



wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 3, 2021 – 05:15 PM EDT

PDB ID : 3LIZ
Title : crystal structure of bla g 2 complexed with Fab 4C3
Authors : Li, M.; Gustchina, A.; Glesner, J.; Wunschmann, S.; Pomes, A.; Wlodawer, A.
Deposited on : 2010-01-25
Resolution : 1.80 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 ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) 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 : 2.23.2
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) : 2.23.2

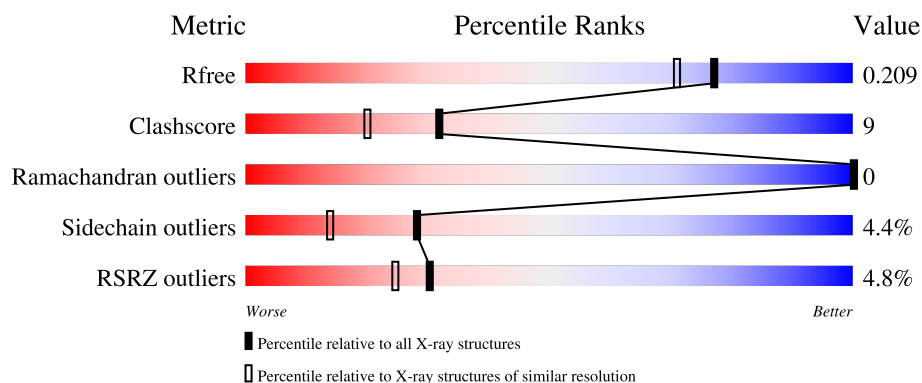
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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}	130704	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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	A	334	<div> <div>4%</div> <div>83%</div> <div>15%</div> <div>..</div> </div>
2	L	211	<div> <div>%</div> <div>81%</div> <div>18%</div> <div>.</div> </div>
3	H	253	<div> <div>8%</div> <div>72%</div> <div>9%</div> <div>16%</div> <div>.</div> </div>
4	B	4	<div> <div>50%</div> <div>50%</div> </div>

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 6859 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 Aspartic protease Blag 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	329	Total	C	N	O	S	0	8	0
			2573	1645	421	493	14			

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-10	GLU	-	expression tag	UNP P54958
A	-9	ALA	-	expression tag	UNP P54958
A	-8	GLU	-	expression tag	UNP P54958
A	-7	ALA	-	expression tag	UNP P54958
A	-6	SER	-	expression tag	UNP P54958
A	-5	ILE	-	expression tag	UNP P54958
A	93	GLN	ASN	engineered mutation	UNP P54958

- Molecule 2 is a protein called 4C3 monoclonal antibody Light Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	211	Total	C	N	O	S	0	10	0
			1710	1075	282	347	6			

- Molecule 3 is a protein called 4C3 monoclonal antibody Heavy Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	H	213	Total	C	N	O	S	0	2	0
			1608	1020	266	314	8			

- Molecule 4 is an oligosaccharide called alpha-D-mannopyranose-(1-6)-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
4	B	4	Total	C	N	O	0	0	0
			50	28	2	20			

- Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).



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

- Molecule 6 is CADMIUM ION (three-letter code: CD) (formula: Cd).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	3	Total	Cd	0	0
			3	3		

- Molecule 7 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	5	Total	Zn	0	0
			5	5		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	L	2	Total	Zn	0	0
			2	2		

- Molecule 8 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	A	1	Total	C	O	0	0
			4	2	2		
8	A	1	Total	C	O	0	0
			4	2	2		
8	A	1	Total	C	O	0	0
			4	2	2		
8	A	1	Total	C	O	0	0
			4	2	2		
8	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	412	Total	O	0	0
			412	412		
9	L	269	Total	O	0	0
			269	269		

