

Full wwPDB X-ray Structure Validation Report (i)

Jun 10, 2024 – 12:10 AM JST

PDB ID	:	8Y6D
Title	:	Norovirus GII.10 P domain and 2'-FL (tablet)
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Deposited on		
Resolution	:	1.41 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 (i) 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 (1)) were used in the production of this report:

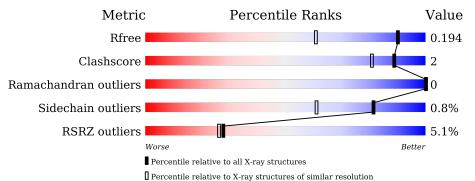
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36.2
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 1.41 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	$\begin{array}{l} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	2579(1.44-1.40)
Clashscore	141614	2696 (1.44-1.40)
Ramachandran outliers	138981	2632 (1.44-1.40)
Sidechain outliers	138945	2631 (1.44-1.40)
RSRZ outliers	127900	2528 (1.44-1.40)

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 <=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	А	315	6% 95% 5%	%
1	В	315	4% 95% •	•
2	D	3	100%	-

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	EDO	А	602	-	-	Х	-



8Y6D

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 10087 atoms, of which 4643 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 GII.10 norovirus P domain in complex with 2'-FL (tablet).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace		
1	Δ	215	Total	С	Η	Ν	0	S	0	0	0
	A	315	4723	1538	2314	408	454	9	0	0	0
1	D	308	Total	С	Н	Ν	0	S	0	2	0
	D	300	4613	1507	2259	392	446	9	0		U

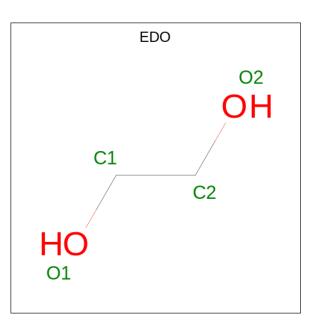
• Molecule 2 is an oligosaccharide called alpha-L-fucopyranose-(1-2)-beta-D-galactopyranose-(1-4)-alpha-D-glucopyranose.



Mol	Chain	Residues	At	\mathbf{oms}		ZeroOcc	AltConf	Trace
2	D	3	Total 33	C 18	0 15	0	0	0

• Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).

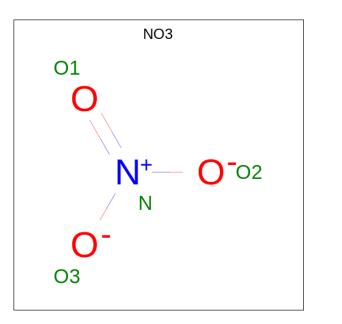




Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total C H O	0	0
0	11	1	10 2 6 2	0	0
3	А	1	Total C H O	0	0
		1	10 2 6 2	0	0
3	А	1	Total C H O	0	0
		1	10 2 6 2		
3	А	1	Total C H O	0	0
		Ĩ	10 2 6 2		
3	А	1	Total C H O	0	0
		-	10 2 6 2		
3	В	1	Total C H O	0	0
		-	10 2 6 2		<u> </u>
3	В	1	Total C H O	0	0
		-	10 2 6 2		
3	В	1	Total C H O	0	0
		-	10 2 6 2		
3	В	1	Total C H O	0	0
		-	10 2 6 2		
3	В	1	Total C H O	0	0
		*	10 2 6 2		

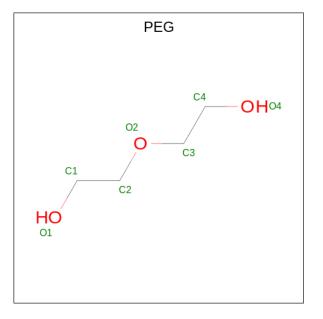
• Molecule 4 is NITRATE ION (three-letter code: NO3) (formula: NO_3).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	А	1	Total 4	N 1	O 3	0	0

• Molecule 5 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	Δ	1	Total	С	Η	0	0	0
5	Π	1	17	4	10	3	0	0

• Molecule 6 is water.



