



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 01:16 AM UTC

PDB ID : 6WET / pdb_00006wet
Title : Crystal structures of human E-NPP 1: apo
Authors : Peat, T.S.; Dennis, M.; Newman, J.
Deposited on : 2020-04-02
Resolution : 2.60 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

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>.

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

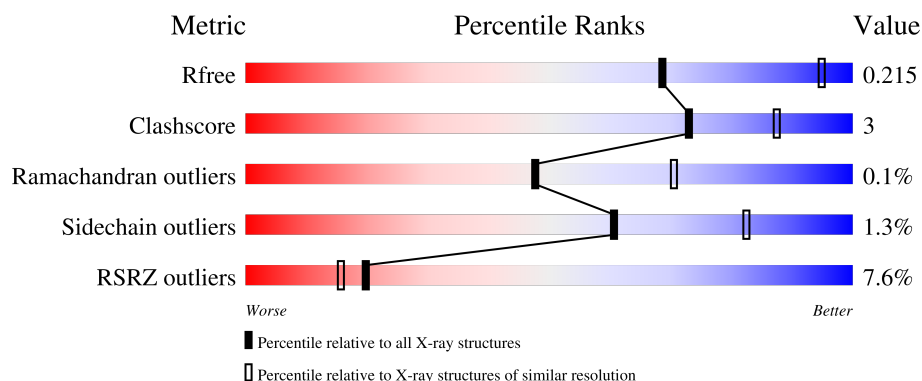
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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.



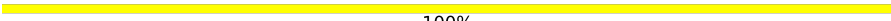
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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 ≥ 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	AaA	925	<div> <div>3%</div> <div>82%</div> <div>6%</div> <div>12%</div> </div>
1	BaB	925	<div> <div>10%</div> <div>78%</div> <div>8%</div> <div>14%</div> </div>
2	AcA	3	<div> <div>100%</div> </div>
2	BbB	3	<div> <div>100%</div> </div>
3	AfA	3	<div> <div>100%</div> </div>

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Mol	Chain	Length	Quality of chain
4	BeB	2	 100%

2 Entry composition [i](#)

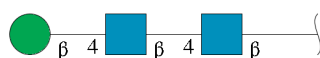
There are 8 unique types of molecules in this entry. The entry contains 12977 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Ectonucleotide pyrophosphatase/phosphodiesterase family member 1.

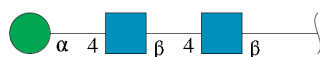
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	AaA	814	Total	C	N	O	P	S	0	2	0
			6536	4168	1103	1215	1	49			
1	BaB	795	Total	C	N	O	P	S	0	0	0
			6132	3904	1039	1142	1	46			

- Molecule 2 is an oligosaccharide called beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	AcA	3	Total	C	N	O	0	0	0
			39	22	2	15			
2	BbB	3	Total	C	N	O	0	0	0
			39	22	2	15			

- Molecule 3 is an oligosaccharide called alpha-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	AfA	3	Total	C	N	O	0	0	0
			39	22	2	15			

- Molecule 4 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.

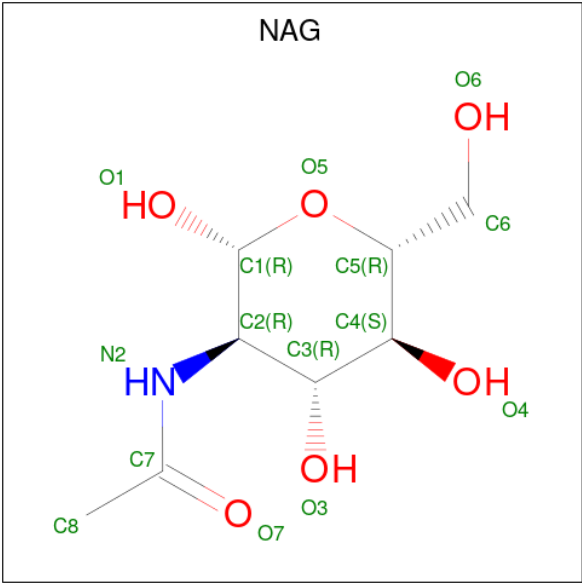


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	BeB	2	Total	C	N	O	0	0	0
			28	16	2	10			

- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	AaA	1	Total	Zn	0	0
			1	1		
5	BaB	1	Total	Zn	0	0
			1	1		

- Molecule 6 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: C₈H₁₅NO₆).



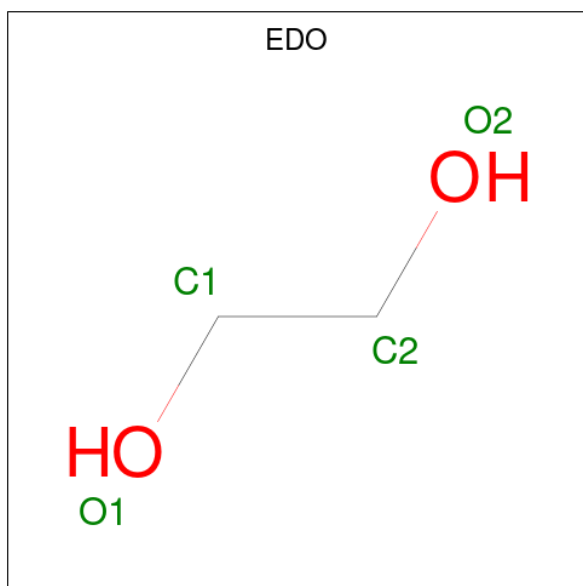
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	AaA	1	Total	C	N	O	0	0
			14	8	1	5		
6	AaA	1	Total	C	N	O	0	0
			14	8	1	5		
6	AaA	1	Total	C	N	O	0	0
			14	8	1	5		
6	BaB	1	Total	C	N	O	0	0
			14	8	1	5		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	BaB	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 7 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	AaA	1	Total	C	O	0	0
			4	2	2		
7	AaA	1	Total	C	O	0	0
			4	2	2		
7	AaA	1	Total	C	O	0	0
			4	2	2		
7	AaA	1	Total	C	O	0	0
			4	2	2		
7	BaB	1	Total	C	O	0	0
			4	2	2		

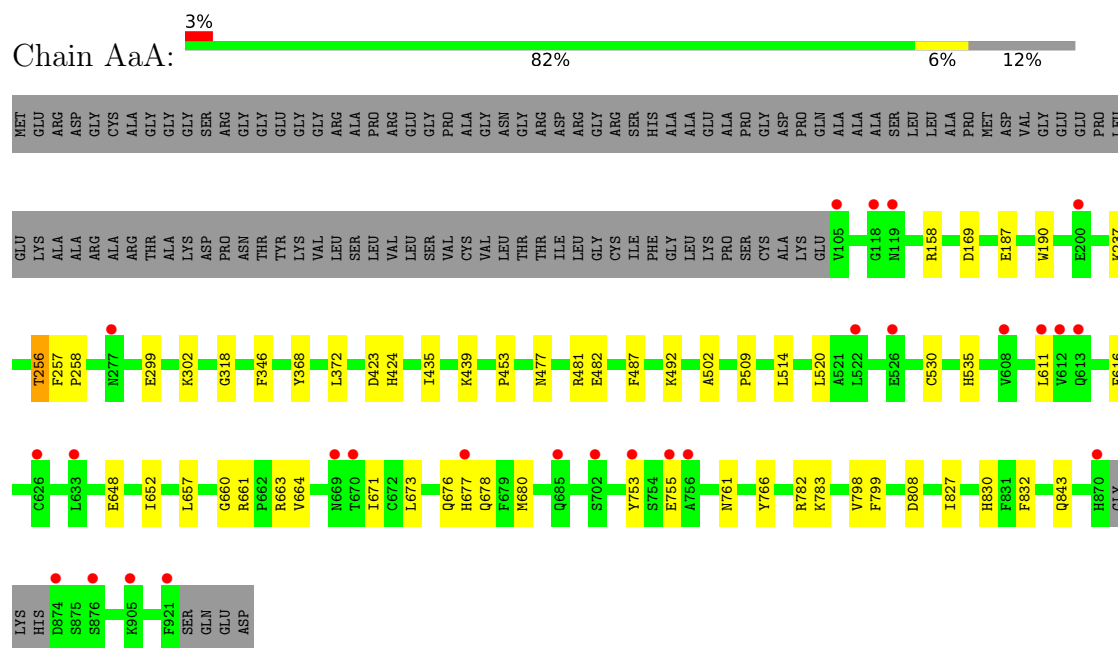
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	AaA	50	Total	O	0	0
			50	50		
8	BaB	22	Total	O	0	0
			22	22		