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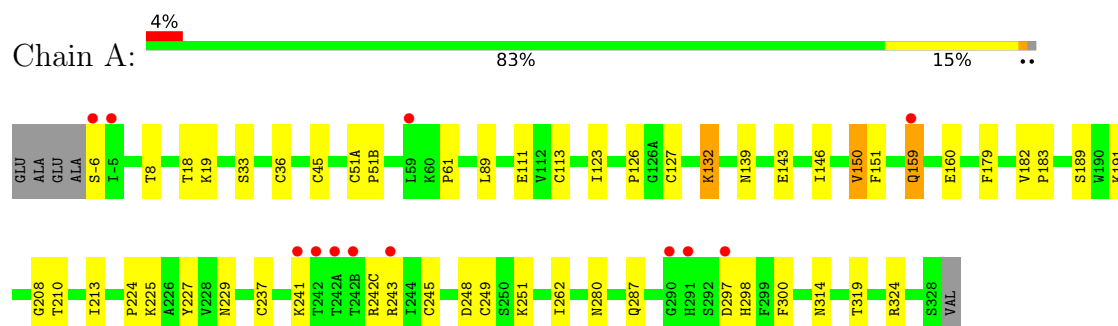
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	H	189	Total 189	O 189	0	0

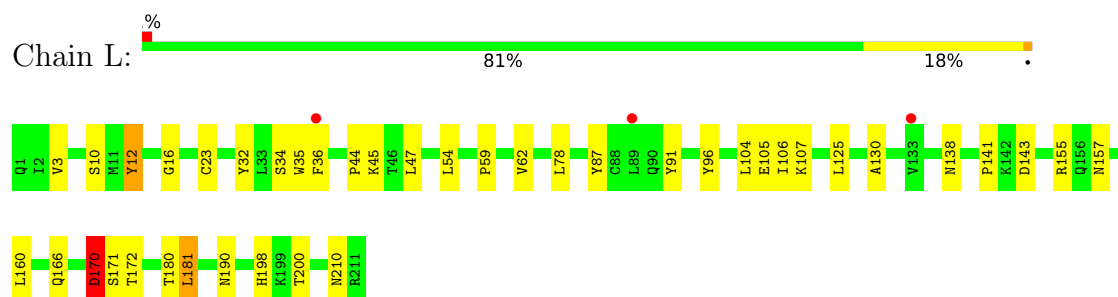
3 Residue-property plots [i](#)

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.

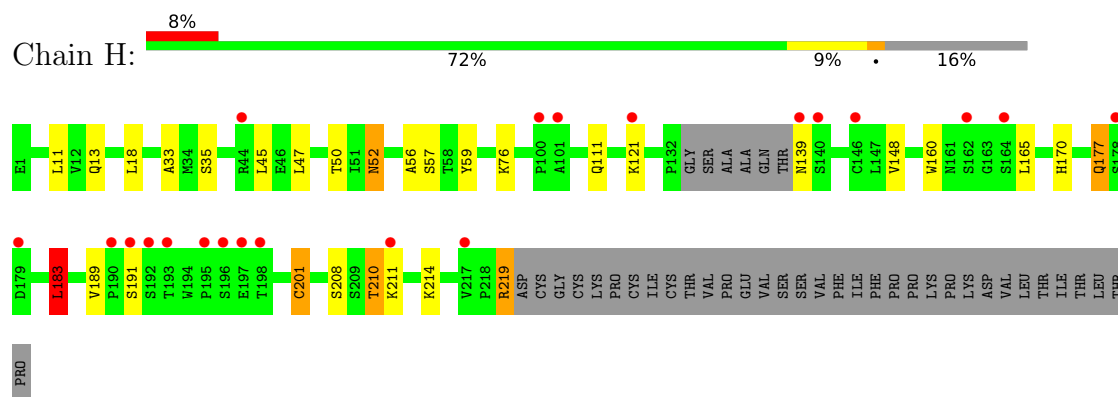
- Molecule 1: Aspartic protease Bla g 2



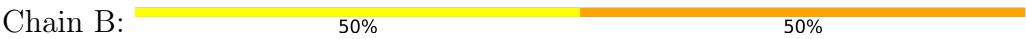
- Molecule 2: 4C3 monoclonal antibody Light Chain



- Molecule 3: 4C3 monoclonal antibody Heavy Chain



- Molecule 4: alpha-D-mannopyranose-(1-6)-beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



