



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 16, 2023 – 11:49 am GMT

PDB ID : 4BQ1
Title : Crystal structure of of LamAcat from Zobellia galactanivorans
Authors : Labourel, A.; Jam, M.; Jeudy, A.; Michel, G.; Czjzek, M.
Deposited on : 2013-05-29
Resolution : 1.50 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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.4, 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

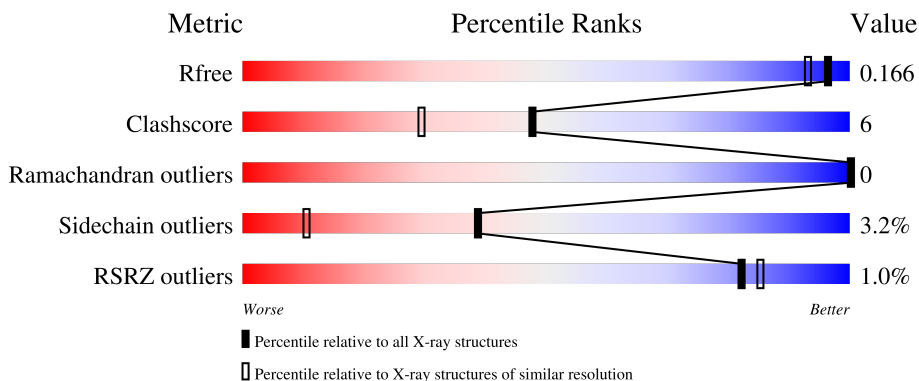
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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	2936 (1.50-1.50)
Clashscore	141614	3144 (1.50-1.50)
Ramachandran outliers	138981	3066 (1.50-1.50)
Sidechain outliers	138945	3064 (1.50-1.50)
RSRZ outliers	127900	2884 (1.50-1.50)

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	256	 2% (red), 82% (green), 13% (yellow), .. (grey)
1	B	256	 82% (green), 14% (yellow), .. (grey)

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4635 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 ENDO-1,3-BETA-GLUCANASE, FAMILY GH16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	251	Total	C	N	O	S	0	4	0
			2048	1304	335	405	4			
1	B	251	Total	C	N	O	S	0	5	0
			2047	1302	334	408	3			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	128	HIS	-	expression tag	UNP G0L5X4
A	129	HIS	-	expression tag	UNP G0L5X4
A	130	HIS	-	expression tag	UNP G0L5X4
A	131	HIS	-	expression tag	UNP G0L5X4
A	132	HIS	-	expression tag	UNP G0L5X4
A	133	HIS	-	expression tag	UNP G0L5X4
A	134	GLY	-	expression tag	UNP G0L5X4
A	135	SER	-	expression tag	UNP G0L5X4
B	128	HIS	-	expression tag	UNP G0L5X4
B	129	HIS	-	expression tag	UNP G0L5X4
B	130	HIS	-	expression tag	UNP G0L5X4
B	131	HIS	-	expression tag	UNP G0L5X4
B	132	HIS	-	expression tag	UNP G0L5X4
B	133	HIS	-	expression tag	UNP G0L5X4
B	134	GLY	-	expression tag	UNP G0L5X4
B	135	SER	-	expression tag	UNP G0L5X4

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Ca	0	0
			1	1		
2	B	1	Total	Ca	0	0
			1	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

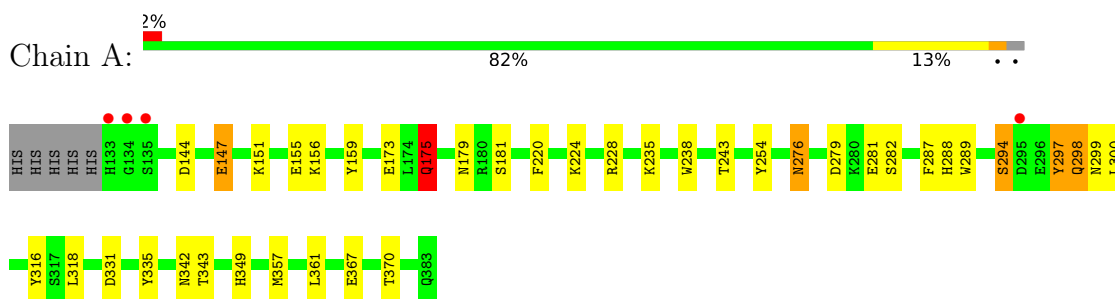
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	312	Total	O	0	0
			312	312		
4	B	214	Total	O	0	0
			214	214		

