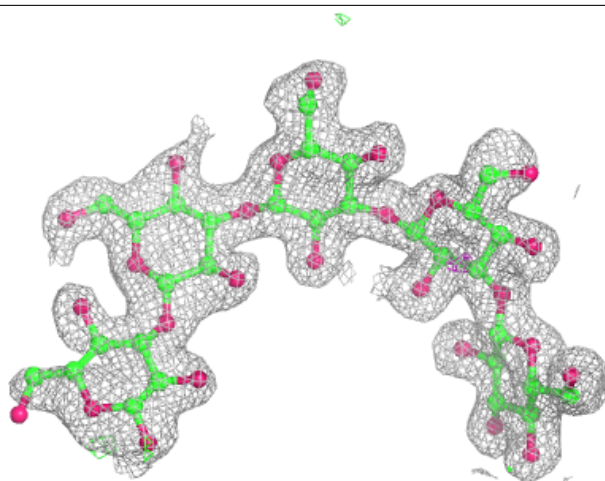
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

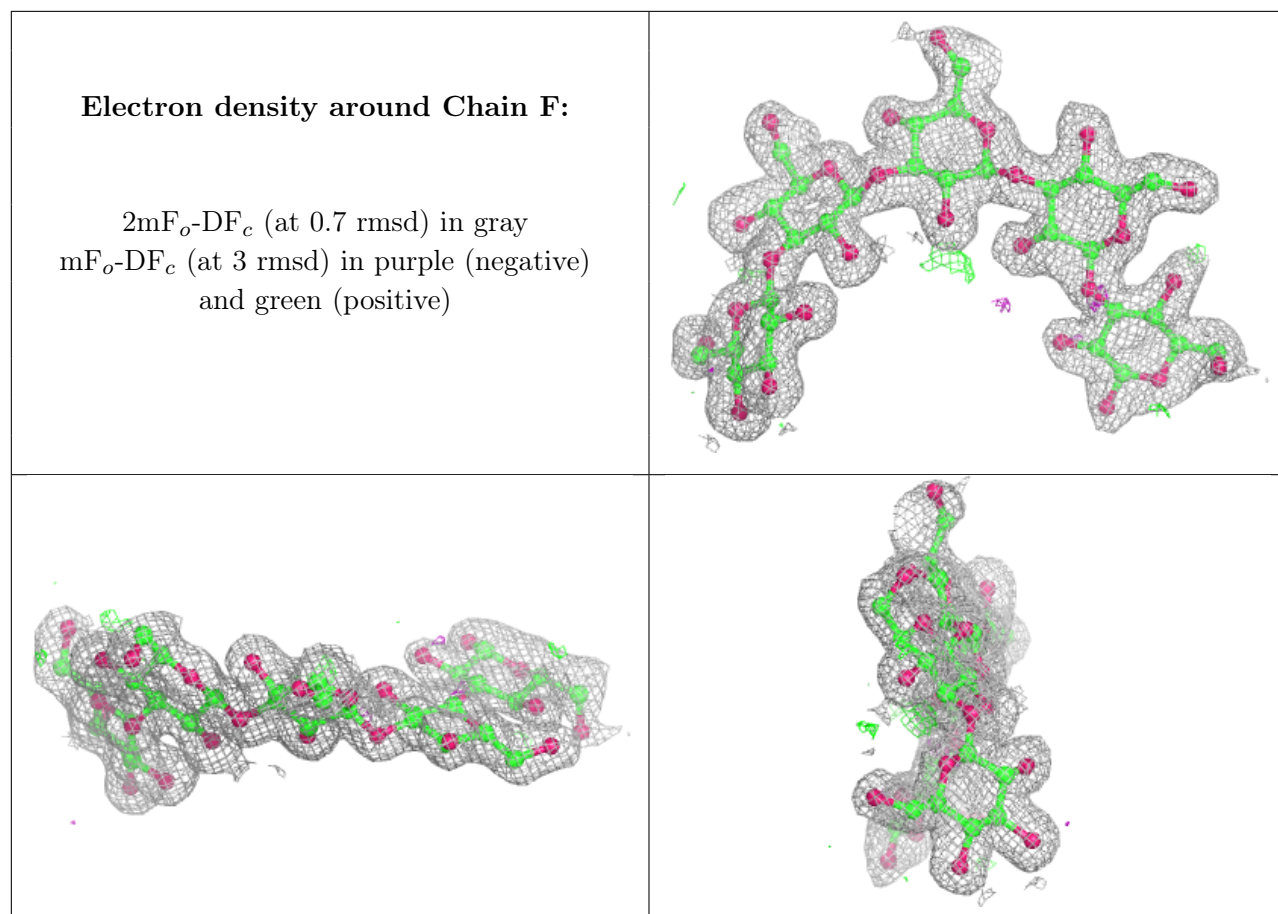


**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

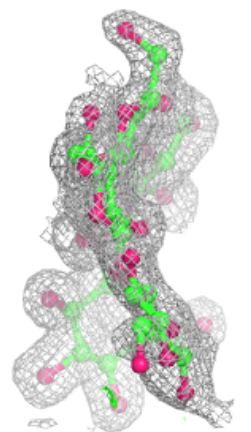
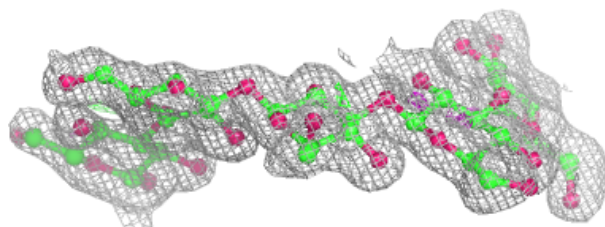
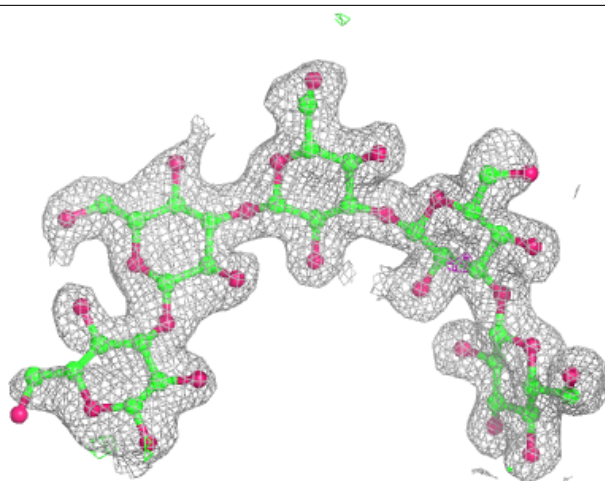


