

wwPDB X-ray Structure Validation Summary Report (i)

Aug 10, 2020 – 10:53 AM BST

PDB ID : 2JDK

Title: Lectin PA-IIL of P.aeruginosa complexed with disaccharide derivative

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Deposited on : 2007-01-10

Resolution : 1.10 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 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 : 2.13.1

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)

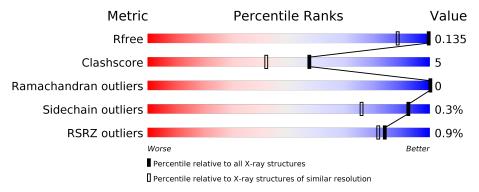
Validation Pipeline (wwPDB-VP) : 2.13.1

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 1.10 Å.

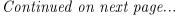
Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	1619 (1.14-1.06)
Clashscore	141614	1671 (1.14-1.06)
Ramachandran outliers	138981	1615 (1.14-1.06)
Sidechain outliers	138945	1613 (1.14-1.06)
RSRZ outliers	127900	1588 (1.14-1.06)

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 on 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	A	115	90%	9%	
1	В	115	91%	8%	•
1	С	115	90%	9%	
1	D	115	88%	11%	.
2	E	2	100%		_
2	F	2	100%		





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Mol	Chain	Length	Quality of chain
2	G	2	100%



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 4167 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 FUCOSE-BINDING LECTIN PA-IIL.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace			
1	A	114	Total	С	N	О	0	1	0	
1	A	114	834	513	144	177	0	1	U	
1	В	114	Total	С	N	О	0	2	0	
1	Б	114	848	523	146	179	0	2	U	
1	\mathbf{C}	114	Total	С	N	О	0	3	0	
1			858	527	148	183	0	9	U	
1 D	D	D 114	Total	С	N	О	0	6	0	
	ש	114	881	539	154	188	0	U	U	

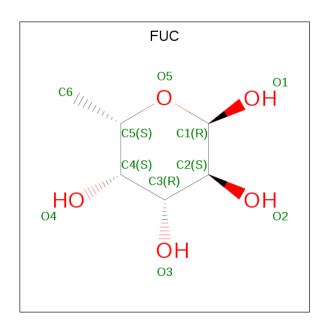
• Molecule 2 is an oligosaccharide called alpha-L-fucopyranose-(1-4)-2-acetamido-2-deoxy-bet a-D-glucopyranose.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	E	2	Total C N O 24 14 1 9	0	0	0
2	F	2	Total C N O 24 14 1 9	0	0	0
2	G	2	Total C N O 24 14 1 9	0	0	0

• Molecule 3 is alpha-L-fucopyranose (three-letter code: FUC) (formula: $C_6H_{12}O_5$).





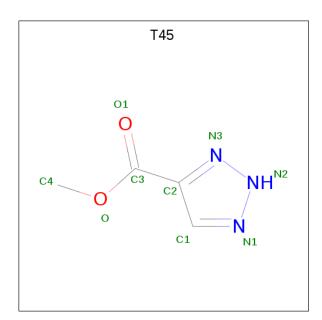
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
3	A	1	Total 11	C 6	O 5	0	0

• Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	2	Total Ca 2 2	0	0
4	A	2	Total Ca 2 2	0	0
4	D	2	Total Ca 2 2	0	0
4	С	2	Total Ca 2 2	0	0

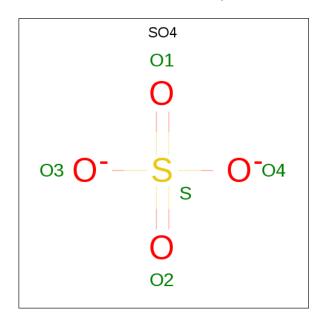
• Molecule 5 is METHYL 2H-1,2,3-TRIAZOLE-4-CARBOXYLATE (three-letter code: T45) (formula: $C_4H_5N_3O_2$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	В	1	Total 9		N 3		0	0
5	С	1	Total 9		N 3		0	0
5	D	1	Total 9	C 4	N 3	O 2	0	0

 \bullet Molecule 6 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$



$oxed{N}$	/Iol	Chain	Residues	Atoms		ZeroOcc	AltConf	
	6	С	1	Total 5	O 4	S 1	0	0



• Molecule 7 is water.