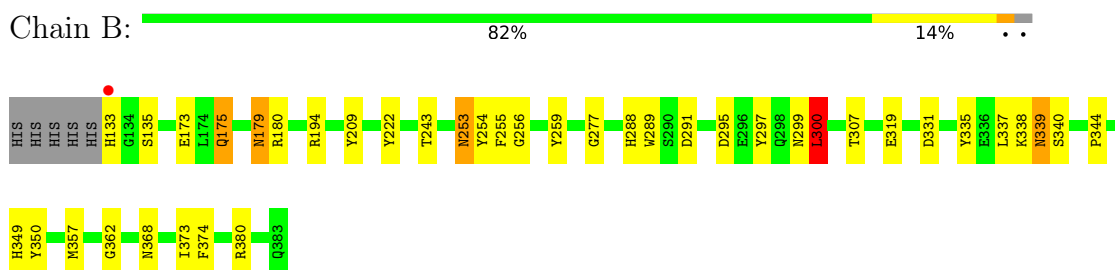
3 Residue-property plots [i](#)

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: ENDO-1,3-BETA-GLUCANASE, FAMILY GH16



- Molecule 1: ENDO-1,3-BETA-GLUCANASE, FAMILY GH16



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	44.56Å 76.56Å 142.12Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	71.06 – 1.50 42.52 – 1.50	Depositor EDS
% Data completeness (in resolution range)	99.1 (71.06-1.50) 99.1 (42.52-1.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.19 (at 1.50Å)	Xtrriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.138 , 0.166 0.138 , 0.166	Depositor DCC
R_{free} test set	3930 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	13.1	Xtrriage
Anisotropy	0.649	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 46.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	4635	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.45% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CA, GOL

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	1.51	11/2119 (0.5%)	1.24	9/2881 (0.3%)
1	B	1.36	7/2124 (0.3%)	1.21	8/2890 (0.3%)
All	All	1.44	18/4243 (0.4%)	1.23	17/5771 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	147[A]	GLU	CG-CD	-20.20	1.21	1.51
1	A	147[B]	GLU	CG-CD	-20.20	1.21	1.51
1	A	282	SER	CB-OG	-10.60	1.28	1.42
1	A	281	GLU	CG-CD	-6.71	1.41	1.51
1	A	343	THR	CB-CG2	-6.53	1.30	1.52
1	B	135	SER	C-N	-6.35	1.19	1.34
1	A	316	TYR	CG-CD1	5.88	1.46	1.39
1	B	350	TYR	CE2-CZ	5.88	1.46	1.38
1	B	289	TRP	CD2-CE2	5.73	1.48	1.41
1	A	367	GLU	CD-OE2	5.64	1.31	1.25
1	B	222	TYR	CE1-CZ	5.51	1.45	1.38
1	B	289	TRP	CZ3-CH2	5.49	1.48	1.40
1	A	220	PHE	CG-CD2	5.30	1.46	1.38
1	A	367	GLU	CG-CD	5.25	1.59	1.51
1	B	259	TYR	CD2-CE2	5.14	1.47	1.39
1	A	297	TYR	CE2-CZ	5.14	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	295	ASP	CB-CG	5.06	1.62	1.51
1	A	254	TYR	CE2-CZ	-5.03	1.32	1.38

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	180	ARG	NE-CZ-NH2	-10.46	115.07	120.30
1	B	380	ARG	NE-CZ-NH2	-8.37	116.11	120.30
1	A	228	ARG	NE-CZ-NH2	-7.64	116.48	120.30
1	B	335	TYR	CG-CD1-CE1	-6.58	116.04	121.30
1	A	144	ASP	CB-CG-OD2	6.30	123.97	118.30
1	B	300	LEU	CA-CB-CG	6.11	129.35	115.30
1	A	331	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	B	291	ASP	CB-CG-OD2	-5.81	113.07	118.30
1	B	374	PHE	CB-CG-CD2	-5.42	117.00	120.80
1	A	298	GLN	CB-CA-C	-5.42	99.56	110.40
1	B	300	LEU	CB-CG-CD2	-5.41	101.81	111.00
1	A	335	TYR	CZ-CE2-CD2	-5.40	114.94	119.80
1	A	370	THR	CA-CB-CG2	-5.34	104.93	112.40
1	A	159	TYR	CB-CG-CD1	-5.27	117.84	121.00
1	A	298	GLN	CA-CB-CG	5.18	124.79	113.40
1	A	287	PHE	CB-CG-CD2	-5.11	117.22	120.80
1	B	209	TYR	CG-CD1-CE1	5.01	125.31	121.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	175	GLN	Peptide