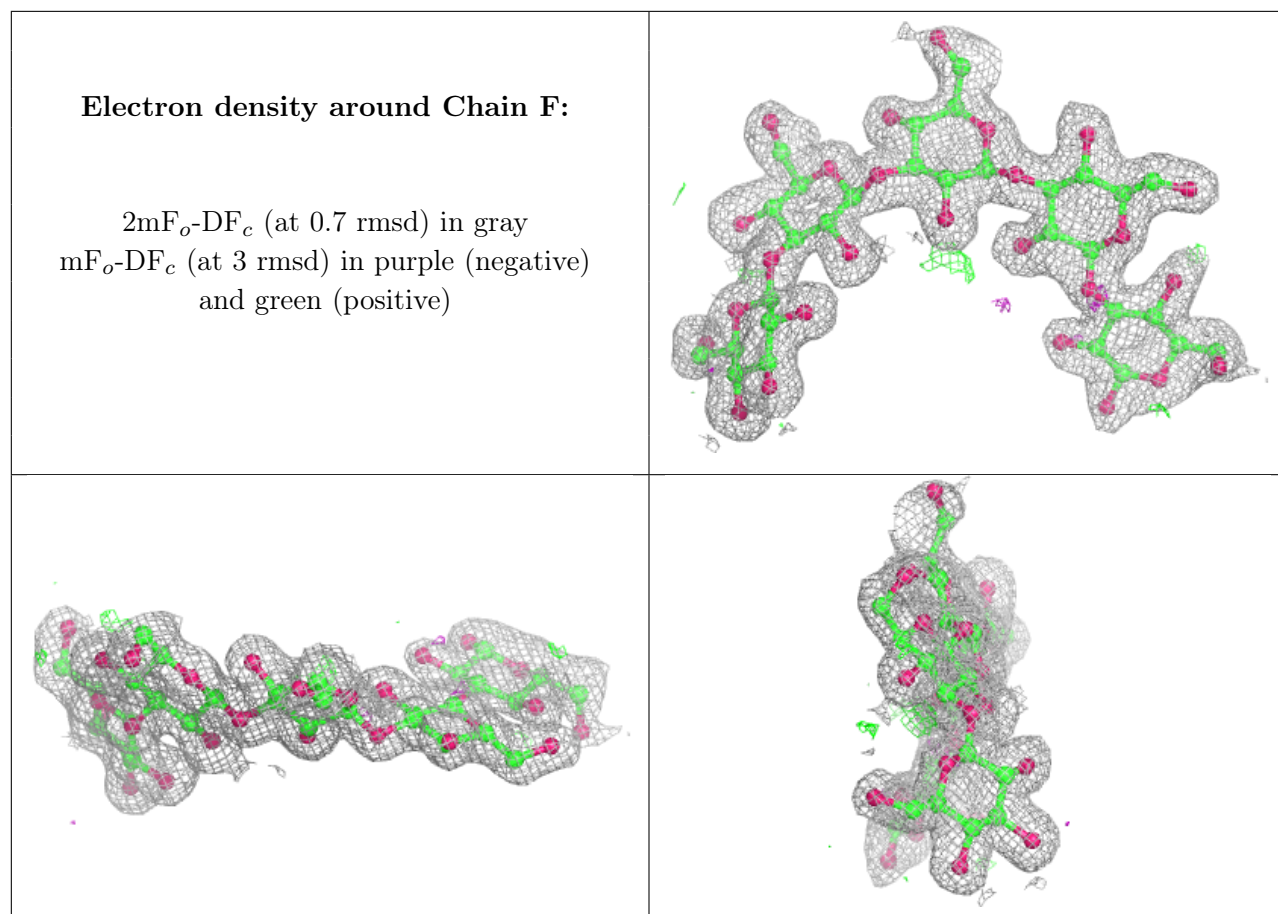




**Electron density around Chain D:**

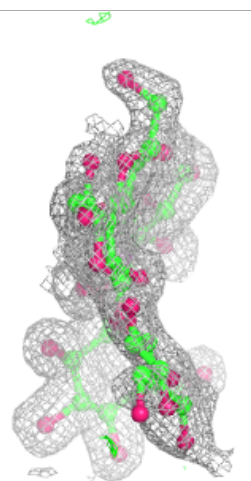
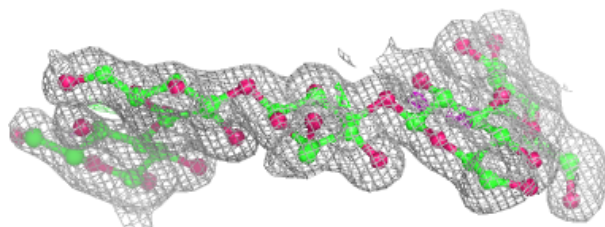
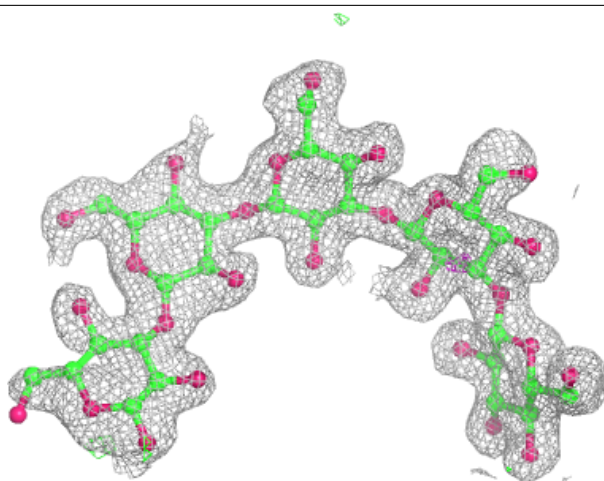
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