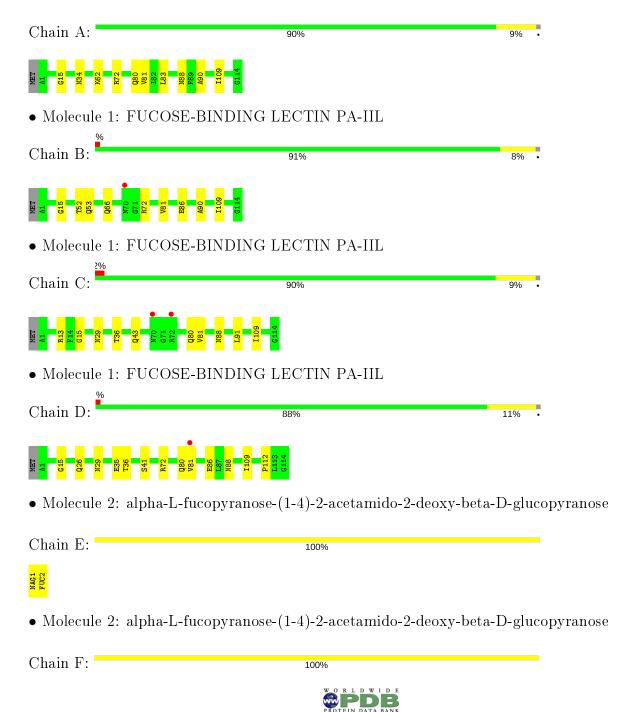
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	166	Total O 166 166	0	0
7	В	161	Total O 161 161	0	0
7	С	143	Total O 143 143	0	0
7	D	153	Total O 153 153	0	0



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: FUCOSE-BINDING LECTIN PA-IIL



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• Molecule 2: alpha-L-fucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain G: 100%

NAG1 FUC2



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	52.61Å 73.08Å 54.50Å	Depositor
a, b, c, α , β , γ	90.00° 94.35° 90.00°	Depositor
Resolution (Å)	54.31 - 1.10	Depositor
rtesolution (A)	22.23 - 1.10	EDS
% Data completeness	99.5 (54.31-1.10)	Depositor
(in resolution range)	99.5 (22.23-1.10)	EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.30~({\rm at}~1.10{\rm \AA})$	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.112 , 0.134	Depositor
It, It free	0.112 , 0.135	DCC
R_{free} test set	8319 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	6.8	Xtriage
Anisotropy	0.028	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	$0.43 \; , \; 54.2$	EDS
L-test for twinning ²	$< L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.014 for l,-k,h	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	4167	wwPDB-VP
Average B, all atoms (Å ²)	10.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.96% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $< L^2>$ 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: FUC, CA, NAG, T45, SO4

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	Boı	nd lengths	Bond angles		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.81	0/844	0.84	0/1156	
1	В	0.83	1/858~(0.1%)	0.79	0/1176	
1	С	0.80	0/868	0.81	0/1189	
1	D	0.81	0/891	0.76	0/1220	
All	All	0.82	1/3461~(0.0%)	0.80	0/4741	

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	${ m Observed}({ m \AA})$	$\mathbf{Ideal}(\mathbf{\mathring{A}})$
1	В	86	GLU	CD-OE2	5.10	1.31	1.25

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	A	834	0	808	10	0
1	В	848	0	825	10	0
1	С	858	0	827	7	0
1	D	881	0	848	13	0
2	Ε	24	0	18	0	0
2	F	24	0	19	0	0

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-	110116	DICUIUU	Du_iu_{C}

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	G	24	0	19	0	0
3	A	11	0	9	0	0
4	A	2	0	0	0	0
4	В	2	0	0	0	0
4	С	2	0	0	0	0
4	D	2	0	0	0	0
5	В	9	0	5	0	0
5	С	9	0	5	0	0
5	D	9	0	5	0	0
6	С	5	0	0	0	0
7	A	166	0	0	1	0
7	В	161	0	0	4	0
7	С	143	0	0	1	0
7	D	153	0	0	6	0
All	All	4167	0	3388	34	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 5.