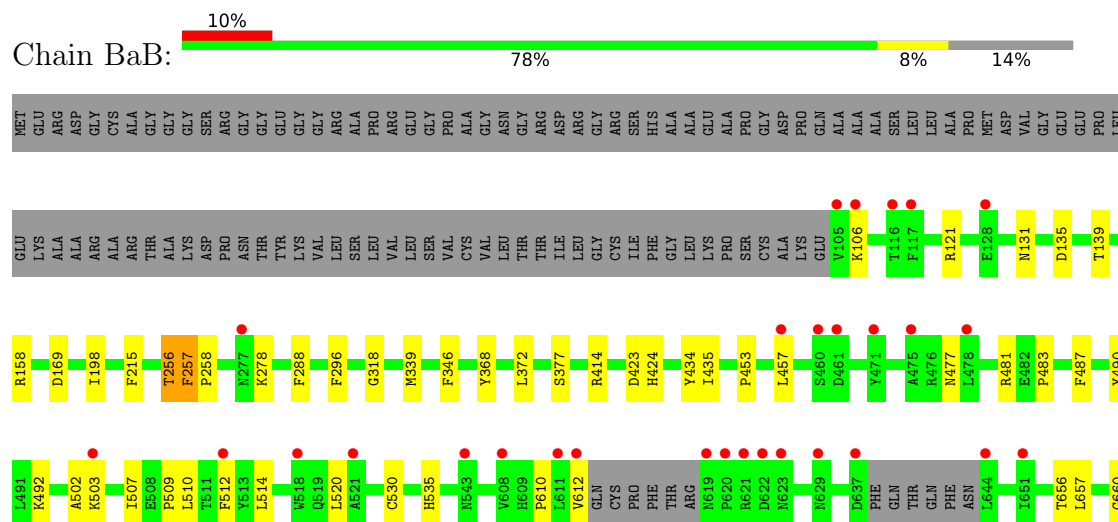
3 Residue-property plots

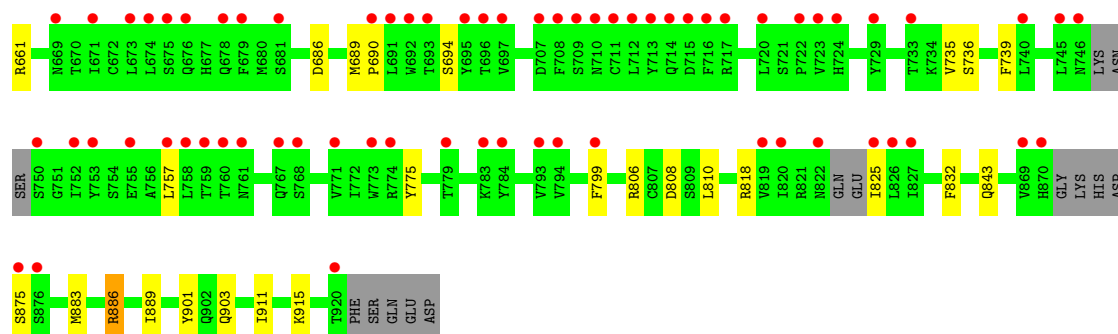
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Ectonucleotide pyrophosphatase/phosphodiesterase family member 1



- Molecule 1: Ectonucleotide pyrophosphatase/phosphodiesterase family member 1





- Molecule 2: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain AcA: 100%



- Molecule 2: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain BbB: 100%



- Molecule 3: alpha-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain AfA: 100%



- Molecule 4: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain BeB: 100%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	83.11Å 158.88Å 209.83Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.40 – 2.60 44.40 – 2.60	Depositor EDS
% Data completeness (in resolution range)	100.0 (44.40-2.60) 100.0 (44.40-2.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.51 (at 2.61Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.210 , 0.244 (Not available) , 0.215	Depositor DCC
R_{free} test set	4461 reflections (5.18%)	wwPDB-VP
Wilson B-factor (Å ²)	60.9	Xtriage
Anisotropy	0.040	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 37.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	12977	wwPDB-VP
Average B, all atoms (Å ²)	76.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.52% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: EDO, BMA, TPO, ZN, MAN, NAG

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	AaA	0.96	0/6707	1.31	1/9105 (0.0%)
1	BaB	0.99	0/6290	1.32	0/8560
All	All	0.98	0/12997	1.32	1/17665 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AaA	660	GLY	CA-C-O	-5.02	118.76	122.23

There are no chirality outliers.

There are no planarity outliers.

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	AaA	6536	0	6268	34	0
1	BaB	6132	0	5643	45	0
2	AcA	39	0	34	0	0
2	BbB	39	0	34	0	0
3	AfA	39	0	34	0	0
4	BeB	28	0	25	0	0
5	AaA	1	0	0	0	0
5	BaB	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	AaA	42	0	39	0	0
6	BaB	28	0	26	0	0
7	AaA	16	0	24	0	0
7	BaB	4	0	6	0	0
8	AaA	50	0	0	0	0
8	BaB	22	0	0	0	0
All	All	12977	0	12133	79	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