MAG1
MAG2
BGLA3
MAIN4

4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	155.21Å 105.28Å 109.15Å 90.00° 132.58° 90.00°	Depositor
Resolution (Å)	29.49 – 1.80 29.49 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.3 (29.49-1.80) 99.3 (29.49-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.49 (at 1.80Å)	Xtriage
Refinement program	REFMAC 5.4.0057	Depositor
R, R_{free}	0.177 , 0.202 0.183 , 0.209	Depositor DCC
R_{free} test set	3593 reflections (3.04%)	wwPDB-VP
Wilson B-factor (Å ²)	26.9	Xtriage
Anisotropy	0.068	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 51.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.012 for -h+k-l,-l,-k 0.000 for -h-k-l,l,k 0.015 for -h-2*l,-k,l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6859	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.54% 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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, NAG, BMA, CD, MAN, 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	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.72	4/2659 (0.2%)	0.71	3/3611 (0.1%)
2	L	0.54	0/1772	0.73	2/2402 (0.1%)
3	H	0.47	0/1655	0.63	1/2261 (0.0%)
All	All	0.61	4/6086 (0.1%)	0.69	6/8274 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	208	GLY	C-N	10.70	1.58	1.34
1	A	8	THR	C-N	10.22	1.57	1.34
1	A	146	ILE	C-N	7.95	1.52	1.34
1	A	61	PRO	C-N	5.51	1.46	1.34

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	183	LEU	CA-CB-CG	7.59	132.75	115.30
1	A	208	GLY	O-C-N	-6.20	112.78	122.70
2	L	170	ASP	CB-CG-OD1	-5.87	113.02	118.30
2	L	170	ASP	CB-CG-OD2	5.66	123.40	118.30
1	A	150[A]	VAL	CB-CA-C	-5.51	100.93	111.40

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	2573	0	2507	48	0
2	L	1710	0	1669	37	0
3	H	1608	0	1587	24	0
4	B	50	0	43	2	0
5	A	14	0	13	2	0
6	A	3	0	0	0	0
7	A	5	0	0	0	0
7	L	2	0	0	0	0
8	A	24	0	36	1	0
9	A	412	0	0	28	0
9	H	189	0	0	7	0
9	L	269	0	0	21	0
All	All	6859	0	5855	106	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 9.

The worst 5 of 106 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:A:213:ILE:HD12	9:A:725:HOH:O	1.38	1.22
1:A:127:CYS:HB2	9:A:784:HOH:O	1.43	1.17
1:A:319:THR:HG22	9:A:739:HOH:O	1.53	1.06
1:A:249:CYS:HB3	9:A:624:HOH:O	1.62	1.00
3:H:35[A]:SER:OG	3:H:50[A]:THR:HG22	1.69	0.92

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	A	335/334 (100%)	329 (98%)	6 (2%)	0	100	100
2	L	219/211 (104%)	215 (98%)	4 (2%)	0	100	100
3	H	211/253 (83%)	209 (99%)	2 (1%)	0	100	100
All	All	765/798 (96%)	753 (98%)	12 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	A	291/286 (102%)	284 (98%)	7 (2%)	49	36
2	L	199/189 (105%)	191 (96%)	8 (4%)	31	16
3	H	183/217 (84%)	168 (92%)	15 (8%)	11	3
All	All	673/692 (97%)	643 (96%)	30 (4%)	28	13

5 of 30 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	L	181	LEU
3	H	210	THR
3	H	52	ASN
3	H	219	ARG
3	H	189	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
3	H	3	GLN
3	H	52	ASN
3	H	170	HIS
3	H	77	ASN
2	L	156	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
4	NAG	B	1	1,4	14,14,15	0.51	0	17,19,21	1.16	1 (5%)
4	NAG	B	2	4	14,14,15	0.52	0	17,19,21	1.08	1 (5%)
4	BMA	B	3	4	11,11,12	0.75	0	15,15,17	1.19	1 (6%)
4	MAN	B	4	4	11,11,12	0.66	0	15,15,17	1.93	4 (26%)

