

Full wwPDB X-ray Structure Validation Report (i)

Aug 17, 2022 – 10:48 PM EDT

PDB ID	:	3WUC
Title	:	X-ray crystal structure of Xenopus laevis galectin-Va
Authors	:	Nonaka, Y.; Yoshida, H.; Kamitori, S.; Nakamura, T.
Deposited on		
Resolution	:	1.60 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 (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:

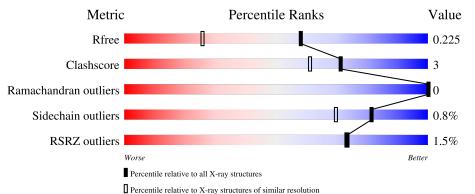
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.29
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.29

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 1.60 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	3398 (1.60-1.60)
Clashscore	141614	3665(1.60-1.60)
Ramachandran outliers	138981	3564 (1.60-1.60)
Sidechain outliers	138945	3563 (1.60-1.60)
RSRZ outliers	127900	3321 (1.60-1.60)

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 <=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	137	91%	8%	•
1	В	137	84%	15%	•
2	С	2	100%		_
2	D	2	100%		



3WUC

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 2564 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.

[Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
	1	٨	135	Total	С	Ν	Ο	S	0	4	0
	1	A	155	1110	704	191	208	7	0	4	U
	1	р	137	Total	С	Ν	0	S	0	2	0
	1	D	157	1115	706	192	210	7	U	5	0

• Molecule 1 is a protein called Galectin.

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	-1	GLY	-	expression tag	UNP Q91786
А	0	SER	-	expression tag	UNP Q91786
В	-1	GLY	-	expression tag	UNP Q91786
В	0	SER	-	expression tag	UNP Q91786

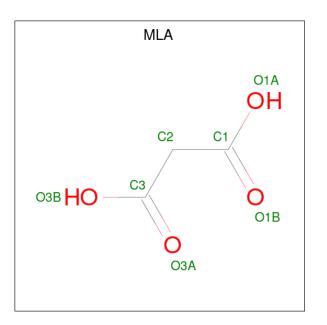
• Molecule 2 is an oligosaccharide called beta-D-galactopyranose-(1-4)-alpha-D-glucopyranos e.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	С	2	Total C O 23 12 11	0	0	0
2	D	2	Total C O 23 12 11	0	0	0

• Molecule 3 is MALONIC ACID (three-letter code: MLA) (formula: $C_3H_4O_4$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 7 3 4 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 7 3 4 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 7 3 4 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 7 3 4 \end{array}$	0	0

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	135	Total O 135 135	0	0
4	В	130	Total O 130 130	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.

Chain A:	91%	8%	·
GLY SER M1 D2 R32 C48 C48 C48 R32 R51	L63 H101 H113 H135		
• Molecule 1:	Galectin		
Chain B:	84%	15%	•
G-1 So M1 P5 P5 D6 I1 R19	R25 R28 R32 R32 R32 R33 R42 R33 R42 R42 R42 R42 R42 R42 R42 R42 R42 R42		
• Molecule 2:	beta-D-galactopy ranose-(1-4)-alpha-D-glucopy ranose		
Chain C:	100%		-
GLC1 GAL2			
• Molecule 2:	beta-D-galactopy ranose-(1-4)-alpha-D-glucopy ranose		
Chain D:	100%		-
GLC1 GAL2			

• Molecule 1: Galectin



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	102.65Å 48.87Å 61.09Å	Depositor
a, b, c, α , β , γ	90.00° 114.08° 90.00°	Depositor
Resolution (Å)	37.88 - 1.60	Depositor
Resolution (A)	37.85 - 1.60	EDS
% Data completeness	98.7 (37.88-1.60)	Depositor
(in resolution range)	98.7 (37.85 - 1.60)	EDS
R _{merge}	0.06	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.20 (at 1.60 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.7.0032	Depositor
D D.	0.182 , 0.217	Depositor
R, R_{free}	0.191 , 0.225	DCC
R_{free} test set	1811 reflections (5.00%)	wwPDB-VP
Wilson B-factor $(Å^2)$	21.4	Xtriage
Anisotropy	0.211	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.39 , 40.4	EDS
L-test for twinning ²	$ < L >=0.53, < L^2>=0.37$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2564	wwPDB-VP
Average B, all atoms $(Å^2)$	21.0	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 $\langle |L| \rangle$, $\langle L^2 \rangle$ 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: MLA, GLC, GAL

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	Mol Chain H		nd lengths	Bond angles	
IVIOI	Unain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	1.09	0/1144	1.19	6/1546~(0.4%)
1	В	1.17	3/1146~(0.3%)	1.23	7/1550~(0.5%)
All	All	1.13	3/2290~(0.1%)	1.21	13/3096~(0.4%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	В	6[A]	ASP	CB-CG	5.96	1.64	1.51
1	В	6[B]	ASP	CB-CG	5.96	1.64	1.51
1	В	39	THR	CB-CG2	-5.19	1.35	1.52

