

Full wwPDB X-ray Structure Validation Report (i)

Nov 20, 2023 – 12:12 AM JST

PDB ID : 7C8F

Title: Structure of alginate lyase AlyC3 in complex with dimannuronate(2M)

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Deposited on : 2020-05-30

Resolution : 1.46 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

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)

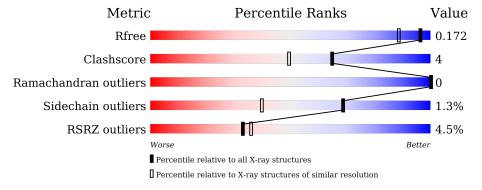
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.46 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	130704	1156 (1.46-1.46)
Clashscore	141614	1202 (1.46-1.46)
Ramachandran outliers	138981	1178 (1.46-1.46)
Sidechain outliers	138945	1178 (1.46-1.46)
RSRZ outliers	127900	1139 (1.46-1.46)

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	A	266	95%	5%
1	В	266	95%	• •
2	С	2	100%	
2	D	2	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 crite-



ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	MLI	В	301	-	X	-	-



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 5148 atoms, of which 4 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 H127A/Y244A mutant of alginate lyase AlyC3 in complex with dimannuronate.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	266	Total 2163	C 1371	N 379	O 406	S 7	0	4	0
1	В	266	Total 2153	C 1366	N 377	O 403	S 7	0	3	0

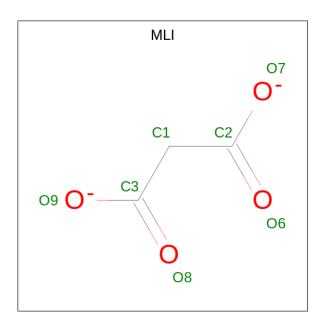
• Molecule 2 is an oligosaccharide called beta-D-mannopyranuronic acid-(1-4)-beta-D-mannopyranuronic acid.



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace
2	С	2	Total (25 1		0	0	0
2	D	2	Total (25 1	O O 2 13	0	0	0

• Molecule 3 is MALONATE ION (three-letter code: MLI) (formula: $C_3H_2O_4$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total 9	C 3		O 4	0	0
3	В	1	Total 9	C 3	H 2	O 4	0	0

• Molecule 4 is water.

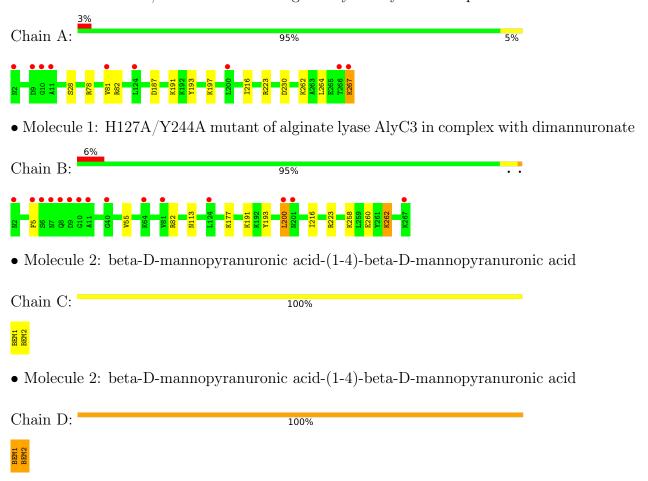
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	384	Total O 384 384	0	0
4	В	380	Total O 380 380	0	0



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: H127A/Y244A mutant of alginate lyase AlyC3 in complex with dimannuronate





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	80.86Å 106.41Å 79.29Å	Donositor
a, b, c, α , β , γ	90.00° 93.85° 90.00°	Depositor
Resolution (Å)	30.35 - 1.46	Depositor
Resolution (A)	30.35 - 1.46	EDS
% Data completeness	98.1 (30.35-1.46)	Depositor
(in resolution range)	98.1 (30.35-1.46)	EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	4.71 (at 1.46Å)	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
D D.	0.156 , 0.172	Depositor
R, R_{free}	0.159 , 0.172	DCC
R_{free} test set	5589 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å ²)	16.7	Xtriage
Anisotropy	0.462	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36, 50.2	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	5148	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.91% 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: MLI, BEM

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		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.80	0/2210	0.72	1/2977 (0.0%)	
1	В	0.72	0/2203	0.71	0/2967	
All	All	0.76	0/4413	0.72	1/5944 (0.0%)	

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$
1	A	230	ASP	CB-CG-OD1	-5.72	113.15	118.30

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	2163	0	2135	22	0
1	В	2153	0	2130	24	0
2	С	25	0	15	0	0
2	D	25	0	15	1	0
3	A	7	2	2	0	0
3	В	7	2	2	0	0
4	A	384	0	0	2	0
4	В	380	0	0	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	5144	4	4299	36	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 4.