All (79) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AaA:256:TPO:O2P	1:AaA:535:HIS:CE1	2.41	0.73
1:AaA:673:LEU:HD22	1:AaA:680:MET:HE3	1.74	0.70
1:BaB:775:TYR:CE2	1:BaB:875:SER:HB2	2.30	0.66
1:BaB:158:ARG:NH2	1:BaB:169:ASP:OD1	2.30	0.64
1:AaA:158:ARG:NH2	1:AaA:169:ASP:OD1	2.30	0.64
1:AaA:299:GLU:O	1:AaA:302:LYS:NZ	2.29	0.63
1:BaB:256:TPO:HG22	1:BaB:423:ASP:OD2	2.01	0.61
1:BaB:492:LYS:HD3	1:BaB:509:PRO:HA	1.82	0.61
1:BaB:477:ASN:O	1:BaB:481:ARG:NH1	2.36	0.59
1:BaB:435:ILE:HD13	1:BaB:487:PHE:CD1	2.37	0.58
1:BaB:739:PHE:HE2	1:BaB:757:LEU:HA	1.68	0.57
1:BaB:818:ARG:O	1:BaB:825:ILE:HG22	2.04	0.56
1:BaB:492:LYS:HD2	1:BaB:507:ILE:O	2.07	0.55
1:BaB:457:LEU:HD23	1:BaB:512:PHE:CZ	2.42	0.55
1:AaA:678:GLN:HB2	1:AaA:753:TYR:CE2	2.42	0.54
1:BaB:457:LEU:HD21	1:BaB:510:LEU:HD23	1.89	0.54
1:AaA:492:LYS:HD2	1:AaA:509:PRO:HA	1.89	0.54
1:AaA:435:ILE:HD13	1:AaA:487:PHE:CD1	2.43	0.53
1:BaB:799:PHE:O	1:BaB:808:ASP:OD1	2.27	0.53
1:AaA:652:ILE:HD12	1:AaA:677:HIS:O	2.09	0.53
1:AaA:799:PHE:O	1:AaA:808:ASP:OD1	2.27	0.53
1:AaA:318:GLY:O	1:AaA:368:TYR:HA	2.09	0.52
1:AaA:492:LYS:HE2	1:AaA:502:ALA:O	2.09	0.52
1:AaA:611:LEU:HD21	1:AaA:673:LEU:HG	1.91	0.52
1:BaB:911:ILE:HG22	1:BaB:915:LYS:HE2	1.92	0.52
1:BaB:318:GLY:O	1:BaB:368:TYR:HA	2.10	0.51
1:AaA:798:VAL:HB	1:AaA:830:HIS:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BaB:735:VAL:HG12	1:BaB:736:SER:N	2.26	0.51
1:BaB:457:LEU:HD11	1:BaB:510:LEU:HD23	1.92	0.51
1:BaB:135:ASP:O	1:BaB:139:THR:HG23	2.12	0.50
1:BaB:689:MET:HG2	1:BaB:690:PRO:HD2	1.93	0.49
1:BaB:514:LEU:HD21	1:BaB:520:LEU:HB2	1.93	0.49
1:BaB:121:ARG:HD2	1:BaB:131:ASN:HD21	1.77	0.49
1:BaB:660:GLY:HA2	1:BaB:903:GLN:OE1	2.13	0.49
1:AaA:514:LEU:HD21	1:AaA:520:LEU:HB2	1.94	0.48
1:BaB:278:LYS:HA	1:BaB:288:PHE:O	2.13	0.48
1:BaB:656:THR:CG2	1:BaB:694:SER:O	2.61	0.47
1:BaB:457:LEU:C	1:BaB:457:LEU:HD12	2.38	0.47
1:BaB:457:LEU:HD12	1:BaB:457:LEU:O	2.14	0.47
1:AaA:423:ASP:CG	1:AaA:424:HIS:CD2	2.94	0.46
1:BaB:657:LEU:HD13	1:BaB:661:ARG:HB3	1.97	0.46
1:BaB:660:GLY:HA2	1:BaB:903:GLN:CD	2.41	0.46
1:BaB:883:MET:O	1:BaB:886:ARG:HD2	2.16	0.46
1:AaA:657:LEU:HD13	1:AaA:661:ARG:HB3	1.98	0.45
1:AaA:256:TPO:HG22	1:AaA:423:ASP:OD2	2.17	0.45
1:BaB:457:LEU:HD23	1:BaB:512:PHE:HZ	1.79	0.45
1:BaB:423:ASP:CG	1:BaB:424:HIS:CD2	2.95	0.44
1:AaA:257:PHE:N	1:AaA:258:PRO:CD	2.80	0.44
1:BaB:198:ILE:HD13	1:BaB:414:ARG:HA	1.98	0.44
1:AaA:190:TRP:CH2	1:AaA:237[B]:LYS:HG2	2.53	0.44
1:AaA:346:PHE:CD1	1:AaA:372:LEU:HD22	2.52	0.44
1:AaA:648:GLU:O	1:AaA:652:ILE:HG12	2.17	0.44
1:BaB:296:PHE:CZ	1:BaB:339:MET:HE1	2.52	0.44
1:BaB:453:PRO:HA	1:BaB:514:LEU:HD22	1.99	0.44
1:BaB:346:PHE:CD1	1:BaB:372:LEU:HD22	2.53	0.43
1:BaB:106:LYS:HG3	1:BaB:106:LYS:O	2.18	0.43
1:AaA:453:PRO:HA	1:AaA:514:LEU:HD22	1.99	0.43
1:BaB:435:ILE:HD13	1:BaB:487:PHE:HD1	1.82	0.43
1:AaA:832:PHE:CD1	1:AaA:832:PHE:C	2.97	0.43
1:AaA:753:TYR:CZ	1:AaA:755:GLU:HB2	2.53	0.42
1:BaB:257:PHE:N	1:BaB:258:PRO:CD	2.82	0.42
1:BaB:889:ILE:HD13	1:BaB:901:TYR:HE2	1.84	0.42
1:AaA:520:LEU:C	1:AaA:520:LEU:HD23	2.44	0.42
1:AaA:761:ASN:CG	1:AaA:761:ASN:O	2.59	0.42
1:BaB:686:ASP:CB	1:BaB:810:LEU:HD11	2.49	0.42
1:AaA:492:LYS:CD	1:AaA:509:PRO:HA	2.50	0.42
1:AaA:187:GLU:HA	1:AaA:187:GLU:OE1	2.19	0.42
1:BaB:520:LEU:C	1:BaB:520:LEU:HD23	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AaA:477:ASN:O	1:AaA:481:ARG:NH1	2.51	0.42
1:AaA:616:PHE:CD1	1:AaA:616:PHE:C	2.98	0.42
1:AaA:766:TYR:CZ	1:AaA:827:ILE:HG21	2.56	0.41
1:BaB:256:TPO:O1P	1:BaB:535:HIS:HE1	1.83	0.41
1:BaB:490:TYR:O	1:BaB:510:LEU:HD12	2.20	0.41
1:BaB:832:PHE:CD1	1:BaB:832:PHE:C	2.99	0.41
1:BaB:825:ILE:HD12	1:BaB:825:ILE:HA	1.95	0.41
1:AaA:439:LYS:NZ	1:AaA:482:GLU:OE2	2.54	0.41
1:AaA:782:ARG:HH21	1:AaA:783:LYS:HE3	1.86	0.40
1:BaB:492:LYS:HE3	1:BaB:502:ALA:O	2.22	0.40
1:AaA:664:VAL:HG21	1:AaA:671:ILE:HG13	2.04	0.40

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	AaA	811/925 (88%)	775 (96%)	36 (4%)	0	100	100
1	BaB	782/925 (84%)	741 (95%)	39 (5%)	2 (0%)	36	58
All	All	1593/1850 (86%)	1516 (95%)	75 (5%)	2 (0%)	48	70

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	BaB	610	PRO
1	BaB	483	PRO

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	AaA	403/823 (49%)	399 (99%)	4 (1%)	68	86
1	BaB	643/823 (78%)	633 (98%)	10 (2%)	55	79
All	All	1046/1646 (64%)	1032 (99%)	14 (1%)	61	82

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AaA	530	CYS
1	AaA	663	ARG
1	AaA	676	GLN
1	AaA	843	GLN
1	BaB	215	PHE
1	BaB	257	PHE
1	BaB	377	SER
1	BaB	434	TYR
1	BaB	503	LYS
1	BaB	530	CYS
1	BaB	612	VAL
1	BaB	806	ARG
1	BaB	843	GLN
1	BaB	886	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues 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
1	TPO	AaA	256	1	8,10,11	1.82	1 (12%)	10,14,16	1.18	1 (10%)
1	TPO	BaB	256	1,5	8,10,11	1.77	1 (12%)	10,14,16	1.22	1 (10%)

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
1	TPO	AaA	256	1	-	1/9/11/13	-
1	TPO	BaB	256	1,5	-	3/9/11/13	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AaA	256	TPO	P-OG1	4.88	1.68	1.59
1	BaB	256	TPO	P-OG1	4.78	1.67	1.59

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AaA	256	TPO	O-C-CA	-3.18	116.59	124.77
1	BaB	256	TPO	O-C-CA	-3.06	116.90	124.77

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	BaB	256	TPO	CB-OG1-P-O2P
1	AaA	256	TPO	O-C-CA-CB
1	BaB	256	TPO	O-C-CA-CB
1	BaB	256	TPO	N-CA-CB-CG2

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	AaA	256	TPO	2	0
1	BaB	256	TPO	2	0