The worst 5 of 34 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$egin{array}{c} ext{Clash} \ ext{overlap } (ext{Å}) \end{array}$
1:D:35:GLU:HG3	7:D:2060:HOH:O	1.52	1.09
1:A:81:VAL:HG21	1:B:81[C]:VAL:HG21	1.40	1.00
1:C:81[B]:VAL:HG11	1:D:81[B]:VAL:HG11	1.52	0.90
1:D:86[B]:GLU:HG3	7:D:2134:HOH:O	1.76	0.84
1:C:29[B]:ASN:OD1	1:C:36:THR:HG23	1.88	0.73

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	Perce	$_{ m ntiles}$
1	A	113/115~(98%)	110 (97%)	3 (3%)	0	100	100
1	В	$115/115 \; (100\%)$	111 (96%)	4 (4%)	0	100	100
1	$^{\mathrm{C}}$	$116/115 \; (101\%)$	111 (96%)	5 (4%)	0	100	100
1	D	$119/115\ (104\%)$	115 (97%)	4 (3%)	0	100	100
All	All	463/460 (101%)	447 (96%)	16 (4%)	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 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	Percei	ntiles
1	A	94/94 (100%)	94 (100%)	0	100	100
1	В	96/94~(102%)	96 (100%)	0	100	100
1	С	97/94 (103%)	96 (99%)	1 (1%)	76	44
1	D	100/94 (106%)	100 (100%)	0	100	100
All	All	387/376 (103%)	386 (100%)	1 (0%)	92	76

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	13	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
1	В	88	ASN
1	D	88	ASN
1	С	88	ASN
1	В	80	GLN
1	С	43	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)

6 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	Tuno	Chain	Res Link		Bond lengths			Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	NAG	Е	1	2,5	14,14,15	0.94	1 (7%)	17,19,21	0.86	0
2	FUC	Е	2	2,4	10,10,11	0.96	0	14,14,16	1.16	2 (14%)
2	NAG	F	1	2,5	14,14,15	1.16	1 (7%)	17,19,21	0.90	0
2	FUC	F	2	2,4	10,10,11	0.64	0	14,14,16	1.00	1 (7%)
2	NAG	G	1	2,5	14,14,15	0.92	1 (7%)	17,19,21	1.17	3 (17%)
2	FUC	G	2	2,4	10,10,11	0.89	0	14,14,16	1.16	1 (7%)

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	E	1	2,5	-	0/6/23/26	0/1/1/1
2	FUC	E	2	2,4	-	-	0/1/1/1
2	NAG	F	1	2,5	-	0/6/23/26	0/1/1/1
2	FUC	F	2	2,4	-	-	0/1/1/1
2	NAG	G	1	2,5	-	0/6/23/26	0/1/1/1
2	FUC	G	2	2,4	-	-	0/1/1/1

All (3) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	Ideal(A)
2	F	1	NAG	O5-C1	-3.81	1.37	1.43
2	G	1	NAG	O5-C1	-2.89	1.39	1.43
2	Ε	1	NAG	O5-C1	-2.15	1.40	1.43

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
2	E	2	FUC	O2-C2-C1	2.75	114.79	109.15
2	F	2	FUC	O2-C2-C1	2.47	114.21	109.15
2	G	1	NAG	O7-C7-C8	-2.31	117.77	122.06
2	G	1	NAG	C4-C3-C2	-2.11	107.92	111.02
2	G	1	NAG	C8-C7-N2	2.08	119.63	116.10

There are no chirality outliers.

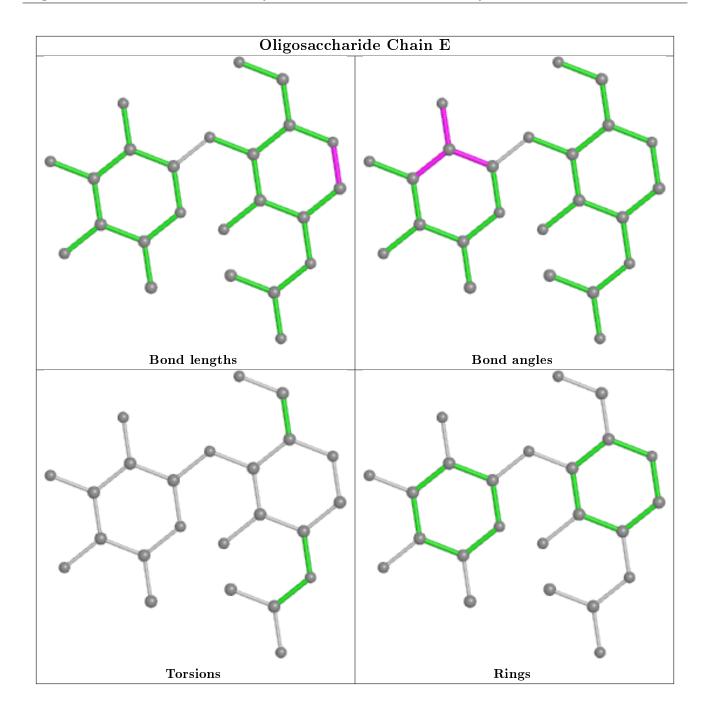
There are no torsion outliers.