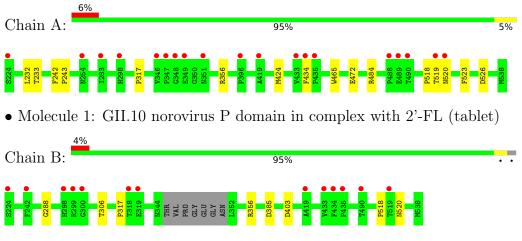
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	308	Total O 308 308	0	0
6	В	289	Total O 289 289	0	0



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: GII.10 norovirus P domain in complex with 2'-FL (tablet)



• Molecule 2: alpha-L-fucopyranose-(1-2)-beta-D-galactopyranose-(1-4)-alpha-D-glucopyranos e

Chain D:

100%

GLC1 GAL2 FUC3



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	65.41Å 78.93Å 70.07Å	Depositor
a, b, c, α , β , γ	90.00° 101.13° 90.00°	Depositor
Resolution (Å)	43.55 - 1.41	Depositor
Resolution (A)	43.55 - 1.41	EDS
% Data completeness	99.4 (43.55-1.41)	Depositor
(in resolution range)	99.4 (43.55 - 1.41)	EDS
R _{merge}	0.06	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.07 (at 1.41 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.19.2_4158: ???)	Depositor
R, R_{free}	0.171 , 0.195	Depositor
II, II, <i>free</i>	0.170 , 0.194	DCC
R_{free} test set	6670 reflections $(4.99%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	18.5	Xtriage
Anisotropy	0.031	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39 , 41.1	EDS
L-test for twinning ²	$ < L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	10087	wwPDB-VP
Average B, all atoms $(Å^2)$	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.12% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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: GLC, GAL, NO3, PEG, FUC, EDO

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		lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.44	0/2480	0.65	0/3402	
1	В	0.45	0/2428	0.67	0/3331	
All	All	0.45	0/4908	0.66	0/6733	

There are no bond length outliers.

There are no bond angle outliers.

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	А	2409	2314	2323	12	0
1	В	2354	2259	2263	5	0
2	D	33	0	30	1	0
3	А	20	30	30	4	0
3	В	20	30	30	1	0
4	А	4	0	0	0	0
5	А	7	10	10	2	0
6	А	308	0	0	2	0
6	В	289	0	0	2	0
All	All	5444	4643	4686	18	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 2.

All (18) 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:B:317:PRO:HG3	6:B:908:HOH:O	1.99	0.62
1:A:472:GLU:OE2	5:A:606:PEG:H31	2.08	0.54
1:A:232:LEU:O	3:A:602:EDO:H21	2.07	0.54
6:A:821:HOH:O	3:B:603:EDO:H21	2.07	0.54
1:A:484:ARG:NH1	1:A:526:ASP:OD2	2.41	0.53
1:A:523:PHE:H	3:A:602:EDO:C1	2.22	0.53
1:A:465:TRP:HE1	3:A:602:EDO:C2	2.24	0.50
1:B:385:ASP:OD2	6:B:701:HOH:O	2.20	0.50
1:A:233:THR:HB	1:A:519:THR:O	2.12	0.49
1:A:518:PRO:HB2	1:A:520:ASN:OD1	2.12	0.49
1:A:424:MET:HB2	6:A:912:HOH:O	2.15	0.47
1:A:465:TRP:HE1	3:A:602:EDO:H22	1.78	0.46
1:B:518:PRO:HB2	1:B:520:ASN:OD1	2.17	0.43
1:A:242:PHE:CD2	1:A:243:PRO:HD2	2.54	0.42
1:A:472:GLU:OE2	5:A:606:PEG:C3	2.68	0.42
1:B:403:ASP:OD2	2:D:1:GLC:H1	2.20	0.41
1:B:288:GLY:HA3	1:B:306:THR:O	2.20	0.41
1:A:233:THR:HB	1:A:520:ASN:HA	2.02	0.41

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	А	313/315~(99%)	306~(98%)	7~(2%)	0	100 100
1	В	306/315~(97%)	296 (97%)	10 (3%)	0	100 100
All	All	619/630~(98%)	602(97%)	17 (3%)	0	100 100



There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	А	264/270~(98%)	261~(99%)	3(1%)	73 48		
1	В	258/270~(96%)	257 (100%)	1 (0%)	91 79		
All	All	522/540~(97%)	518~(99%)	4 (1%)	81 61		

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	317	PRO
1	А	356	ARG
1	А	434	PHE
1	В	356	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	254	ASN
1	А	487	ASN
1	В	302	HIS

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)