5.5 Carbohydrates [i](#)

11 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	NAG	AcA	1	1,2	14,14,15	0.78	0	17,19,21	1.21	2 (11%)
2	NAG	AcA	2	2	14,14,15	0.53	0	17,19,21	1.12	1 (5%)
2	BMA	AcA	3	2	11,11,12	0.37	0	15,15,17	0.99	1 (6%)
3	NAG	AfA	1	1,3	14,14,15	0.90	1 (7%)	17,19,21	1.85	3 (17%)
3	NAG	AfA	2	3	14,14,15	0.46	0	17,19,21	1.21	2 (11%)
3	MAN	AfA	3	3	11,11,12	0.54	0	15,15,17	1.51	3 (20%)
2	NAG	BbB	1	1,2	14,14,15	0.46	0	17,19,21	1.65	4 (23%)
2	NAG	BbB	2	2	14,14,15	0.40	0	17,19,21	1.18	1 (5%)
2	BMA	BbB	3	2	11,11,12	0.29	0	15,15,17	0.95	1 (6%)
4	NAG	BeB	1	1,4	14,14,15	0.54	0	17,19,21	1.43	3 (17%)
4	NAG	BeB	2	4	14,14,15	0.54	0	17,19,21	1.07	2 (11%)

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	NAG	AcA	1	1,2	-	2/6/23/26	0/1/1/1
2	NAG	AcA	2	2	-	0/6/23/26	0/1/1/1
2	BMA	AcA	3	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAG	AfA	1	1,3	-	5/6/23/26	0/1/1/1
3	NAG	AfA	2	3	-	2/6/23/26	0/1/1/1
3	MAN	AfA	3	3	-	2/2/19/22	0/1/1/1
2	NAG	BbB	1	1,2	-	4/6/23/26	0/1/1/1
2	NAG	BbB	2	2	-	0/6/23/26	0/1/1/1
2	BMA	BbB	3	2	-	0/2/19/22	0/1/1/1
4	NAG	BeB	1	1,4	-	2/6/23/26	0/1/1/1
4	NAG	BeB	2	4	-	0/6/23/26	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AfA	1	NAG	C1-C2	2.59	1.55	1.52

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AfA	1	NAG	C8-C7-N2	-5.02	107.79	116.12
3	AfA	3	MAN	C1-C2-C3	4.36	115.99	109.64
2	BbB	1	NAG	O5-C1-C2	-4.03	105.06	111.29
3	AfA	1	NAG	O7-C7-N2	3.91	128.89	121.98
2	AcA	1	NAG	C3-C4-C5	3.54	116.65	110.23
3	AfA	2	NAG	C1-O5-C5	3.07	116.30	112.19
3	AfA	1	NAG	O5-C1-C2	-2.98	106.67	111.29
4	BeB	1	NAG	C8-C7-N2	2.84	120.83	116.12
2	BbB	1	NAG	C1-C2-N2	2.82	114.88	110.43
2	BbB	2	NAG	C1-O5-C5	2.76	115.89	112.19
2	AcA	3	BMA	C1-C2-C3	2.57	113.39	109.64
2	BbB	1	NAG	C3-C4-C5	2.44	114.65	110.23
4	BeB	1	NAG	C1-O5-C5	2.26	115.22	112.19
2	BbB	1	NAG	C4-C3-C2	2.24	114.30	111.02
2	AcA	2	NAG	O7-C7-C8	-2.23	118.09	122.05
3	AfA	2	NAG	O5-C5-C4	-2.18	105.52	110.83
2	BbB	3	BMA	C1-C2-C3	2.18	112.81	109.64
3	AfA	3	MAN	C2-C3-C4	2.17	114.67	110.86
4	BeB	1	NAG	C2-N2-C7	-2.15	120.02	122.90
3	AfA	3	MAN	O5-C5-C4	-2.14	105.61	110.83
2	AcA	1	NAG	O5-C1-C2	-2.06	108.10	111.29
4	BeB	2	NAG	C1-O5-C5	2.06	114.95	112.19
4	BeB	2	NAG	C1-C2-N2	2.01	113.61	110.43

There are no chirality outliers.

All (17) torsion outliers are listed below:

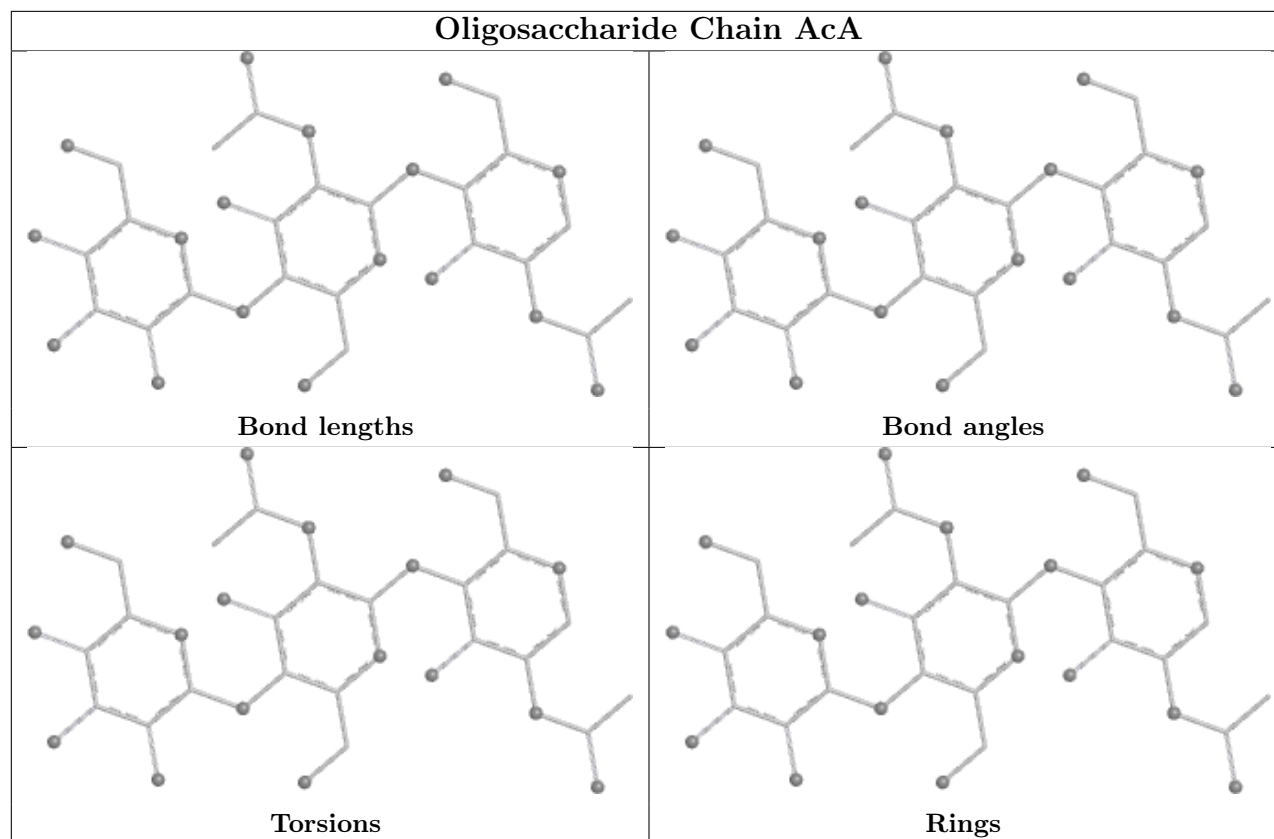
Mol	Chain	Res	Type	Atoms
4	BeB	1	NAG	C8-C7-N2-C2
4	BeB	1	NAG	O7-C7-N2-C2
3	AfA	3	MAN	C4-C5-C6-O6
3	AfA	3	MAN	O5-C5-C6-O6
3	AfA	1	NAG	C8-C7-N2-C2
3	AfA	2	NAG	O5-C5-C6-O6
3	AfA	2	NAG	C4-C5-C6-O6
2	AcA	1	NAG	O5-C5-C6-O6
2	BbB	1	NAG	O5-C5-C6-O6
2	BbB	1	NAG	C8-C7-N2-C2
2	BbB	1	NAG	C4-C5-C6-O6
2	AcA	1	NAG	C4-C5-C6-O6
3	AfA	1	NAG	O7-C7-N2-C2
3	AfA	1	NAG	C1-C2-N2-C7
3	AfA	1	NAG	C4-C5-C6-O6
2	BbB	1	NAG	O7-C7-N2-C2
3	AfA	1	NAG	O5-C5-C6-O6

There are no ring outliers.