There are no ring outliers.

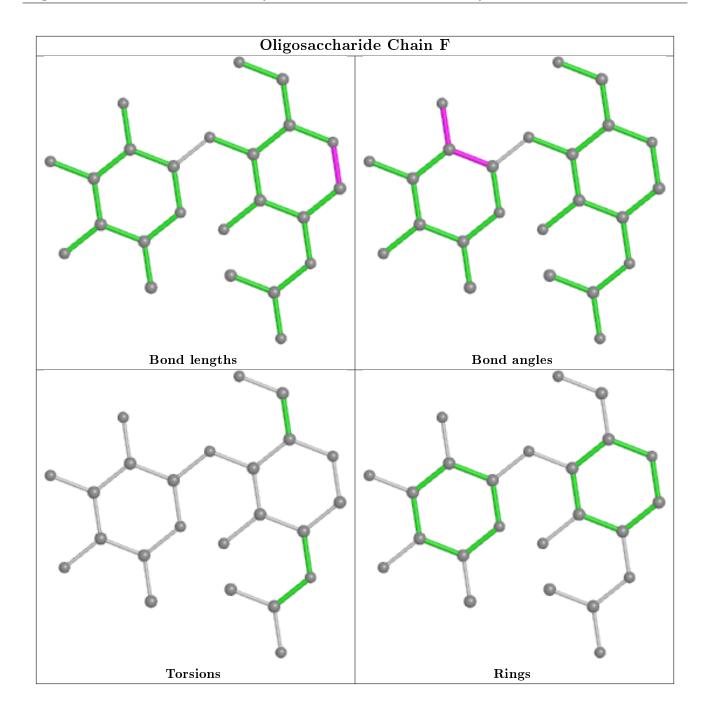
No monomer is involved in short contacts.