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	В	32	ARG	NE-CZ-NH1	10.37	125.48	120.30
1	А	32	ARG	NE-CZ-NH1	10.17	125.39	120.30
1	В	32	ARG	NE-CZ-NH2	-8.59	116.00	120.30
1	А	113	ARG	NE-CZ-NH2	7.15	123.88	120.30
1	В	25	ARG	NE-CZ-NH1	6.35	123.48	120.30
1	А	32	ARG	NE-CZ-NH2	-6.28	117.16	120.30
1	В	72	ASP	CB-CG-OD2	5.73	123.45	118.30
1	А	113	ARG	NE-CZ-NH1	-5.69	117.45	120.30
1	А	2	ASP	CB-CG-OD2	5.67	123.40	118.30
1	В	42	ARG	NE-CZ-NH2	-5.49	117.55	120.30
1	В	121	TYR	CB-CG-CD1	5.17	124.10	121.00
1	В	80	PHE	CB-CG-CD1	-5.14	117.20	120.80
1	А	51	ARG	NE-CZ-NH1	-5.11	117.75	120.30

All (13) bond angle outliers are listed below:

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	1110	0	1115	5	0
1	В	1115	0	1114	11	0
2	С	23	0	21	0	0
2	D	23	0	21	0	0
3	А	7	0	2	0	0
3	В	21	0	6	0	0
4	А	135	0	0	1	0
4	В	130	0	0	2	0
All	All	2564	0	2279	16	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 (16) 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:28:LYS:HE2	1:B:29:GLY:H	1.55	0.71
1:B:135:HIS:ND1	4:B:368:HOH:O	2.22	0.65
1:B:28:LYS:HE2	1:B:29:GLY:N	2.15	0.61
1:B:5:PRO:O	1:B:6[B]:ASP:OD1	2.22	0.58
1:B:9:ILE:HD13	1:B:132:ILE:HD13	1.86	0.57
1:B:107:GLU:O	1:B:108[A]:ILE:HD13	2.08	0.53
1:A:135:HIS:CE1	4:A:520:HOH:O	2.61	0.53
1:B:19:ARG:NH1	4:B:395:HOH:O	2.43	0.50
1:A:122:LEU:C	1:A:122:LEU:HD23	2.33	0.49
1:B:77:GLU:HG2	1:B:108[B]:ILE:HD11	1.95	0.49
1:B:48:CYS:HA	1:B:63[A]:LEU:HD23	1.96	0.46
1:A:101:HIS:ND1	1:A:107:GLU:HG2	2.32	0.45
1:B:36:ASP:O	1:B:122:LEU:HA	2.19	0.43
1:A:101:HIS:CE1	1:A:107:GLU:HG2	2.55	0.42
1:B:108[B]:ILE:HD13	1:B:108[B]:ILE:HG21	1.90	0.41
1:A:48:CYS:HA	1:A:63:LEU:HD23	2.01	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	137/137~(100%)	132~(96%)	5(4%)	0	100	100
1	В	138/137~(101%)	133~(96%)	5(4%)	0	100	100
All	All	275/274~(100%)	265~(96%)	10 (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		Percentiles		
1	А	129/126~(102%)	128~(99%)	1 (1%)	81 70		
1	В	129/126~(102%)	128~(99%)	1 (1%)	81 70		
All	All	258/252~(102%)	256~(99%)	2(1%)	81 70		

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	69	ASP
1	В	28	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	135	HIS
	<i>a</i>	-	

Continued on next page...



Continued from previous page...

Mol	Chain	Res	Type
1	В	59	ASN

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)

4 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	Chain D		Link	Bo	Bond lengths			Bond angles		
	ol Type Cha	Chain	Res		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
2	GLC	С	1	2	12,12,12	0.85	0	$17,\!17,\!17$	2.64	10 (58%)	
2	GAL	С	2	2	11,11,12	0.87	0	$15,\!15,\!17$	1.02	1 (6%)	
2	GLC	D	1	2	12,12,12	0.67	0	$17,\!17,\!17$	1.46	3 (17%)	
2	GAL	D	2	2	11,11,12	0.95	1 (9%)	$15,\!15,\!17$	1.17	1 (6%)	

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	С	1	2	-	0/2/22/22	0/1/1/1
2	GAL	С	2	2	-	0/2/19/22	0/1/1/1
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



All ((1)	bond	length	outliers	are	listed	below:	
-------	-----	------	--------	----------	-----	--------	--------	--

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	2	GAL	O5-C1	-2.18	1.40	1.43