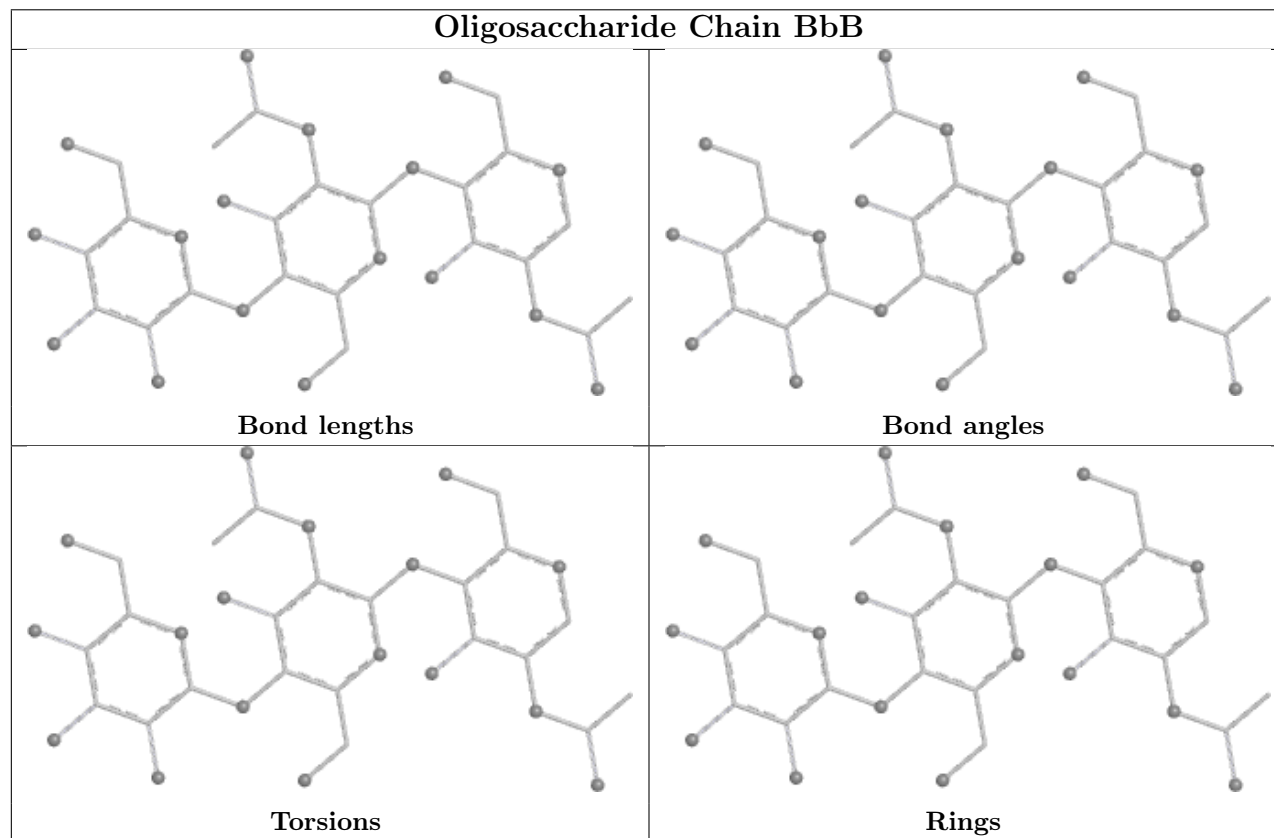
No monomer is involved in short contacts.

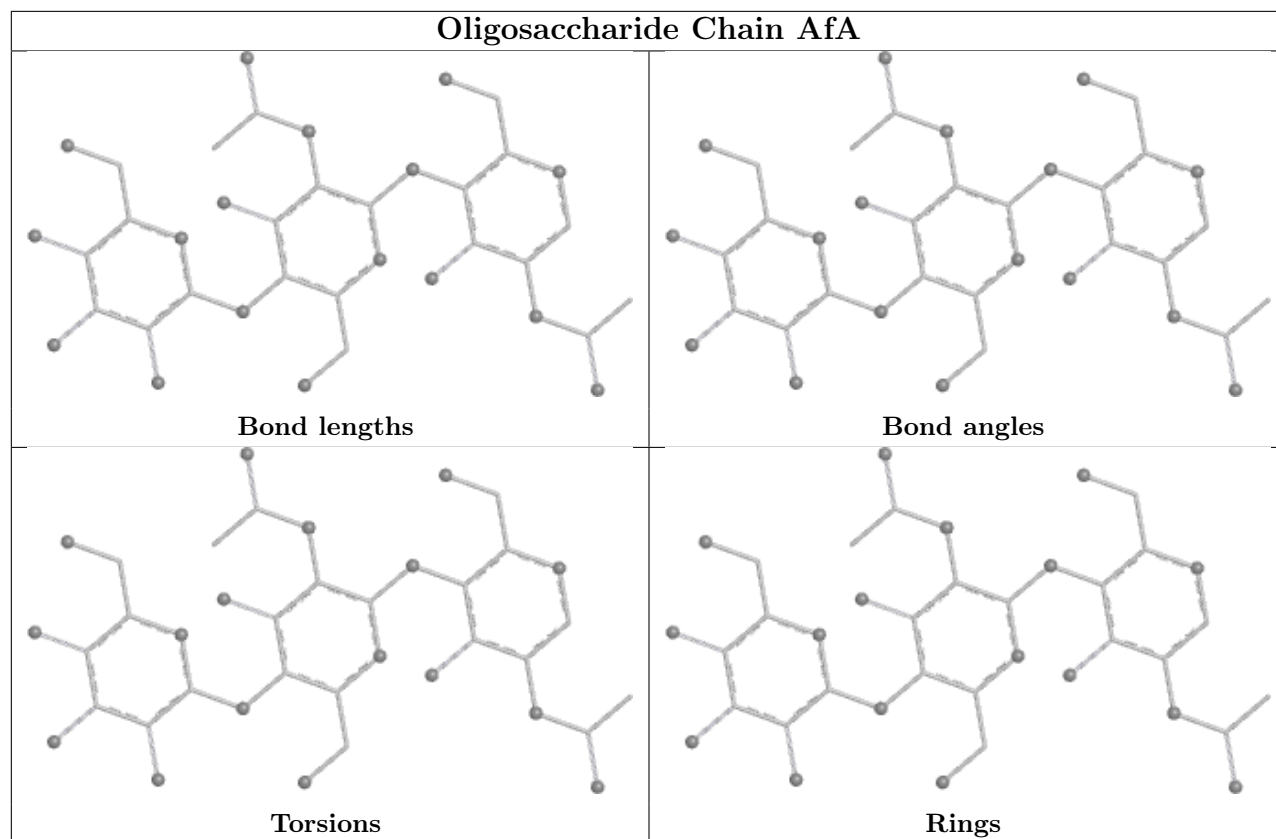
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