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
4	NAG	B	1	1,4	-	0/6/23/26	0/1/1/1
4	NAG	B	2	4	-	0/6/23/26	0/1/1/1
4	BMA	B	3	4	-	1/2/19/22	0/1/1/1
4	MAN	B	4	4	-	1/2/19/22	0/1/1/1

There are no bond length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
4	B	4	MAN	C1-C2-C3	4.09	114.69	109.67
4	B	4	MAN	C2-C3-C4	3.61	117.14	110.89
4	B	4	MAN	C3-C4-C5	3.42	116.33	110.24
4	B	1	NAG	C1-O5-C5	2.99	116.25	112.19
4	B	3	BMA	C1-O5-C5	2.84	116.04	112.19

There are no chirality outliers.

All (2) torsion outliers are listed below:

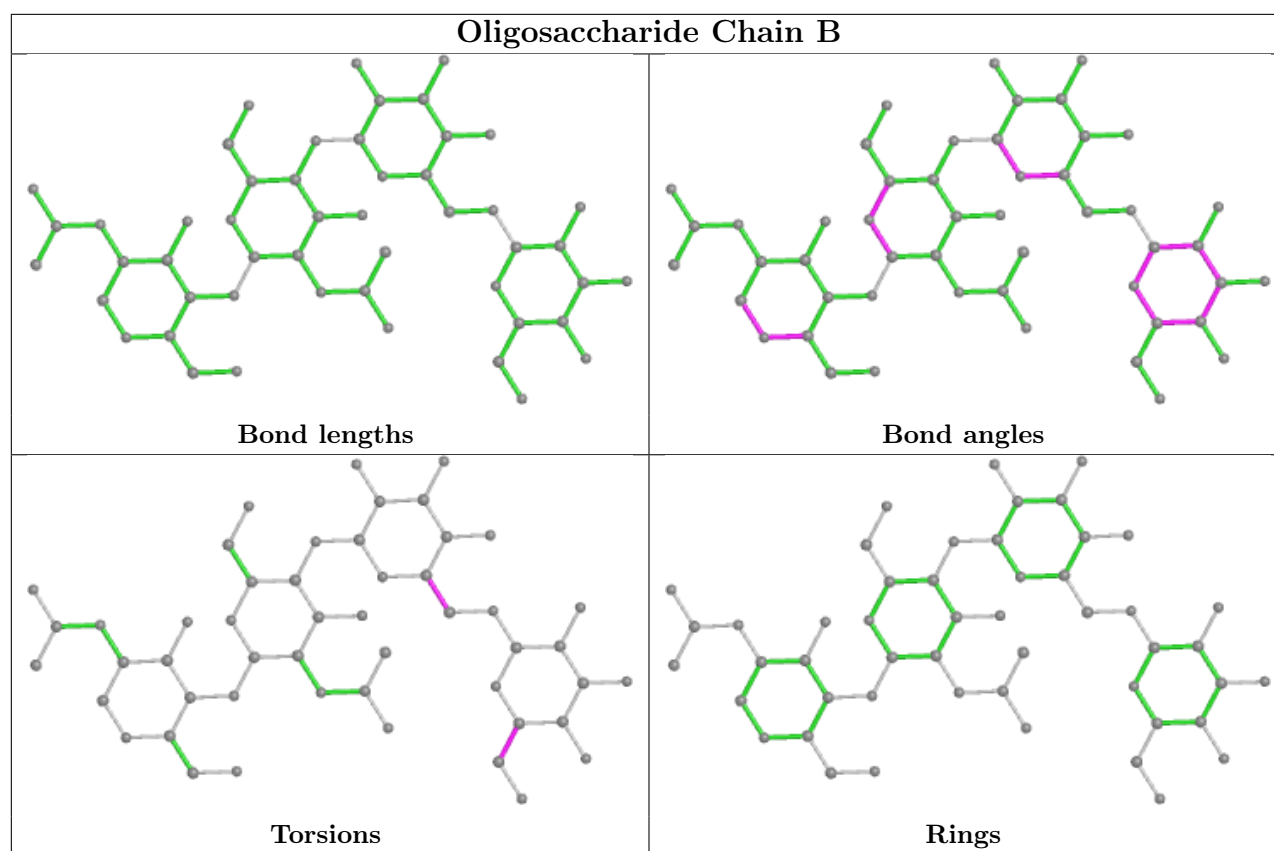
Mol	Chain	Res	Type	Atoms
4	B	4	MAN	O5-C5-C6-O6
4	B	3	BMA	O5-C5-C6-O6