3 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	Turne	e Chain Res Link		Link	Bo	ond leng	\mathbf{ths}	Bond angles		
	Type	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	GLC	D	1	2	12,12,12	0.70	0	17,17,17	0.56	0
2	GAL	D	2	2	11,11,12	0.94	1 (9%)	15,15,17	0.98	1 (6%)
2	FUC	D	3	2	10,10,11	1.59	1 (10%)	14,14,16	1.15	2 (14%)

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	GLC	D	1	2	-	0/2/22/22	0/1/1/1
2	GAL	D	2	2	-	0/2/19/22	0/1/1/1
2	FUC	D	3	2	-	-	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	3	FUC	O5-C1	-4.26	1.36	1.43
2	D	2	GAL	O5-C1	-2.03	1.40	1.43

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
2	D	3	FUC	O2-C2-C3	2.55	115.25	110.14
2	D	3	FUC	O5-C1-C2	-2.31	107.21	110.77
2	D	2	GAL	C1-O5-C5	2.29	115.29	112.19

There are no chirality outliers.

There are no torsion outliers.

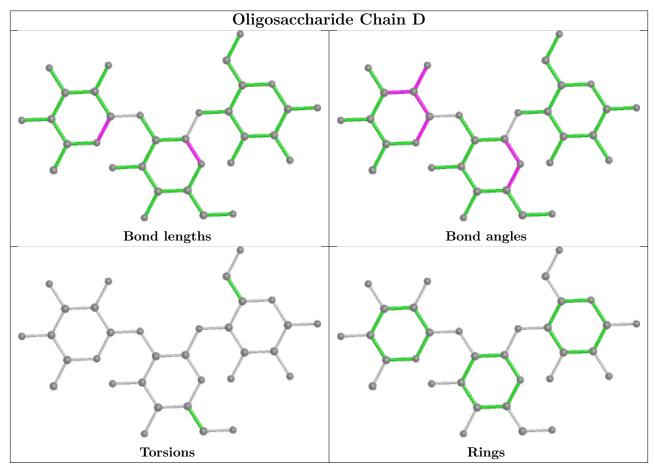
There are no ring outliers.



1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	1	GLC	1	0

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)

12 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).



Mal	Turne	Chain	Dec	Link	B	ond leng	gths	B	ond ang	gles
Mol	Type	Chain	Res		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
3	EDO	А	601	-	$3,\!3,\!3$	0.63	0	2,2,2	0.07	0
3	EDO	А	602	-	3,3,3	0.43	0	2,2,2	0.21	0
5	PEG	А	606	-	$6,\!6,\!6$	0.16	0	$5,\!5,\!5$	0.13	0
3	EDO	А	604	-	3,3,3	0.46	0	2,2,2	0.19	0
3	EDO	В	601	-	3,3,3	0.51	0	2,2,2	0.47	0
3	EDO	В	603	-	3,3,3	0.51	0	2,2,2	0.28	0
4	NO3	А	605	-	1,3,3	0.78	0	0,3,3	-	-
3	EDO	В	605	-	3,3,3	0.46	0	2,2,2	0.59	0
3	EDO	А	603	-	3,3,3	0.54	0	2,2,2	0.33	0
3	EDO	В	602	-	3,3,3	0.43	0	2,2,2	0.24	0
3	EDO	В	604	-	3,3,3	0.51	0	2,2,2	0.19	0
3	EDO	А	607	-	3,3,3	0.48	0	2,2,2	0.32	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
3	EDO	А	601	-	-	0/1/1/1	-
3	EDO	А	602	-	-	0/1/1/1	-
5	PEG	А	606	-	-	3/4/4/4	-
3	EDO	А	604	-	-	0/1/1/1	-
3	EDO	В	601	-	-	0/1/1/1	-
3	EDO	В	603	-	-	0/1/1/1	-
3	EDO	В	605	-	-	0/1/1/1	-
3	EDO	А	603	-	-	0/1/1/1	-
3	EDO	В	602	-	-	0/1/1/1	-
3	EDO	В	604	-	-	0/1/1/1	-
3	EDO	А	607	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	А	606	PEG	O2-C3-C4-O4
5	А	606	PEG	C4-C3-O2-C2
5	А	606	PEG	O1-C1-C2-O2



There are no ring outliers.