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	С	1	GLC	O5-C1-C2	5.17	119.51	110.28
2	С	1	GLC	O1-C1-O5	-4.24	97.65	110.38
2	С	1	GLC	O1-C1-C2	-4.04	97.65	109.03
2	D	1	GLC	O6-C6-C5	3.01	121.62	111.29
2	С	1	GLC	C1-O5-C5	3.00	119.32	113.66
2	С	1	GLC	O2-C2-C1	2.71	115.44	109.16
2	D	1	GLC	C4-C3-C2	2.62	115.40	110.82
2	С	1	GLC	C3-C4-C5	-2.61	105.59	110.24
2	С	1	GLC	C4-C3-C2	2.57	115.31	110.82
2	С	1	GLC	O5-C5-C6	2.52	112.70	106.44
2	С	1	GLC	O6-C6-C5	-2.25	103.56	111.29
2	D	1	GLC	O3-C3-C2	-2.23	105.20	110.35
2	D	2	GAL	O3-C3-C4	2.18	115.40	110.35
2	С	2	GAL	O3-C3-C4	2.04	115.07	110.35
2	С	1	GLC	O3-C3-C2	-2.01	105.70	110.35

There are no chirality outliers.

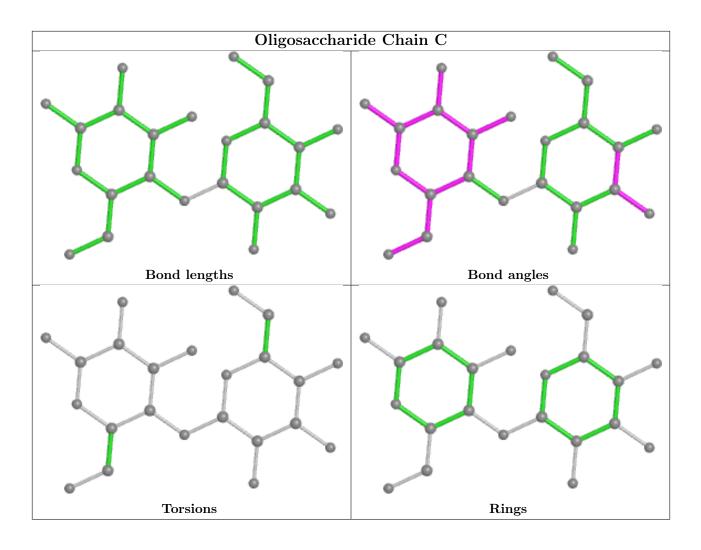
There are no torsion outliers.

There are no ring outliers.

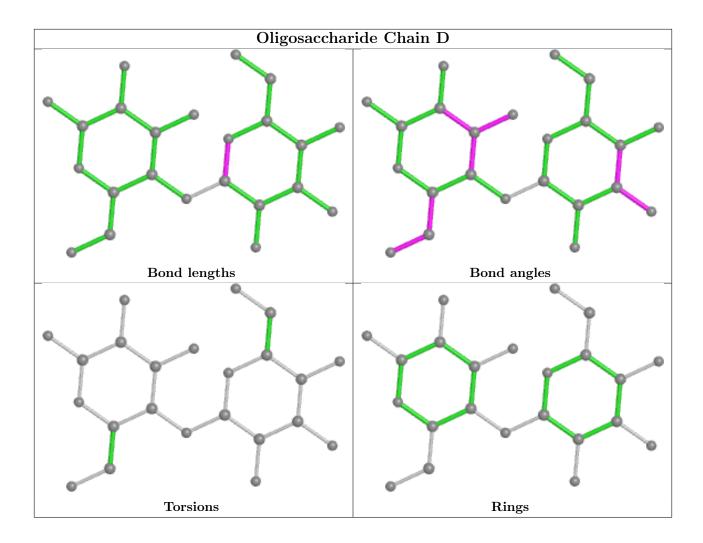
No monomer is involved in short contacts.

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)

4 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		
	Moi Type	Ullaili			Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	MLA	В	204	-	6,6,6	1.72	1 (16%)	7,7,7	1.85	3 (42%)
3	MLA	В	201	-	6,6,6	1.42	1 (16%)	7,7,7	1.01	0
3	MLA	А	203	-	6,6,6	1.07	0	7,7,7	0.82	0
3	MLA	В	205	-	6,6,6	2.04	2 (33%)	7,7,7	1.56	1 (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
3	MLA	В	204	-	-	2/4/4/4	-
3	MLA	В	201	-	-	4/4/4/4	-
3	MLA	А	203	-	-	2/4/4/4	-
3	MLA	В	205	-	-	1/4/4/4	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
3	В	204	MLA	C2-C3	3.57	1.56	1.51
3	В	205	MLA	C2-C1	3.03	1.55	1.51
3	В	201	MLA	O3B-C3	-2.77	1.21	1.30
3	В	205	MLA	C2-C3	2.72	1.55	1.51