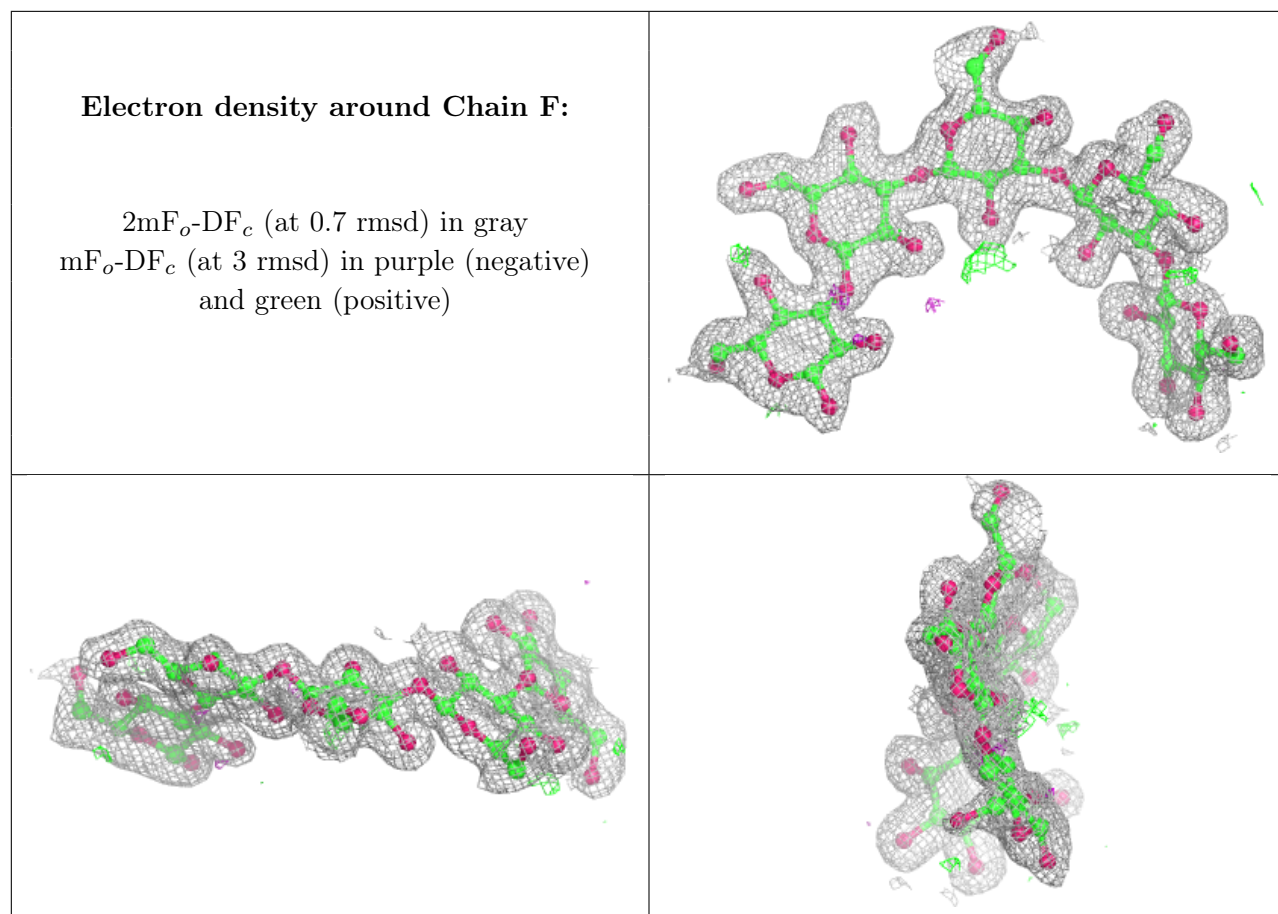




**Electron density around Chain D:**

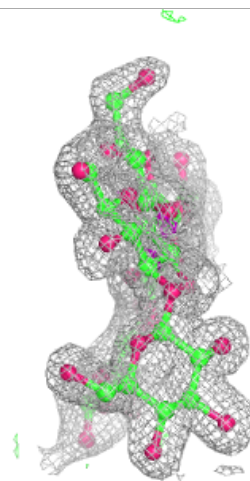
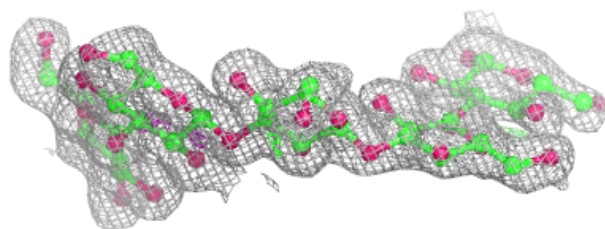
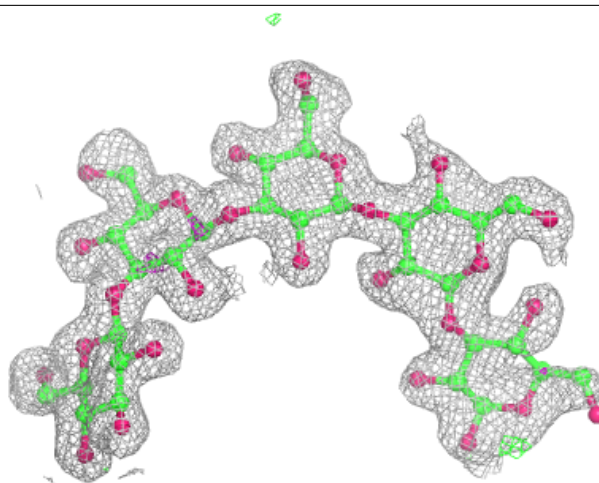
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