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

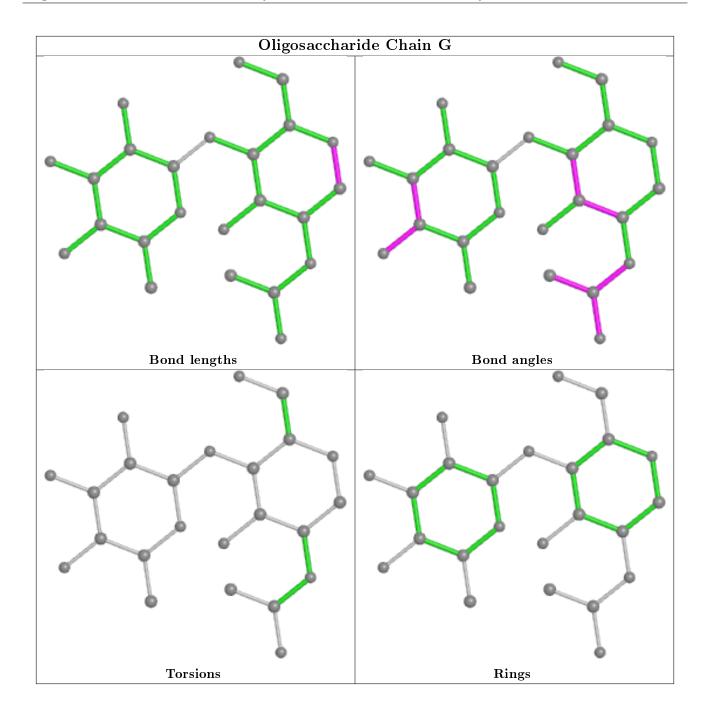












5.6 Ligand geometry (i)

Of 13 ligands modelled in this entry, 8 are monoatomic - leaving 5 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	Tuno	Chain	Res	Link	Во	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
3	FUC	A	1115	4	11,11,11	0.66	0	15,16,16	0.86	0	
5	T45	D	1117	2	8,9,9	2.70	2 (25%)	9,11,11	2.55	5 (55%)	
5	T45	В	1117	2	8,9,9	2.55	2 (25%)	9,11,11	2.48	4 (44%)	
5	T45	С	1120	2	8,9,9	2.91	3 (37%)	9,11,11	1.65	2 (22%)	
6	SO4	С	1115	-	4,4,4	0.55	0	6,6,6	0.63	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	FUC	A	1115	4	-	-	0/1/1/1
5	T45	D	1117	2	-	2/6/6/6	0/1/1/1
5	T45	В	1117	2	-	2/6/6/6	0/1/1/1
5	T45	С	1120	2	-	2/6/6/6	0/1/1/1

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(ext{\AA})$
5	С	1120	T45	O-C3	6.91	1.48	1.33
5	D	1117	T45	O-C3	6.30	1.47	1.33
5	В	1117	T45	O-C3	5.78	1.46	1.33
5	D	1117	T45	N3-N2	3.46	1.40	1.34
5	В	1117	T45	N3-N2	3.39	1.40	1.34

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^o)$
5	D	1117	T45	O-C3-C2	4.22	119.35	112.49
5	В	1117	T45	C4-O-C3	4.10	123.73	115.83
5	В	1117	T45	O-C3-C2	3.98	118.95	112.49
5	В	1117	T45	N1-N2-N3	-3.95	106.33	111.24
5	D	1117	T45	N1-N2-N3	-3.93	106.34	111.24

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms	
5	В	1117	T45	C2-C3-O-C4	

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Mol	Chain	Res	Type	Atoms
5	D	1117	T45	C2-C3-O-C4
5	С	1120	T45	C2-C3-O-C4
5	В	1117	T45	O1-C3-O-C4
5	С	1120	T45	O1-C3-O-C4

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 (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	$\langle { m RSRZ} \rangle$	$\#\mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	114/115 (99%)	-0.23	0 100 100	4, 6, 11, 18	0
1	В	114/115 (99%)	-0.14	1 (0%) 84 82	4, 7, 13, 19	3 (2%)
1	С	114/115 (99%)	-0.06	2 (1%) 68 65	4, 6, 13, 25	0
1	D	114/115 (99%)	-0.20	1 (0%) 84 82	5, 8, 15, 21	1 (0%)
All	All	456/460 (99%)	-0.16	4 (0%) 84 82	4, 7, 14, 25	4 (0%)

All (4) RSRZ outliers are listed below:

Mol	Chain	${f Res}$	\mathbf{Type}	RSRZ
1	С	70	ASN	5.1
1	D	81[A]	VAL	2.9
1	С	72	ARG	2.9
1	В	70	ASN	2.2

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	$\operatorname{B-factors}(ext{\AA}^2)$	Q<0.9
2	NAG	E	1	14/15	0.96	0.16	7,13,23,24	0
2	NAG	G	1	14/15	0.97	0.10	8,13,23,25	0
2	NAG	F	1	14/15	0.98	0.10	8,13,21,22	0