All (36) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
1:A:264:LEU:HD22	1:B:113:ASN:CG	1.79	1.03
1:B:200:LEU:HD12	1:B:200:LEU:H	1.38	0.89
1:A:264:LEU:CD2	1:B:113:ASN:ND2	2.45	0.79
1:A:264:LEU:HD23	1:B:113:ASN:ND2	2.03	0.74
1:A:264:LEU:CD2	1:B:113:ASN:CG	2.55	0.74
1:A:264:LEU:HD22	1:B:113:ASN:CB	2.19	0.72
1:A:264:LEU:CD2	1:B:113:ASN:HB3	2.19	0.72
1:B:200:LEU:H	1:B:200:LEU:CD1	2.04	0.70
1:A:264:LEU:HD22	1:B:113:ASN:ND2	2.08	0.66
1:A:264:LEU:CD2	1:B:113:ASN:CB	2.75	0.64
1:B:200:LEU:O	1:B:200:LEU:HD13	1.98	0.62
1:A:264:LEU:HD22	1:B:113:ASN:HB3	1.82	0.61
1:A:262:LYS:HD2	4:B:757:HOH:O	2.03	0.58
1:A:264:LEU:HD21	1:B:113:ASN:HB3	1.86	0.57
1:A:191:LYS:HE3	1:A:193:TYR:CZ	2.41	0.55
1:A:216:ILE:HG23	1:A:223[A]:ARG:CD	2.37	0.54
1:A:216:ILE:HG23	1:A:223[A]:ARG:HD2	1.91	0.52
1:B:258:LYS:HE3	1:B:260:GLU:CD	2.32	0.50
1:B:113:ASN:ND2	4:B:406:HOH:O	2.43	0.50
1:B:200:LEU:CD1	1:B:200:LEU:N	2.71	0.50
1:B:191:LYS:HE3	1:B:193:TYR:CZ	2.48	0.48
1:A:28:SER:CB	1:A:81[B]:VAL:HG13	2.43	0.48
1:A:262:LYS:HD2	4:B:492:HOH:O	2.14	0.48
2:D:1:BEM:C6	2:D:2:BEM:C1	2.92	0.47
1:A:28:SER:HB3	1:A:81[B]:VAL:HG13	1.96	0.47
1:B:191:LYS:HE3	1:B:193:TYR:OH	2.14	0.46
1:B:5:PHE:HA	1:B:55:VAL:O	2.16	0.46
1:A:267:LYS:HD3	1:A:267:LYS:HA	1.66	0.45
1:A:191:LYS:HE3	1:A:193:TYR:OH	2.19	0.43
1:A:78:ARG:HG3	4:A:420:HOH:O	2.18	0.42
1:B:177:LYS:HB3	4:B:484:HOH:O	2.19	0.42
1:B:200:LEU:HD12	1:B:200:LEU:N	2.19	0.42
1:B:216:ILE:HG23	1:B:223[A]:ARG:CD	2.50	0.42
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Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} ({\rm \AA}) \end{array}$	Clash overlap (Å)	
1:B:262:LYS:NZ	4:B:416:HOH:O	2.52	0.41	
1:A:264:LEU:HD23	1:B:113:ASN:HD22	1.83	0.41	
1:A:197:LYS:HD3	4:A:468:HOH:O	2.21	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	Perce	Percentiles	
1	A	268/266 (101%)	261 (97%)	7 (3%)	0	100	100	
1	В	267/266 (100%)	259 (97%)	8 (3%)	0	100	100	
All	All	535/532 (101%)	520 (97%)	15 (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 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	Percentiles		
1	A	$234/230\ (102\%)$	231 (99%)	3 (1%)	69	40
1	В	233/230 (101%)	230 (99%)	3 (1%)	69	40
All	All	467/460 (102%)	461 (99%)	6 (1%)	69	40

All (6) residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	A	82	ARG
1	A	187	ASP
1	A	267	LYS
1	В	82	ARG
1	В	200	LEU
1	В	262	LYS

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

Mol	Chain	Res	Type
1	A	2	ASN
1	В	4	GLN
1	В	113	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	Tuno	Chain	Res	Link	Во	ond leng	ths	Bond angles		
Mol Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	BEM	С	1	2	13,13,13	1.07	1 (7%)	18,19,19	0.84	0
2	BEM	С	2	2	12,12,13	1.57	2 (16%)	14,17,19	1.54	3 (21%)
2	BEM	D	1	2	13,13,13	1.14	2 (15%)	18,19,19	0.90	1 (5%)
2	BEM	D	2	2	12,12,13	1.64	4 (33%)	14,17,19	1.73	3 (21%)