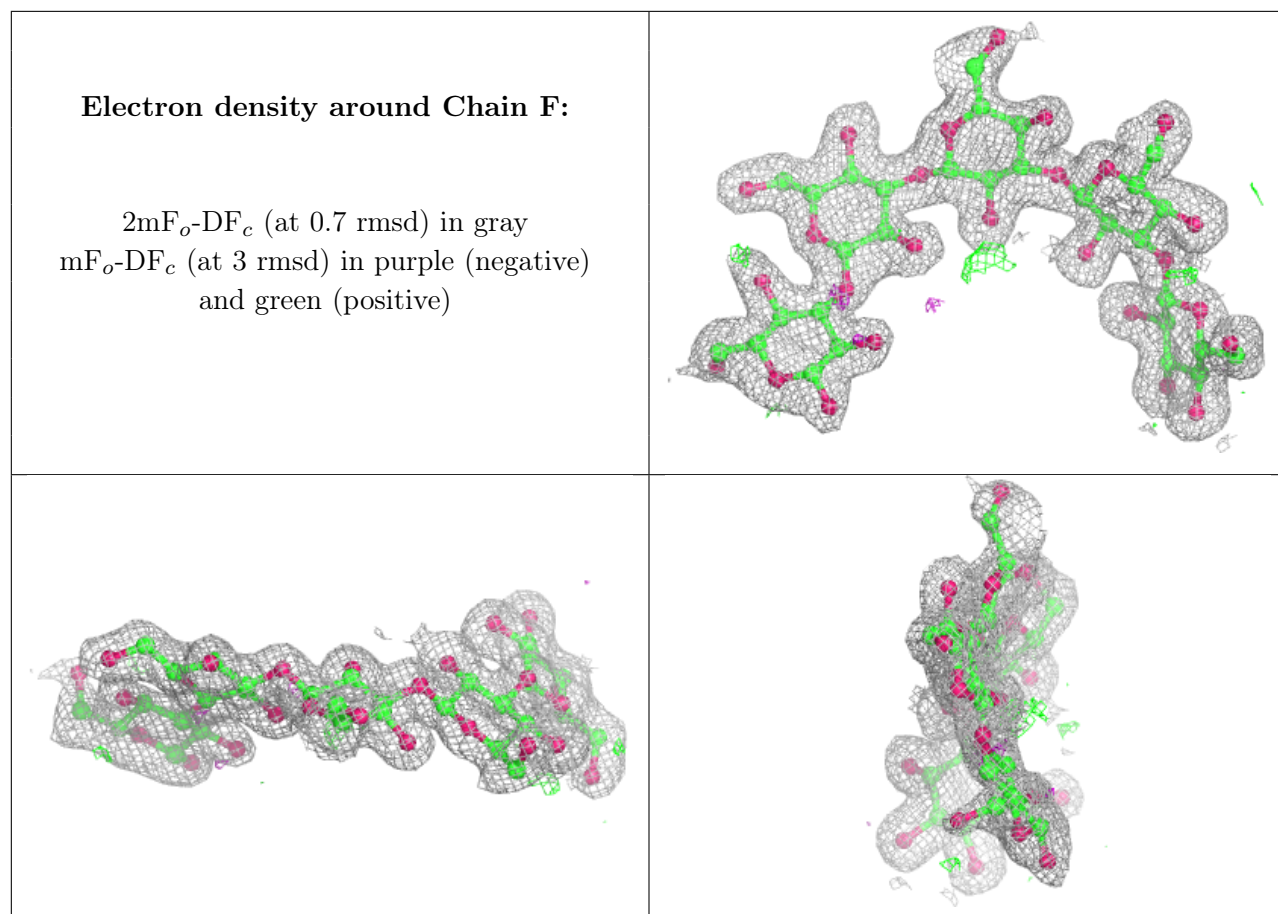




**Electron density around Chain D:**

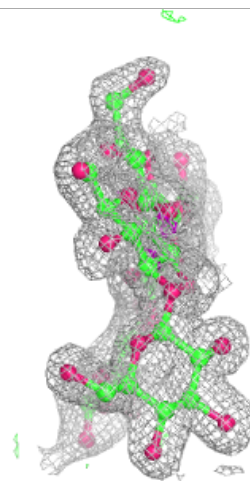
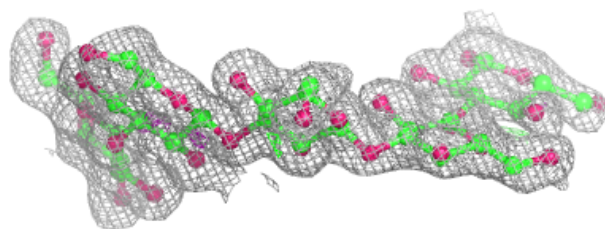
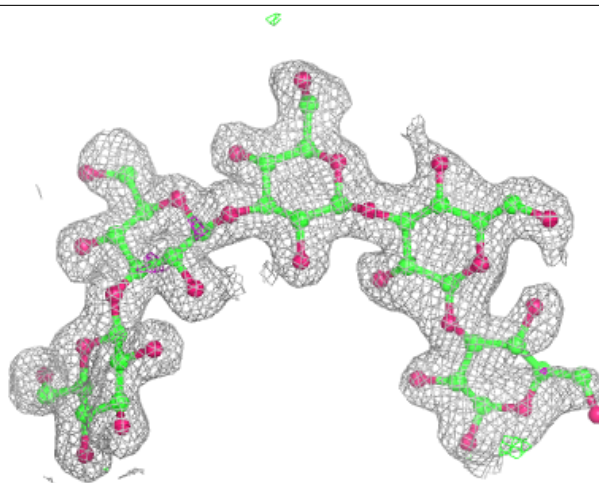
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





**Electron density around Chain D:**

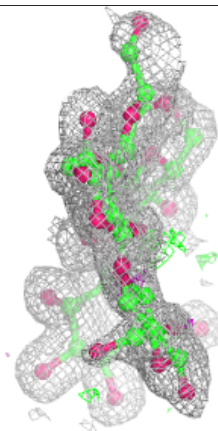
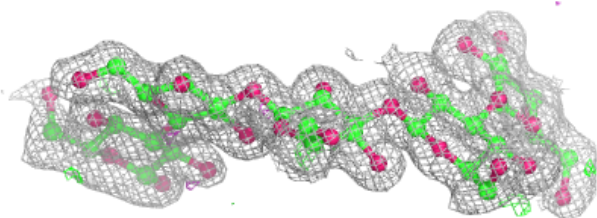
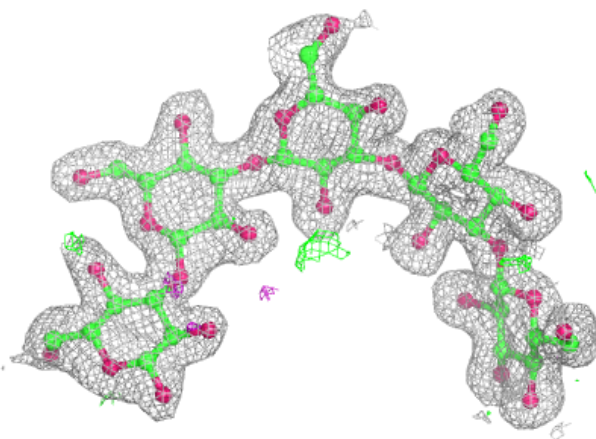
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