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	2	NAG	1	0
4	B	1	NAG	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](#)

Of 17 ligands modelled in this entry, 10 are monoatomic - leaving 7 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	$\# Z > 2$
8	EDO	A	339	-	3,3,3	0.43	0	2,2,2	0.44	0
8	EDO	A	341	-	3,3,3	0.47	0	2,2,2	0.32	0
8	EDO	A	342	-	3,3,3	0.46	0	2,2,2	0.45	0
8	EDO	A	340	-	3,3,3	0.31	0	2,2,2	0.60	0
8	EDO	A	338	-	3,3,3	0.38	0	2,2,2	0.57	0
5	NAG	A	601	1	14,14,15	0.45	0	17,19,21	0.85	0
8	EDO	A	343	-	3,3,3	0.41	0	2,2,2	0.44	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
8	EDO	A	339	-	-	1/1/1/1	-
8	EDO	A	341	-	-	1/1/1/1	-
8	EDO	A	342	-	-	1/1/1/1	-
8	EDO	A	340	-	-	1/1/1/1	-
8	EDO	A	338	-	-	1/1/1/1	-
5	NAG	A	601	1	-	0/6/23/26	0/1/1/1
8	EDO	A	343	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	A	338	EDO	O1-C1-C2-O2
8	A	340	EDO	O1-C1-C2-O2
8	A	342	EDO	O1-C1-C2-O2
8	A	343	EDO	O1-C1-C2-O2
8	A	341	EDO	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	601	NAG	2	0
8	A	343	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, 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	A	329/334 (98%)	-0.18	12 (3%) 42 37	20, 28, 43, 67	1 (0%)
2	L	211/211 (100%)	0.05	3 (1%) 75 72	26, 32, 39, 45	1 (0%)
3	H	213/253 (84%)	0.53	21 (9%) 7 5	27, 36, 67, 73	0
All	All	753/798 (94%)	0.08	36 (4%) 30 25	20, 31, 56, 73	2 (0%)

The worst 5 of 36 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	242(B)	THR	7.4
1	A	-6	SER	7.1
1	A	242(A)	THR	6.9
1	A	-5	ILE	5.1
1	A	241	LYS	4.8

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, 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.