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	BEM	С	1	2	-	0/4/24/24	0/1/1/1
2	BEM	С	2	2	-	0/4/21/24	0/1/1/1
2	BEM	D	1	2	-	0/4/24/24	0/1/1/1
2	BEM	D	2	2	-	0/4/21/24	0/1/1/1

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	Ideal(Å)
2	С	2	BEM	O6B-C6	-3.76	1.18	1.30
2	D	2	BEM	O6B-C6	-2.85	1.21	1.30
2	D	2	BEM	C4-C5	-2.46	1.49	1.53
2	D	2	BEM	C5-C6	-2.39	1.47	1.53
2	D	1	BEM	C5-C6	-2.29	1.48	1.53
2	D	1	BEM	O6B-C6	-2.16	1.23	1.30
2	С	1	BEM	O6B-C6	-2.13	1.23	1.30
2	D	2	BEM	O5-C1	-2.04	1.40	1.43
2	С	2	BEM	C5-C6	-2.00	1.48	1.53

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\mathrm{Ideal}(^{o})$
2	D	2	BEM	O3-C3-C4	-3.80	101.56	110.35
2	С	2	BEM	C2-C3-C4	-2.80	106.05	110.89
2	С	2	BEM	O4-C4-C5	2.65	115.69	109.74
2	D	2	BEM	C2-C3-C4	-2.53	106.51	110.89
2	С	2	BEM	O2-C2-C3	-2.18	105.77	110.14
2	D	2	BEM	O5-C1-C2	-2.17	107.43	110.77
2	D	1	BEM	O5-C5-C4	2.02	113.18	109.57

There are no chirality outliers.

There are no torsion outliers.

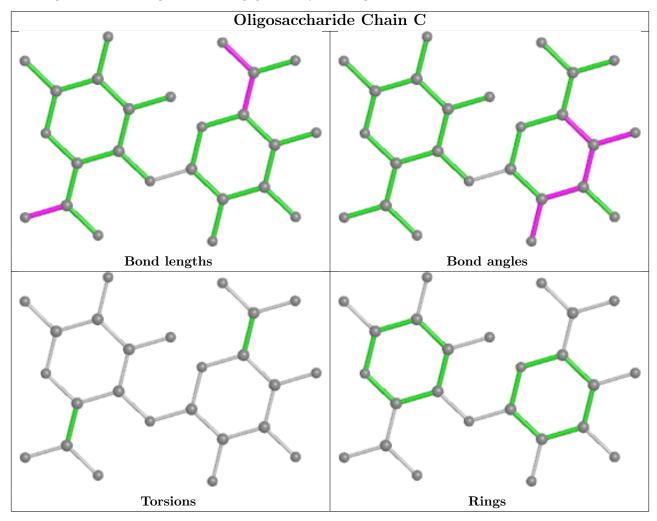
There are no ring outliers.

2 monomers are involved in 1 short contact:

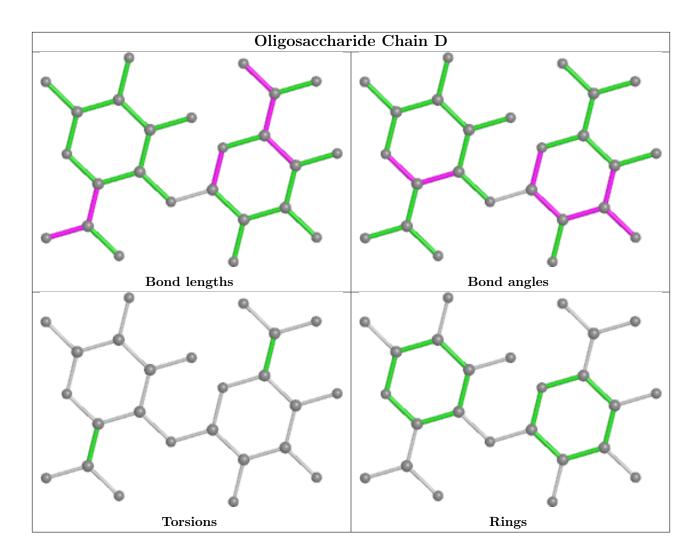
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	1	BEM	1	0
2	D	2	BEM	1	0



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)

2 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	Mol Type	Chain	Ros	Link	Bond lengths			Bond angles		
MIOI	туре	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	MLI	В	301	-	6,6,6	1.89	2 (33%)	7,7,7	1.21	1 (14%)
3	MLI	A	301	-	6,6,6	1.92	2 (33%)	7,7,7	0.83	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	MLI	В	301	-	-	4/4/4/4	-
3	MLI	A	301	-	-	4/4/4/4	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
3	A	301	MLI	O9-C3	-3.74	1.18	1.30
3	В	301	MLI	O9-C3	-3.64	1.18	1.30
3	В	301	MLI	O7-C2	-2.75	1.21	1.30
3	A	301	MLI	O7-C2	-2.68	1.21	1.30