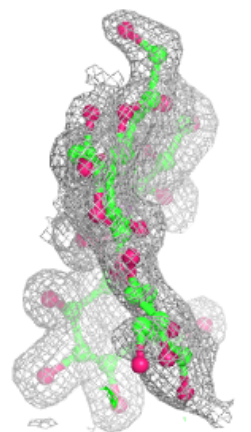
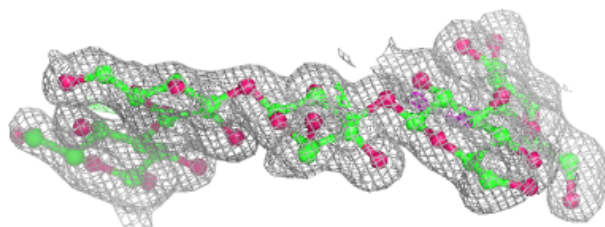
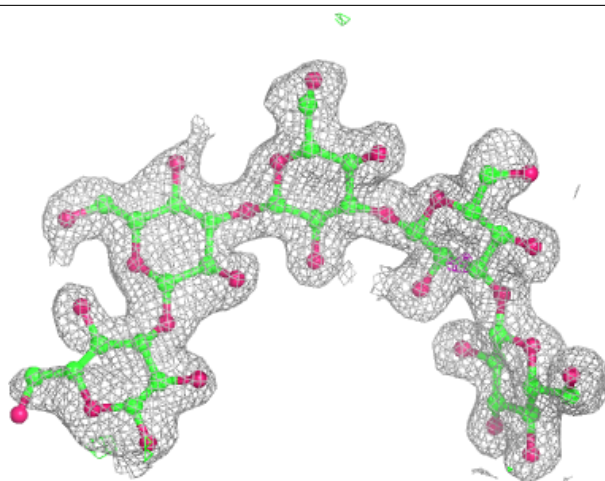
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



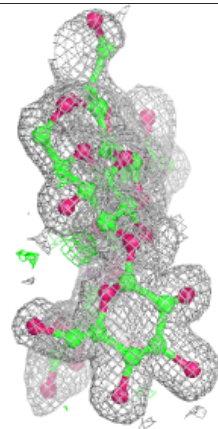
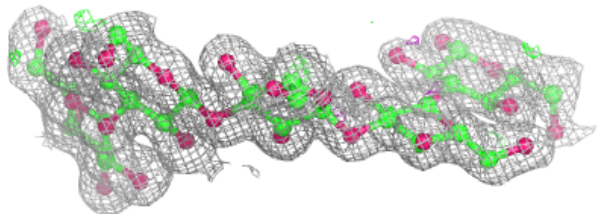
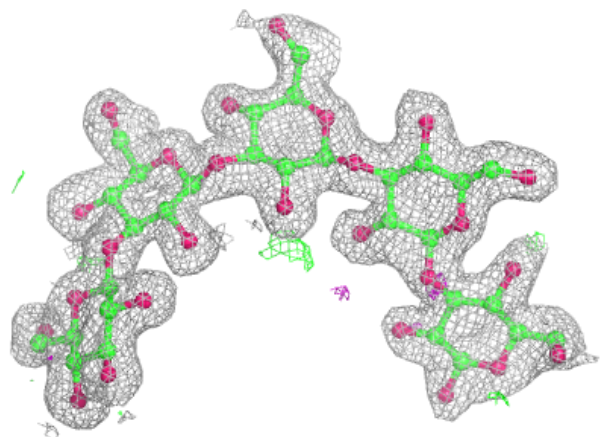
**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



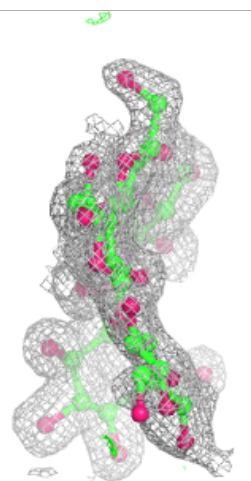
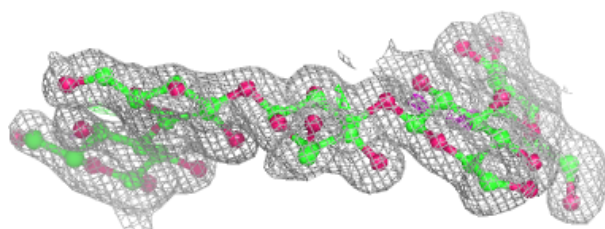
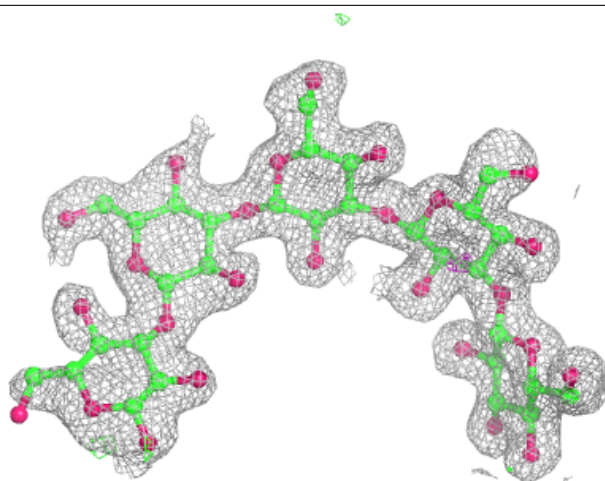
**Electron density around Chain F:**

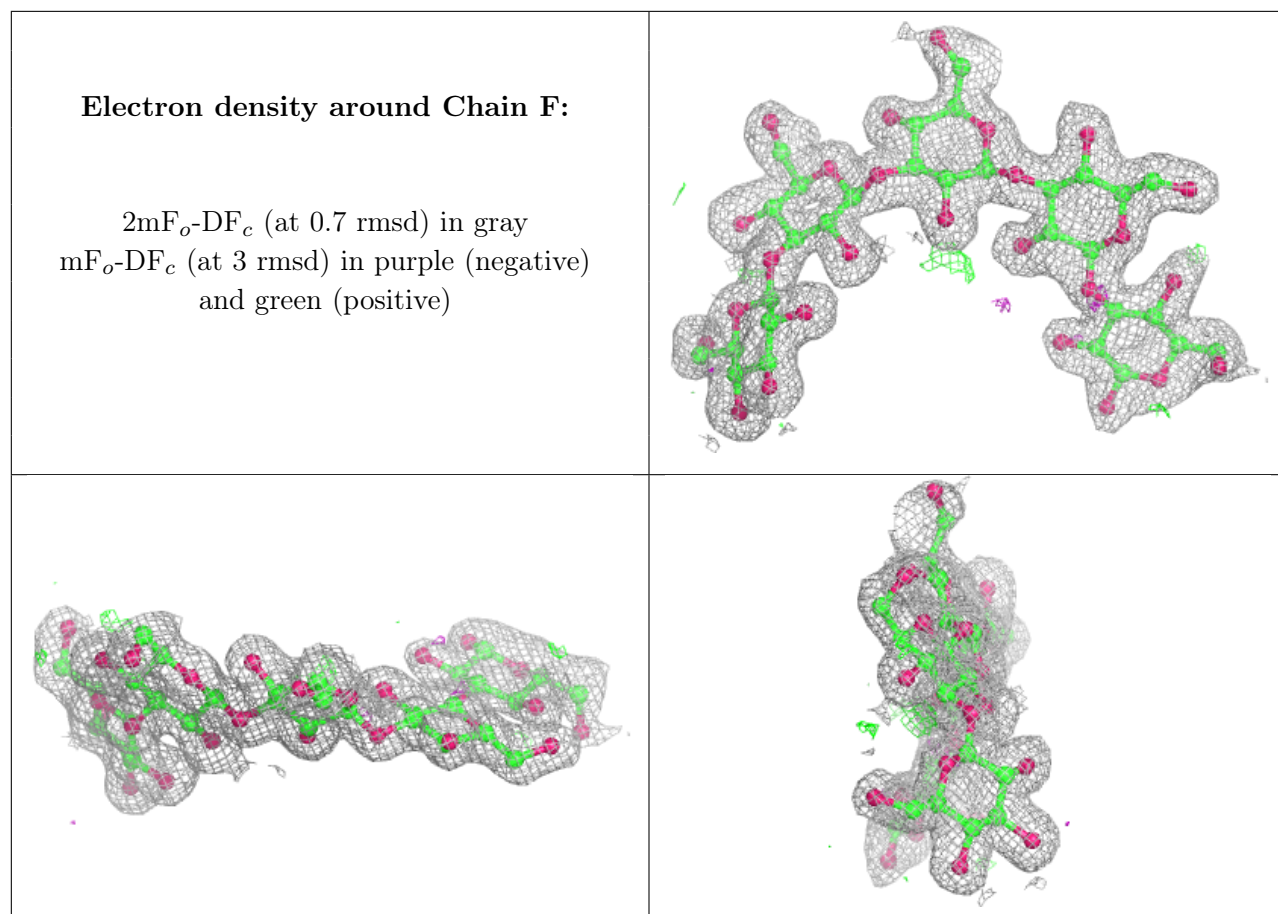
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