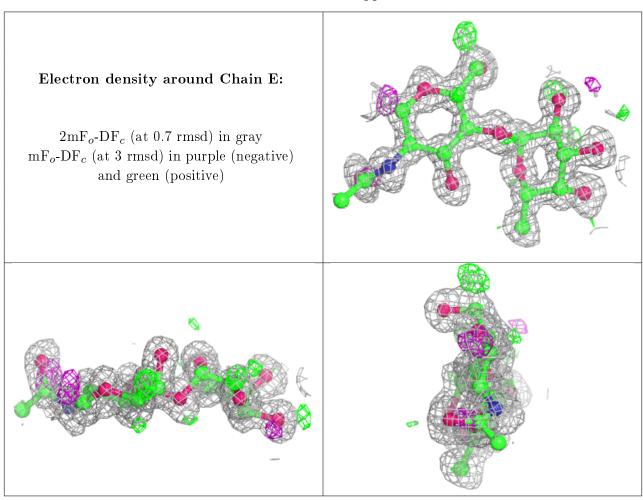
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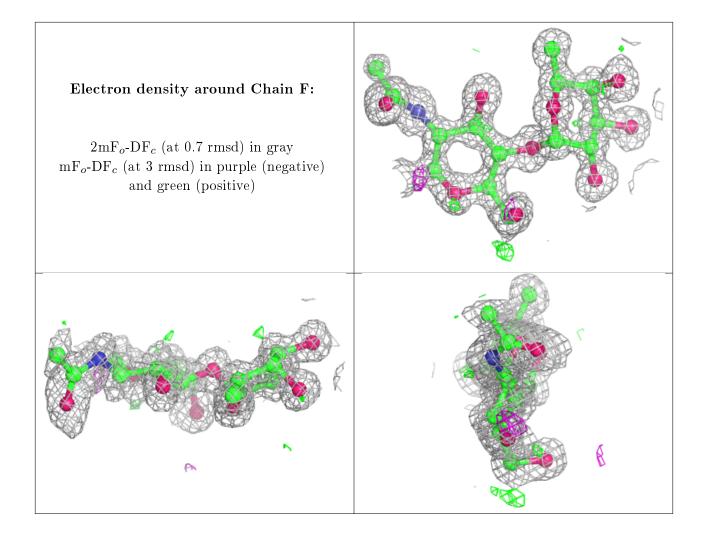
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B\text{-factors}}({f \AA}^2)$	Q < 0.9
2	FUC	F	2	10/11	0.99	0.07	6,6,7,8	0
2	FUC	Ε	2	10/11	0.99	0.06	5,6,8,8	0
2	FUC	G	2	10/11	0.99	0.05	5,6,7,8	0

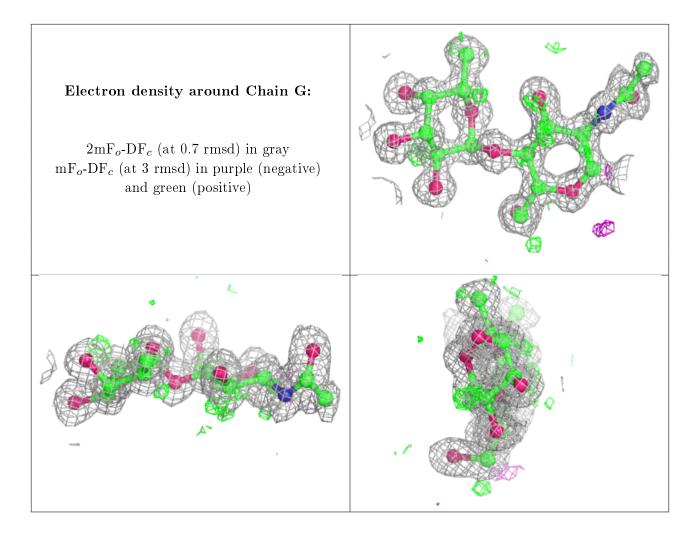
The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.











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	$oxed{ \mathbf{B\text{-}factors}(\mathbf{\mathring{A}}^2) }$	Q<0.9
5	T45	С	1120	9/9	0.75	0.26	20,27,34,37	0
5	T45	D	1117	9/9	0.84	0.31	21,27,38,39	0
5	T45	В	1117	9/9	0.87	0.36	20,27,37,37	0
6	SO4	С	1115	5/5	0.99	0.04	8,9,12,15	0
3	FUC	A	1115	11/11	0.99	0.06	5,5,7,7	0
4	CA	A	1117	1/1	1.00	0.03	5,5,5,5	0
4	CA	В	1119	1/1	1.00	0.04	4,4,4,4	0
4	CA	С	1116	1/1	1.00	0.03	5,5,5,5	0
4	CA	D	1119	1/1	1.00	0.03	5,5,5,5	0
4	CA	A	1116	1/1	1.00	0.04	4,4,4,4	0
4	CA	С	1117	1/1	1.00	0.03	6,6,6,6	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B-factors}({f \AA}^2)$	Q < 0.9
4	CA	В	1118	1/1	1.00	0.04	4,4,4,4	0
4	CA	D	1118	1/1	1.00	0.04	4,4,4,4	0

6.5 Other polymers (i)

There are no such residues in this entry.