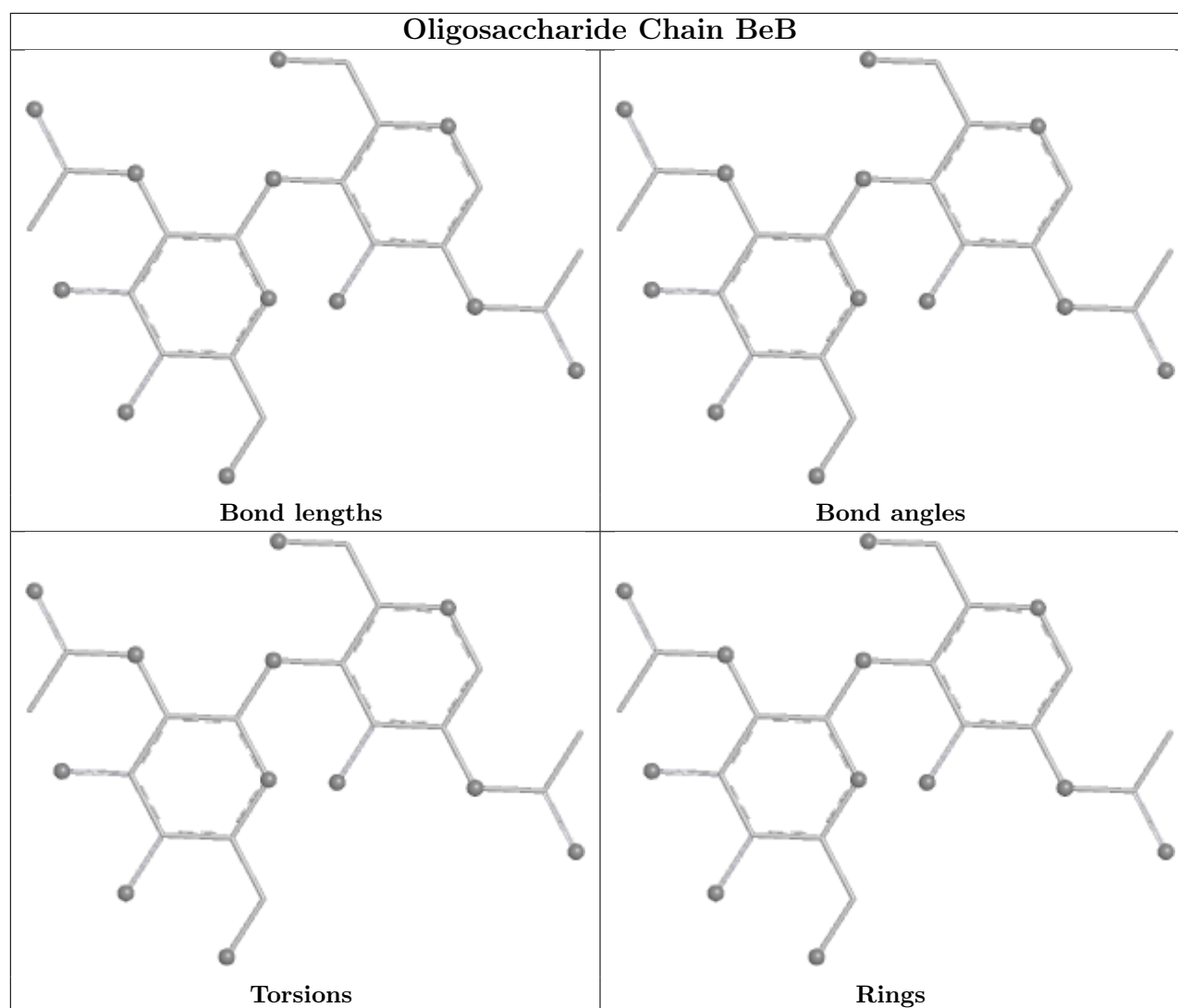
Oligosaccharide Chain AcA



Oligosaccharide Chain BbB







5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 2 are monoatomic - leaving 10 for Mogul analysis.

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	$\# Z > 2$
7	EDO	AaA	1006	-	3,3,3	0.12	0	2,2,2	0.15	0
6	NAG	AaA	1004	1	14,14,15	0.50	0	17,19,21	1.42	3 (17%)
7	EDO	AaA	1005	-	3,3,3	0.20	0	2,2,2	0.29	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	EDO	AaA	1008	-	3,3,3	0.12	0	2,2,2	0.13	0
6	NAG	BaB	1003	1	14,14,15	0.50	0	17,19,21	1.40	3 (17%)
6	NAG	AaA	1003	1	14,14,15	0.45	0	17,19,21	1.31	2 (11%)
6	NAG	BaB	1002	1	14,14,15	0.60	0	17,19,21	2.10	5 (29%)
6	NAG	AaA	1002	1	14,14,15	0.36	0	17,19,21	1.13	2 (11%)
7	EDO	AaA	1007	-	3,3,3	0.16	0	2,2,2	0.26	0
7	EDO	BaB	1004	-	3,3,3	0.12	0	2,2,2	0.27	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
7	EDO	AaA	1006	-	-	1/1/1/1	-
6	NAG	AaA	1004	1	-	6/6/23/26	0/1/1/1
7	EDO	AaA	1005	-	-	1/1/1/1	-
7	EDO	AaA	1008	-	-	1/1/1/1	-
6	NAG	BaB	1003	1	-	6/6/23/26	0/1/1/1
6	NAG	AaA	1003	1	-	3/6/23/26	0/1/1/1
6	NAG	BaB	1002	1	-	6/6/23/26	0/1/1/1
6	NAG	AaA	1002	1	-	3/6/23/26	0/1/1/1
7	EDO	AaA	1007	-	-	0/1/1/1	-
7	EDO	BaB	1004	-	-	0/1/1/1	-

There are no bond length outliers.

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	BaB	1002	NAG	O5-C1-C2	-4.80	103.87	111.29
6	BaB	1002	NAG	C4-C3-C2	4.22	117.20	111.02
6	BaB	1002	NAG	C3-C4-C5	3.76	117.06	110.23
6	AaA	1004	NAG	O7-C7-N2	2.88	127.08	121.98
6	AaA	1002	NAG	C1-C2-N2	2.84	114.91	110.43
6	BaB	1002	NAG	C8-C7-N2	-2.83	111.43	116.12
6	BaB	1003	NAG	O7-C7-N2	2.82	126.97	121.98
6	AaA	1004	NAG	C8-C7-N2	-2.77	111.53	116.12
6	AaA	1004	NAG	C2-N2-C7	2.71	126.53	122.90
6	BaB	1003	NAG	C8-C7-N2	-2.58	111.84	116.12
6	BaB	1003	NAG	C2-N2-C7	2.58	126.35	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	AaA	1002	NAG	O5-C1-C2	-2.56	107.33	111.29
6	AaA	1003	NAG	O7-C7-N2	-2.31	117.90	121.98
6	BaB	1002	NAG	O7-C7-N2	2.09	125.68	121.98
6	AaA	1003	NAG	C8-C7-N2	2.09	119.58	116.12

There are no chirality outliers.