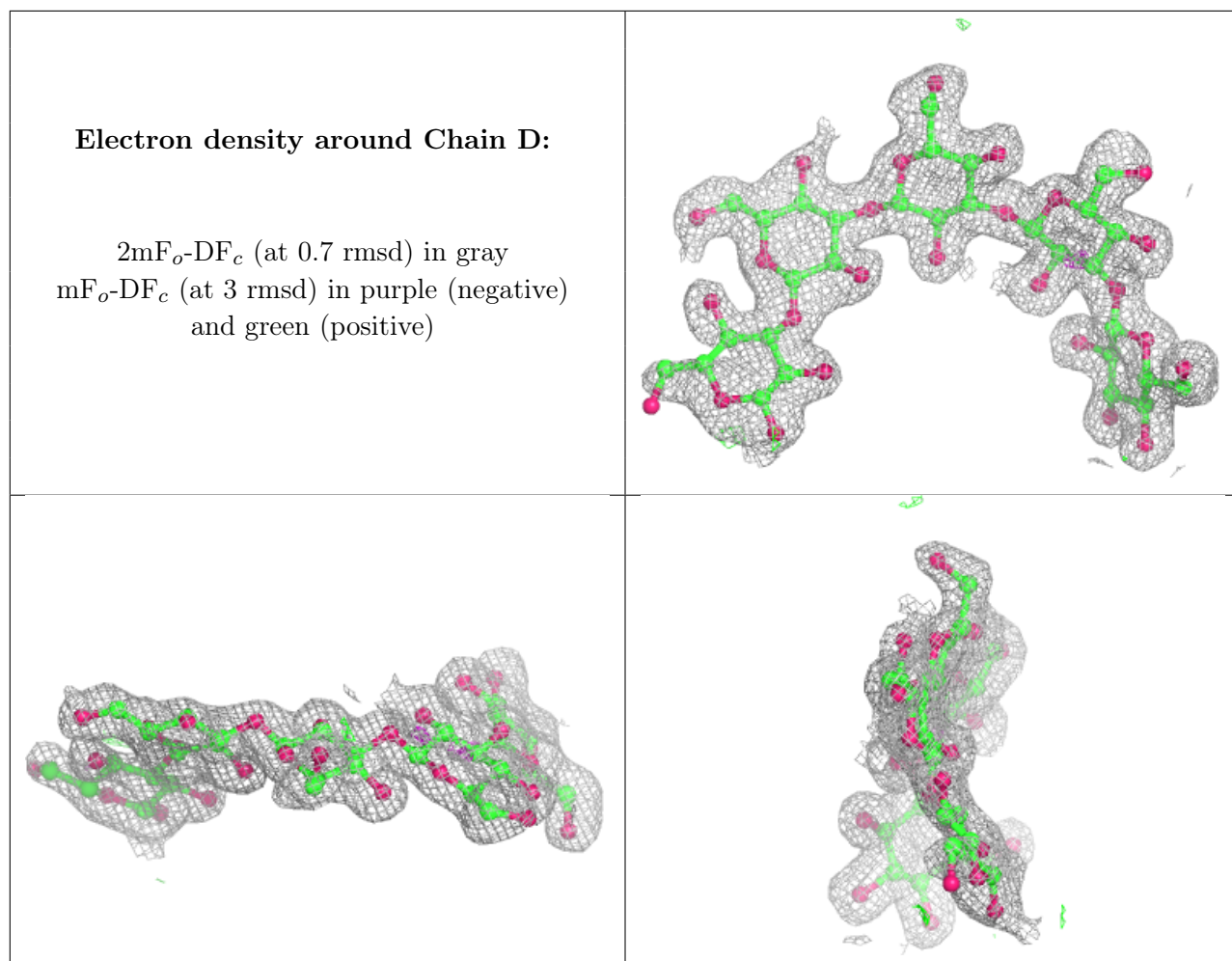


**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

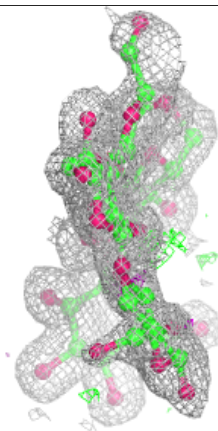
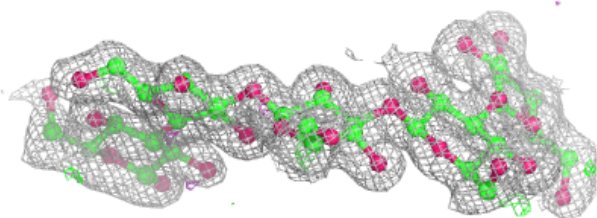
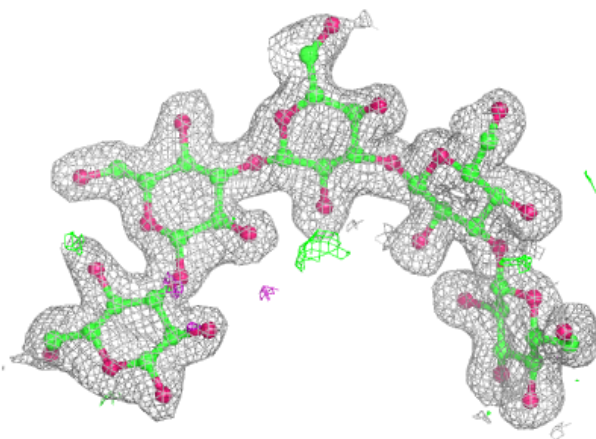