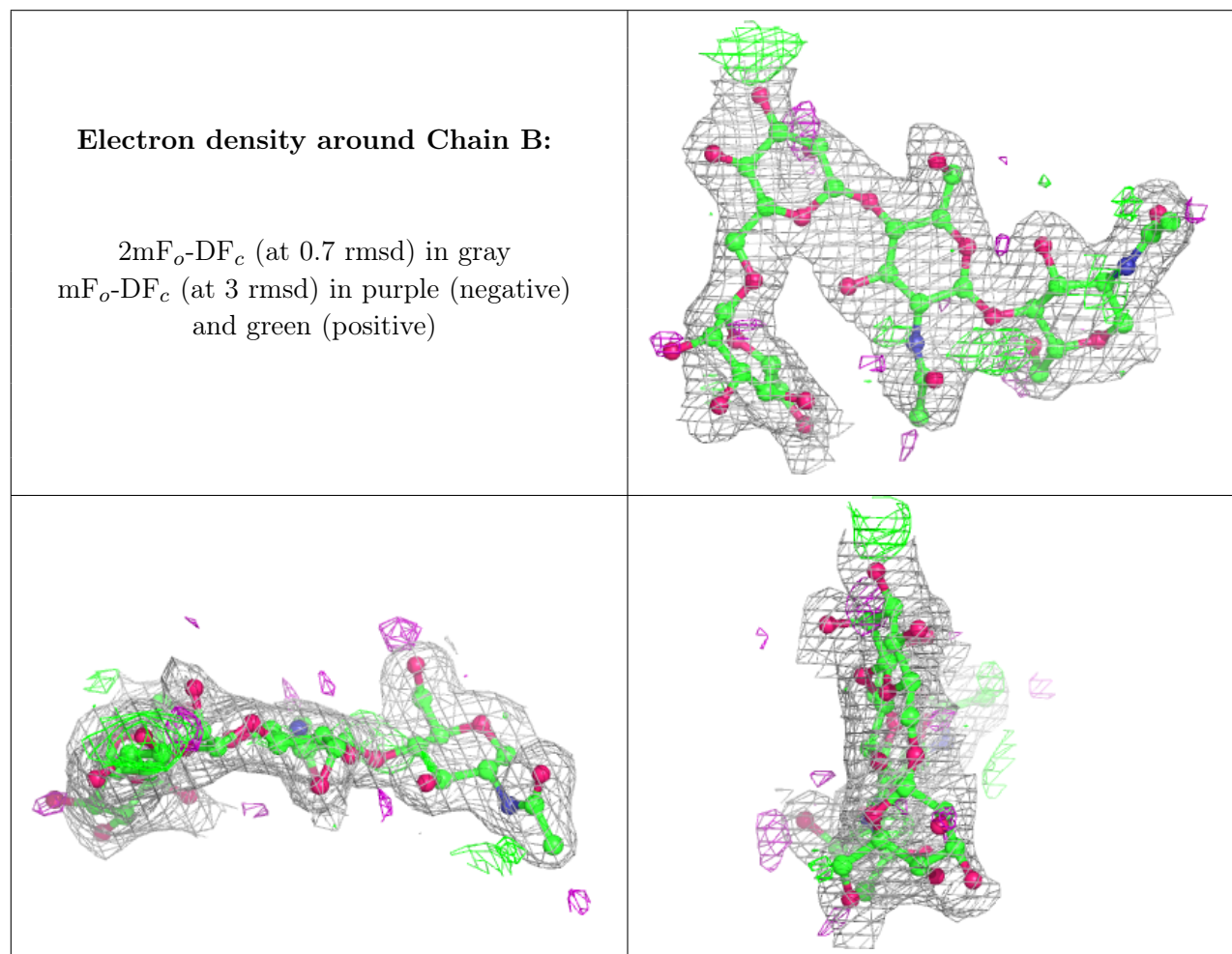
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	MAN	B	4	11/12	0.71	0.37	76,77,78,78	0
4	BMA	B	3	11/12	0.75	0.25	59,62,68,73	0
4	NAG	B	2	14/15	0.93	0.16	40,47,49,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	NAG	B	1	14/15	0.95	0.09	26,29,36,37	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 ⓘ

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(\AA^2)	Q<0.9
7	ZN	A	336	1/1	0.62	0.09	95,95,95,95	0
8	EDO	A	341	4/4	0.78	0.30	76,76,76,77	0
8	EDO	A	343	4/4	0.79	0.31	66,67,68,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
8	EDO	A	342	4/4	0.80	0.26	54,57,58,58	0
8	EDO	A	339	4/4	0.84	0.22	56,58,58,59	0
5	NAG	A	601	14/15	0.84	0.20	45,49,55,56	0
8	EDO	A	338	4/4	0.88	0.19	64,64,65,67	0
8	EDO	A	340	4/4	0.91	0.23	62,62,62,62	0
7	ZN	A	337	1/1	0.95	0.04	69,69,69,69	0
7	ZN	L	212	1/1	0.98	0.04	53,53,53,53	1
7	ZN	L	213	1/1	0.98	0.04	58,58,58,58	0
7	ZN	A	334	1/1	0.99	0.07	32,32,32,32	1
7	ZN	A	335	1/1	0.99	0.12	35,35,35,35	1
6	CD	A	330	1/1	0.99	0.07	24,24,24,24	0
6	CD	A	331	1/1	0.99	0.07	21,21,21,21	1
6	CD	A	332	1/1	1.00	0.04	28,28,28,28	0
7	ZN	A	333	1/1	1.00	0.05	22,22,22,22	0

6.5 Other polymers [i](#)

There are no such residues in this entry.