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	AaA	1003	NAG	C8-C7-N2-C2
6	AaA	1003	NAG	O7-C7-N2-C2
6	BaB	1002	NAG	C1-C2-N2-C7
6	BaB	1003	NAG	O5-C5-C6-O6
6	BaB	1002	NAG	O5-C5-C6-O6
6	BaB	1003	NAG	C4-C5-C6-O6
6	AaA	1004	NAG	C8-C7-N2-C2
6	BaB	1002	NAG	C8-C7-N2-C2
6	BaB	1003	NAG	C8-C7-N2-C2
6	BaB	1002	NAG	C4-C5-C6-O6
6	AaA	1002	NAG	C8-C7-N2-C2
6	AaA	1004	NAG	O5-C5-C6-O6
7	AaA	1006	EDO	O1-C1-C2-O2
7	AaA	1005	EDO	O1-C1-C2-O2
6	BaB	1003	NAG	C1-C2-N2-C7
6	BaB	1003	NAG	C3-C2-N2-C7
6	AaA	1004	NAG	O7-C7-N2-C2
6	BaB	1002	NAG	O7-C7-N2-C2
6	BaB	1003	NAG	O7-C7-N2-C2
6	AaA	1004	NAG	C4-C5-C6-O6
6	AaA	1004	NAG	C1-C2-N2-C7
6	AaA	1004	NAG	C3-C2-N2-C7
6	BaB	1002	NAG	C3-C2-N2-C7
6	AaA	1002	NAG	O7-C7-N2-C2
7	AaA	1008	EDO	O1-C1-C2-O2
6	AaA	1003	NAG	C4-C5-C6-O6
6	AaA	1002	NAG	C4-C5-C6-O6

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, 95th 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 ²)	Q<0.9
1	AaA	813/925 (87%)	0.02	26 (3%)	50	44	22, 60, 109, 139	2 (0%)
1	BaB	794/925 (85%)	0.64	96 (12%)	8	6	41, 83, 147, 181	0
All	All	1607/1850 (86%)	0.33	122 (7%)	20	16	22, 68, 135, 181	2 (0%)

All (122) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BaB	678	GLN	6.4
1	BaB	746	ASN	5.9
1	BaB	870	HIS	5.5
1	BaB	637	ASP	5.4
1	BaB	105	VAL	5.1
1	BaB	724	HIS	5.0
1	BaB	753	TYR	4.9
1	AaA	105	VAL	4.8
1	BaB	612	VAL	4.4
1	BaB	696	THR	4.3
1	BaB	827	ILE	4.3
1	BaB	826	LEU	4.3
1	BaB	920	THR	4.1
1	BaB	620	PRO	3.9
1	BaB	478	LEU	3.9
1	BaB	771	VAL	3.8
1	BaB	767	GLN	3.7
1	BaB	745	LEU	3.6
1	AaA	870	HIS	3.5
1	BaB	717	ARG	3.5
1	AaA	874	ASP	3.5
1	BaB	822	ASN	3.5
1	BaB	461	ASP	3.4
1	BaB	869	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	BaB	619	ASN	3.4
1	AaA	200	GLU	3.3
1	BaB	512	PHE	3.3
1	AaA	526	GLU	3.3
1	AaA	608	VAL	3.2
1	BaB	759	THR	3.2
1	BaB	752	ILE	3.2
1	BaB	695	TYR	3.2
1	BaB	716	PHE	3.1
1	BaB	622	ASP	3.0
1	AaA	612	VAL	3.0
1	BaB	819	VAL	3.0
1	BaB	623	ASN	3.0
1	BaB	729	TYR	3.0
1	BaB	722	PRO	3.0
1	BaB	673	LEU	3.0
1	BaB	457	LEU	2.9
1	BaB	875	SER	2.9
1	BaB	774	ARG	2.9
1	BaB	671	ILE	2.9
1	BaB	723	VAL	2.9
1	BaB	761	ASN	2.9
1	BaB	825	ILE	2.9
1	BaB	693	THR	2.9
1	BaB	793	VAL	2.9
1	BaB	128	GLU	2.8
1	BaB	644	LEU	2.8
1	BaB	697	VAL	2.8
1	BaB	876	SER	2.8
1	BaB	611	LEU	2.8
1	BaB	758	LEU	2.7
1	BaB	608	VAL	2.7
1	AaA	753	TYR	2.7
1	BaB	675	SER	2.7
1	BaB	757	LEU	2.7
1	BaB	710	ASN	2.7
1	BaB	755	GLU	2.6
1	BaB	690	PRO	2.6
1	BaB	475	ALA	2.6
1	BaB	714	GLN	2.6
1	BaB	651	ILE	2.6
1	AaA	118	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	BaB	779	THR	2.5
1	BaB	799	PHE	2.5
1	BaB	712	LEU	2.5
1	BaB	277	ASN	2.4
1	BaB	709	SER	2.4
1	BaB	711	CYS	2.4
1	BaB	471	TYR	2.4
1	BaB	116	THR	2.4
1	BaB	773	TRP	2.4
1	AaA	921	PHE	2.4
1	AaA	277	ASN	2.4
1	BaB	629	ASN	2.4
1	AaA	670	THR	2.4
1	BaB	518	TRP	2.4
1	AaA	905	LYS	2.4
1	BaB	681	SER	2.3
1	BaB	106	LYS	2.3
1	BaB	707	ASP	2.3
1	AaA	756	ALA	2.3
1	BaB	733	THR	2.3
1	BaB	503	LYS	2.3
1	BaB	783	LYS	2.3
1	BaB	669	ASN	2.3
1	BaB	740	LEU	2.3
1	BaB	784	TYR	2.3
1	BaB	713	TYR	2.2
1	AaA	702	SER	2.2
1	AaA	876	SER	2.2
1	BaB	750	SER	2.2
1	AaA	522	LEU	2.2
1	BaB	720	LEU	2.2
1	BaB	117	PHE	2.2
1	AaA	626[A]	CYS	2.2
1	BaB	692	TRP	2.2
1	BaB	676	GLN	2.2
1	BaB	768	SER	2.2
1	BaB	708	PHE	2.2
1	AaA	755	GLU	2.2
1	AaA	119	ASN	2.2
1	AaA	613	GLN	2.2
1	BaB	460	SER	2.1
1	BaB	820	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	BaB	794	VAL	2.1
1	BaB	621	ARG	2.1
1	BaB	760	THR	2.1
1	AaA	633	LEU	2.1
1	BaB	521	ALA	2.1
1	AaA	669	ASN	2.1
1	AaA	677	HIS	2.1
1	BaB	679	PHE	2.1
1	AaA	611	LEU	2.0
1	BaB	674	LEU	2.0
1	BaB	691	LEU	2.0
1	BaB	543	ASN	2.0
1	BaB	715	ASP	2.0
1	AaA	685	GLN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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, 95th 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 ²)	Q<0.9
1	TPO	BaB	256	11/12	0.81	0.17	55,64,129,136	0
1	TPO	AaA	256	11/12	0.83	0.15	42,51,127,127	0

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, 95th 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 ²)	Q<0.9
2	NAG	AcA	1	14/15	-	-	49,52,62,64	0
2	NAG	AcA	2	14/15	-	-	70,82,91,97	0
2	BMA	AcA	3	11/12	-	-	116,130,137,141	0
2	NAG	BbB	1	14/15	-	-	76,83,94,96	0
2	NAG	BbB	2	14/15	-	-	88,97,114,125	0
2	BMA	BbB	3	11/12	-	-	121,128,132,133	0
3	NAG	AfA	1	14/15	-	-	74,88,97,101	0

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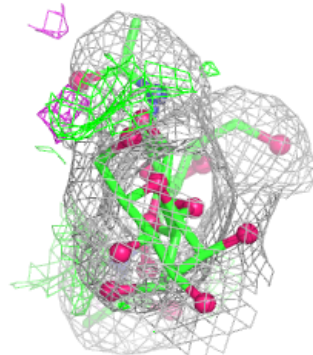
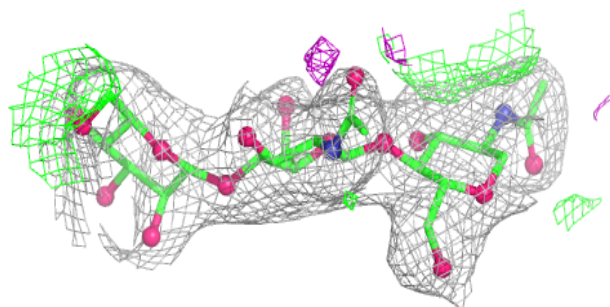
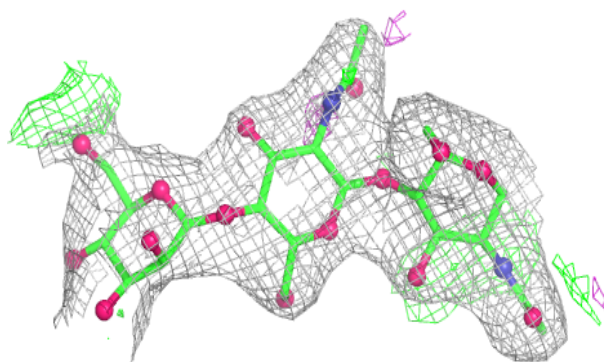
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	NAG	AfA	2	14/15	-	-	97,103,118,124	0
3	MAN	AfA	3	11/12	-	-	90,98,101,105	11
4	NAG	BeB	1	14/15	-	-	101,117,124,130	0
4	NAG	BeB	2	14/15	-	-	110,142,154,156	0

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.