3 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	602	EDO	4	0
5	А	606	PEG	2	0
3	В	603	EDO	1	0

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 (i)

6.1 Protein, DNA and RNA chains (i)

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^{th} 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	$\langle RSRZ \rangle$	#RSRZ>2	$\mathbf{OWAB}(\mathbf{A}^2)$	Q < 0.9
1	А	315/315~(100%)	0.28	19 (6%) 21 19	13, 23, 44, 60	4 (1%)
1	В	308/315~(97%)	0.11	13 (4%) 36 36	13, 22, 41, 60	4 (1%)
All	All	623/630~(98%)	0.19	32 (5%) 28 26	13, 22, 43, 60	8 (1%)

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	346	VAL	6.0
1	А	348	GLY	5.8
1	В	433	VAL	5.6
1	А	490	THR	5.1
1	А	224	SER	4.5
1	В	298	HIS	4.4
1	А	433	VAL	4.3
1	А	434	PHE	4.2
1	А	435	PRO	3.9
1	В	519	THR	3.9
1	А	347	PRO	3.7
1	В	435	PRO	3.2
1	А	488	PRO	3.0
1	В	419	ALA	2.9
1	В	224	SER	2.9
1	В	434	PHE	2.7
1	В	490	THR	2.6
1	В	299	ARG	2.5
1	А	489	GLU	2.5
1	А	254	ASN	2.3
1	А	283	ILE	2.3
1	В	300	GLY	2.3
1	А	298	HIS	2.3
1	А	351	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
1	А	349	GLU	2.2
1	А	520	ASN	2.2
1	А	419	ALA	2.2
1	А	519	THR	2.2
1	В	242	PHE	2.1
1	В	319	GLU	2.0
1	А	396	PRO	2.0
1	В	318	THR	2.0

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

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

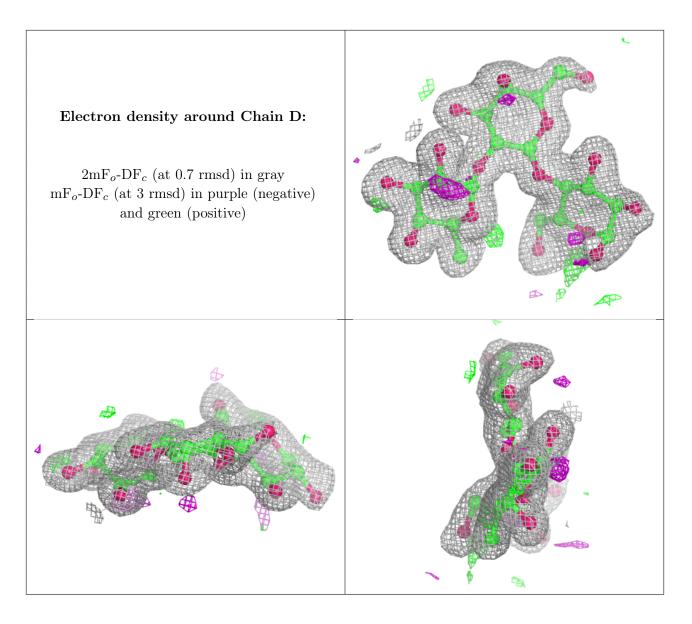
6.3 Carbohydrates (i)

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^{th} 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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
2	GLC	D	1	12/12	0.89	0.16	$31,\!40,\!51,\!59$	0
2	GAL	D	2	11/12	0.92	0.11	27,33,46,61	0
2	FUC	D	3	10/11	0.93	0.08	21,24,25,26	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.





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^{th} 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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q < 0.9
5	PEG	А	606	7/7	0.69	0.26	41,54,62,62	0
3	EDO	А	607	4/4	0.74	0.27	$49,\!58,\!67,\!67$	0
4	NO3	А	605	4/4	0.77	0.14	33,33,34,36	4
3	EDO	В	603	4/4	0.83	0.24	$37,\!48,\!56,\!67$	0
3	EDO	В	601	4/4	0.90	0.16	$29,\!35,\!38,\!38$	0
3	EDO	В	605	4/4	0.93	0.09	31,40,49,52	0
3	EDO	А	603	4/4	0.95	0.10	22,26,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	EDO	А	604	4/4	0.95	0.07	$24,\!30,\!36,\!38$	0
3	EDO	А	602	4/4	0.96	0.23	24,35,43,43	0
3	EDO	А	601	4/4	0.96	0.09	19,30,35,37	0
3	EDO	В	604	4/4	0.96	0.08	22,26,30,30	0
3	EDO	В	602	4/4	0.97	0.10	19,25,28,31	0

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6.5 Other polymers (i)

There are no such residues in this entry.