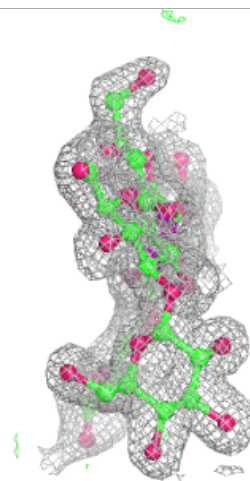
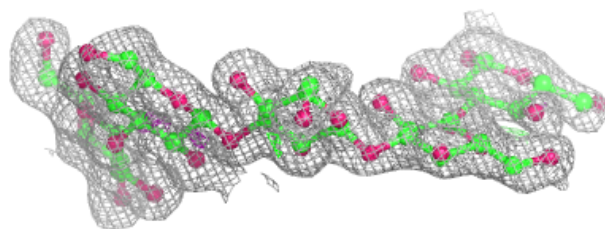
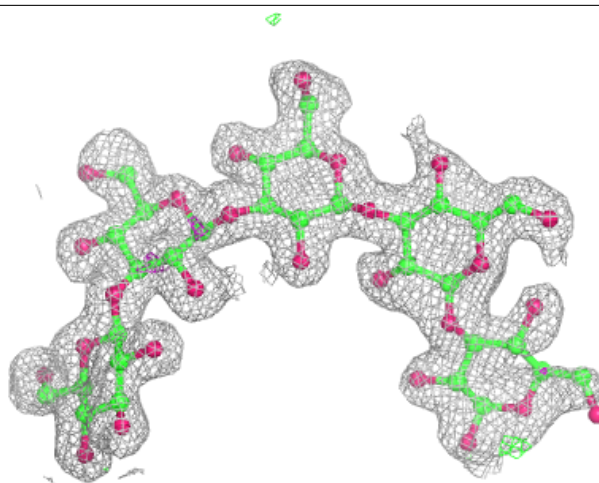
**Electron density around Chain F:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