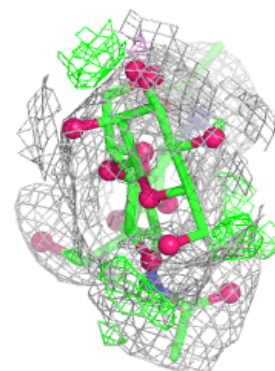
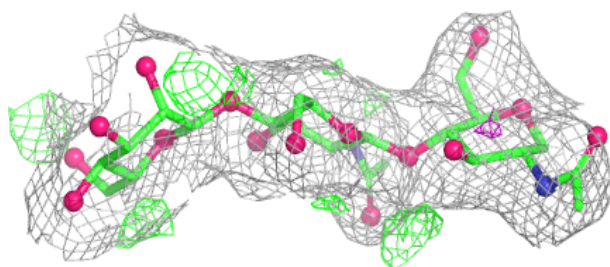
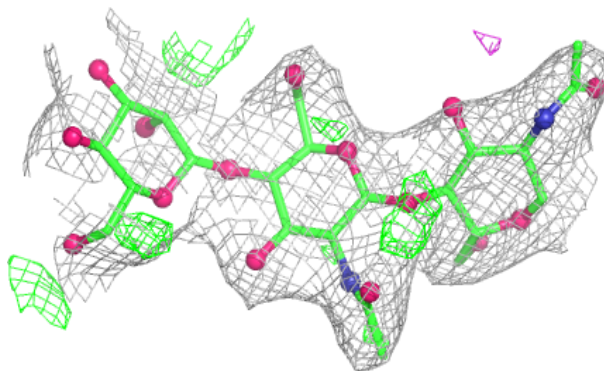
Electron density around Chain AcA:

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

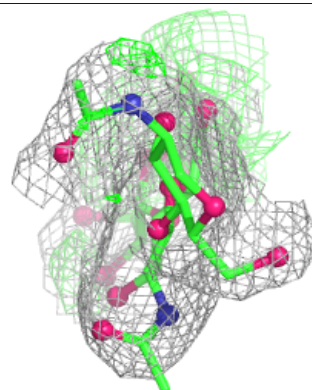
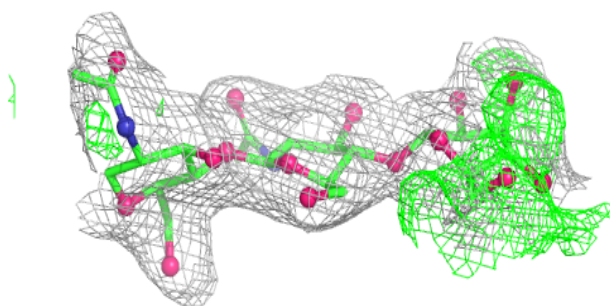
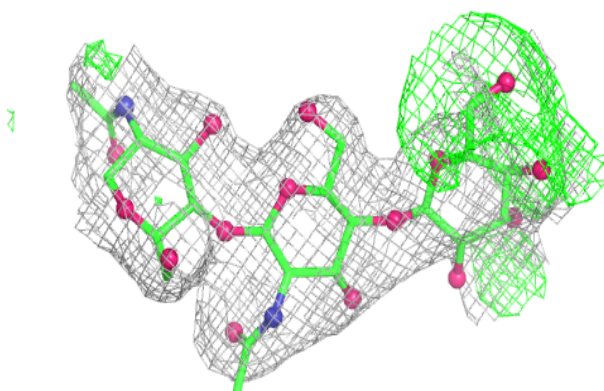


Electron density around Chain BbB:

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

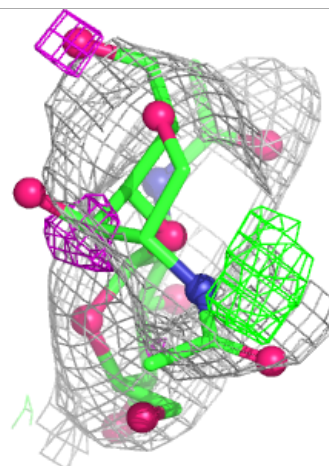
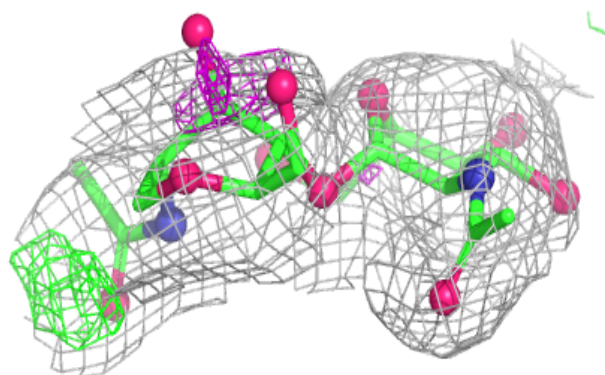
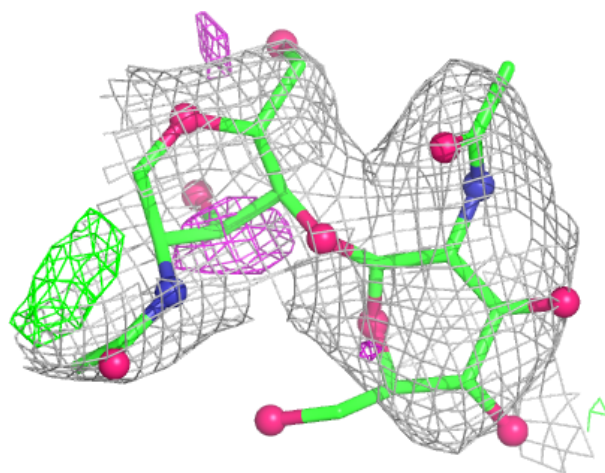
**Electron density around Chain AfA:**

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



Electron density around Chain BeB:

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, 95th 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 ²)	Q<0.9
6	NAG	BaB	1003	14/15	0.55	0.16	109,125,132,133	0
6	NAG	AaA	1003	14/15	0.66	0.15	109,114,120,133	0
6	NAG	AaA	1004	14/15	0.72	0.13	89,112,123,124	0
6	NAG	AaA	1002	14/15	0.72	0.16	115,139,151,170	0
6	NAG	BaB	1002	14/15	0.79	0.27	84,98,105,106	14
7	EDO	AaA	1008	4/4	0.81	0.32	75,79,81,83	0
7	EDO	BaB	1004	4/4	0.85	0.25	86,87,89,89	0
7	EDO	AaA	1005	4/4	0.90	0.18	70,70,75,76	0
7	EDO	AaA	1006	4/4	0.93	0.13	69,70,74,77	0
7	EDO	AaA	1007	4/4	0.95	0.16	65,66,70,72	0
5	ZN	AaA	1001	1/1	0.99	0.04	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	ZN	BaB	1001	1/1	1.00	0.05	67,67,67,67	0

6.5 Other polymers [i](#)

There are no such residues in this entry.