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
3	В	204	MLA	O3B-C3-C2	3.08	124.37	114.54
3	В	204	MLA	O3A-C3-C2	-2.48	114.82	122.08
3	В	205	MLA	O3B-C3-C2	2.40	122.20	114.54
3	В	204	MLA	O1B-C1-C2	-2.05	116.10	122.08

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	В	201	MLA	C1-C2-C3-O3B
3	В	204	MLA	O1A-C1-C2-C3
3	В	204	MLA	O1B-C1-C2-C3
3	А	203	MLA	C1-C2-C3-O3A
3	А	203	MLA	C1-C2-C3-O3B
3	В	201	MLA	C1-C2-C3-O3A
3	В	201	MLA	O1A-C1-C2-C3
3	В	201	MLA	O1B-C1-C2-C3
3	В	205	MLA	O1B-C1-C2-C3

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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	135/137~(98%)	0.13	0 100 100	14, 18, 28, 41	0
1	В	137/137~(100%)	0.20	4 (2%) 51 49	13, 18, 32, 38	0
All	All	272/274~(99%)	0.16	4 (1%) 73 73	13, 18, 30, 41	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	1	MET	4.1
1	В	0	SER	3.2
1	В	-1	GLY	2.7
1	В	135	HIS	2.1

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

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

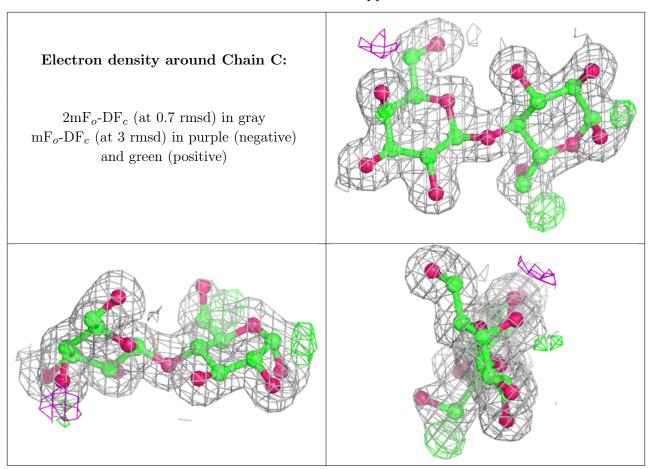
6.3 Carbohydrates (i)

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	$B-factors(Å^2)$	Q < 0.9
2	GLC	D	1	12/12	0.89	0.13	20,26,32,36	0
2	GAL	D	2	11/12	0.93	0.09	15,17,20,25	0
2	GLC	С	1	12/12	0.94	0.12	17,20,26,39	0
2	GAL	С	2	11/12	0.96	0.06	17,17,20,21	0

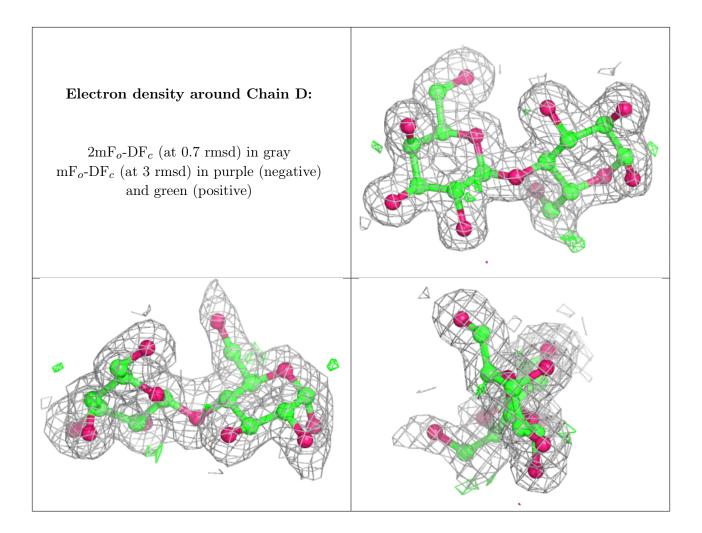
The following is a graphical depiction of the model fit to experimental electron density for oligosac-





charide. 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
3	MLA	В	205	7/7	0.82	0.19	$27,\!31,\!35,\!38$	0
3	MLA	В	201	7/7	0.92	0.14	32,34,42,49	0
3	MLA	В	204	7/7	0.92	0.12	19,22,27,32	0
3	MLA	А	203	7/7	0.92	0.09	22,23,27,33	0

6.5 Other polymers (i)

There are no such residues in this entry.