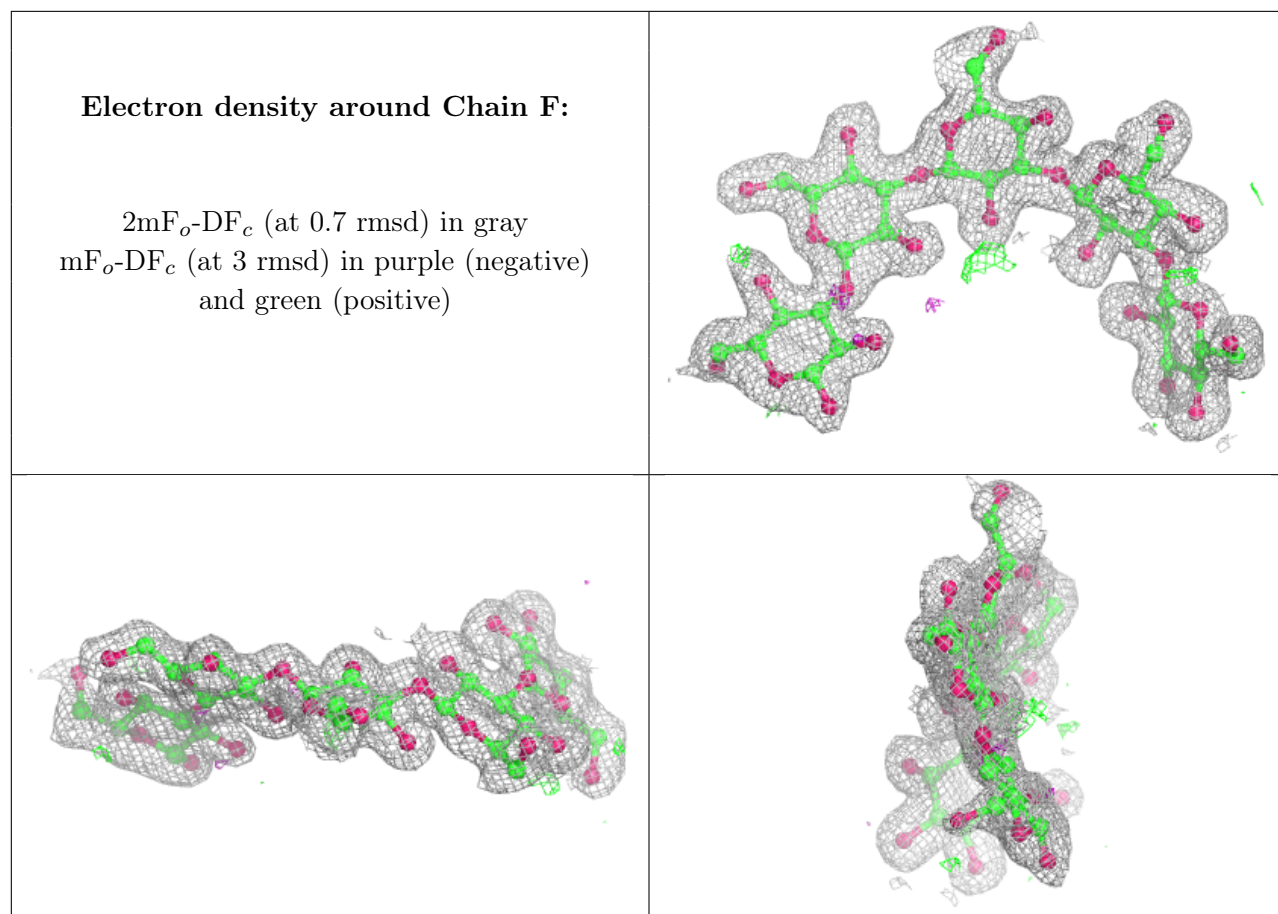


**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

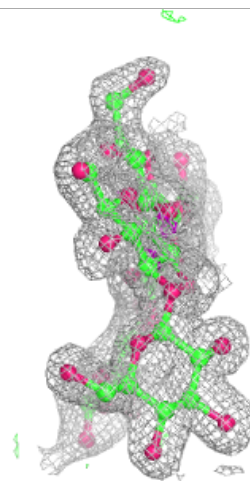
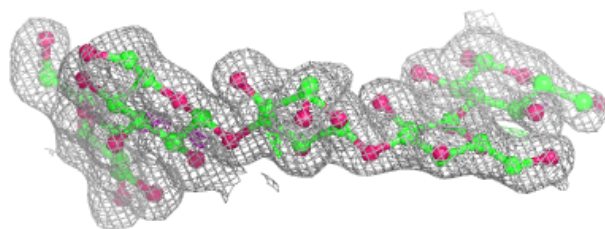
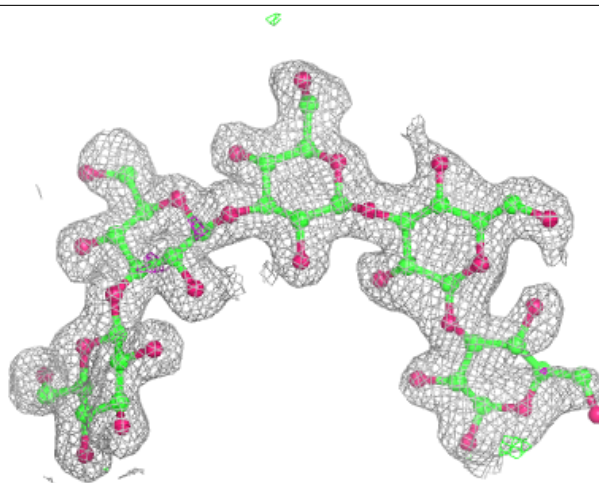


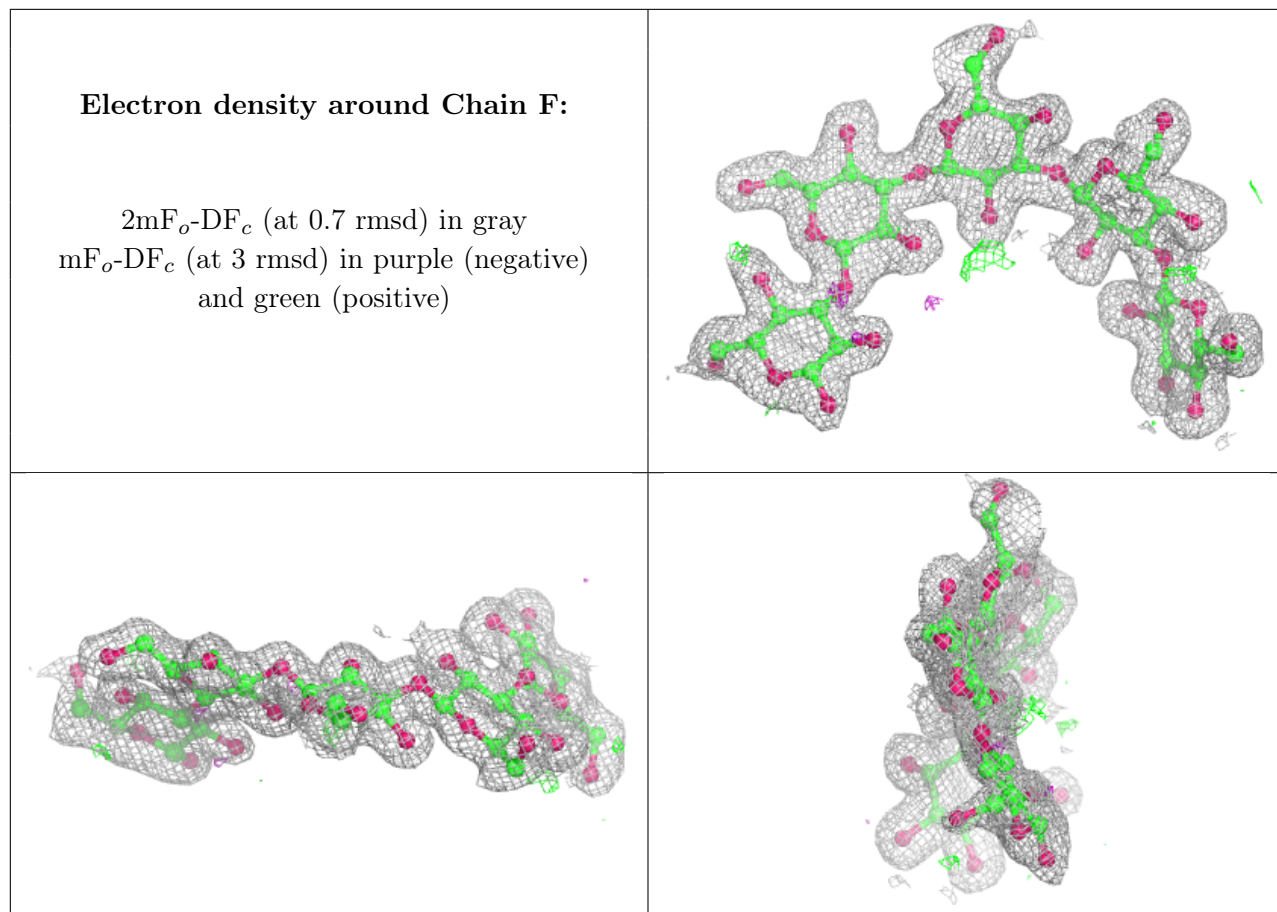




**Electron density around Chain D:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
4	EDO	1-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	2-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	3-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	4-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	5-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	6-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	7-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	8-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	9-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	10-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	11-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	12-B	701	4/4	0.93	0.11	13,21,21,22	10

*Continued on next page...*

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
4	EDO	13-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	14-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	15-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	16-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	17-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	18-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	19-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	20-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	21-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	22-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	23-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	24-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	25-B	701	4/4	0.93	0.11	13,21,21,22	10
4	EDO	1-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	2-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	3-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	4-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	5-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	6-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	7-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	8-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	9-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	10-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	11-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	12-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	13-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	14-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	15-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	16-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	17-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	18-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	19-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	20-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	21-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	22-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	23-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	24-A	701	4/4	0.98	0.07	13,13,19,19	10
4	EDO	25-A	701	4/4	0.98	0.07	13,13,19,19	10

## 6.5 Other polymers [i](#)

There are no such residues in this entry.