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}(^{o})$
3	В	301	MLI	O7-C2-C1	2.18	121.50	114.54

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	301	MLI	C2-C1-C3-O9
3	В	301	MLI	C2-C1-C3-O9
3	A	301	MLI	C3-C1-C2-O7
3	В	301	MLI	C2-C1-C3-O8
3	A	301	MLI	C3-C1-C2-O6
3	A	301	MLI	C2-C1-C3-O8
3	В	301	MLI	C3-C1-C2-O6
3	В	301	MLI	C3-C1-C2-O7

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	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	266/266 (100%)	0.17	9 (3%) 45 48	12, 19, 39, 65	0
1	В	266/266 (100%)	0.25	15 (5%) 24 26	13, 20, 49, 80	0
All	All	532/532 (100%)	0.21	24 (4%) 33 36	12, 20, 46, 80	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	200	LEU	6.8
1	В	9	ASP	6.0
1	A	200	LEU	5.7
1	A	267	LYS	4.9
1	A	9	ASP	4.7
1	В	8	GLN	4.5
1	A	266	THR	3.9
1	В	40	GLY	3.7
1	В	11	ALA	3.5
1	В	5	PHE	3.5
1	В	10	GLY	3.4
1	В	2	ASN	3.4
1	A	10	GLY	3.3
1	В	64	LYS	3.0
1	В	7	ASN	2.8
1	В	267	LYS	2.7
1	A	11	ALA	2.5
1	В	201	ASN	2.4
1	В	124	LEU	2.4
1	A	124	LEU	2.4
1	A	2	ASN	2.3
1	В	6	SER	2.3
1	В	81[A]	VAL	2.3
1	A	81[A]	VAL	2.1



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

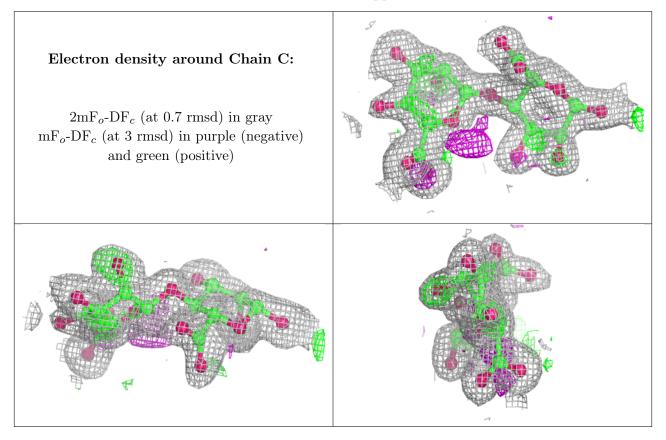
There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

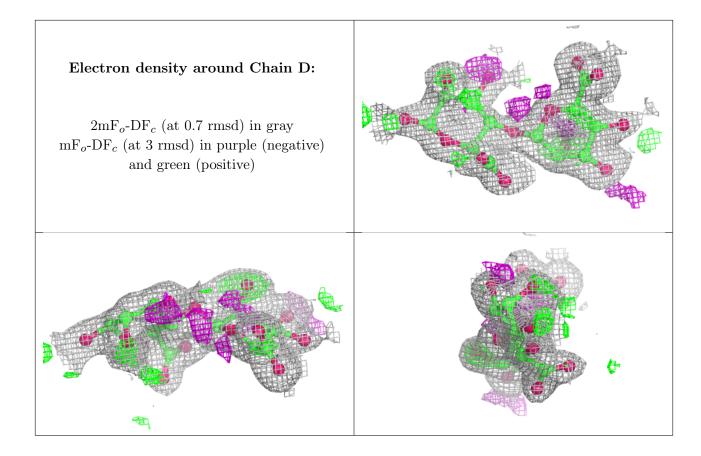
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	BEM	D	1	13/13	0.69	0.17	30,61,85,87	0
2	BEM	С	1	13/13	0.74	0.15	30,56,83,88	0
2	BEM	С	2	12/13	0.89	0.11	19,49,87,100	0
2	BEM	D	2	12/13	0.89	0.11	20,47,84,85	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	${f B-factors(\AA^2)}$	Q<0.9
3	MLI	В	301	7/7	0.81	0.15	27,29,34,34	0
3	MLI	A	301	7/7	0.84	0.14	27,29,35,35	0

6.5 Other polymers (i)

There are no such residues in this entry.