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	2048	0	1897	23	0
1	B	2047	0	1890	25	0
2	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	1	0	0	0	0
3	A	6	0	7	0	0
3	B	6	0	8	0	0
4	A	312	0	0	9	0
4	B	214	0	0	3	0
All	All	4635	0	3802	48	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 6.

All (48) 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:147[A]:GLU:HG2	4:A:2021:HOH:O	1.39	1.17
1:A:147[B]:GLU:HG2	4:A:2021:HOH:O	1.41	1.17
1:A:294:SER:HB3	4:A:2234:HOH:O	1.58	1.02
1:A:181:SER:HB2	4:A:2079:HOH:O	1.71	0.91
1:B:253:ASN:C	1:B:253:ASN:HD22	1.75	0.89
1:B:133:HIS:HE1	1:B:331:ASP:OD1	1.67	0.78
1:A:155:GLU:HG2	4:A:2077:HOH:O	1.85	0.76
1:B:173:GLU:HB3	1:B:175:GLN:HE22	1.50	0.74
1:A:288:HIS:HD2	1:A:297:TYR:OH	1.69	0.74
1:B:253:ASN:HD21	1:B:256:GLY:H	1.34	0.73
1:A:294:SER:CB	4:A:2234:HOH:O	2.28	0.68
1:B:175:GLN:NE2	1:B:175:GLN:H	1.93	0.66
1:B:253:ASN:HD22	1:B:254:TYR:N	1.95	0.65
1:B:344:PRO:HG3	4:B:2132:HOH:O	1.97	0.63
1:A:173:GLU:HB3	1:A:175:GLN:HE22	1.64	0.63
1:A:289:TRP:CE2	1:A:298:GLN:HG3	2.37	0.60
1:A:175:GLN:NE2	1:A:357:MET:H	2.02	0.57
1:B:338:LYS:HE2	4:B:2189:HOH:O	2.04	0.57
1:A:175:GLN:HE21	1:A:357:MET:H	1.52	0.56
1:A:276:ASN:ND2	1:A:279:ASP:H	2.04	0.56
1:B:179:ASN:HD22	1:B:179:ASN:C	2.10	0.54
1:B:253:ASN:C	1:B:253:ASN:ND2	2.51	0.54
1:B:368:ASN:HB2	4:B:2204:HOH:O	2.07	0.54
1:B:300:LEU:HD11	1:B:337:LEU:HD13	1.92	0.52
1:A:276:ASN:HD22	1:A:276:ASN:C	2.13	0.52
1:B:133:HIS:HD2	1:B:319:GLU:OE2	1.92	0.51
1:A:288:HIS:CD2	1:A:297:TYR:OH	2.59	0.50
1:B:288:HIS:HD2	1:B:297:TYR:OH	1.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:THR:OG1	1:A:349:HIS:HD2	1.95	0.49
1:A:156[A]:LYS:HE3	4:A:2011:HOH:O	2.13	0.48
1:A:235:LYS:HE3	4:A:2166:HOH:O	2.14	0.48
1:A:238:TRP:CE2	1:A:361:LEU:HB2	2.50	0.47
1:B:339:ASN:HD22	1:B:340:SER:H	1.62	0.47
1:B:133:HIS:CE1	1:B:331:ASP:OD1	2.57	0.46
1:B:253:ASN:ND2	1:B:256:GLY:H	2.07	0.46
1:A:299:ASN:ND2	4:A:2237:HOH:O	2.49	0.45
1:A:224:LYS:HA	1:A:318:LEU:O	2.18	0.44
1:B:253:ASN:ND2	1:B:255:PHE:H	2.14	0.44
1:A:276:ASN:HD21	1:A:279:ASP:H	1.65	0.42
1:B:243:THR:OG1	1:B:349:HIS:HD2	2.03	0.42
1:B:175:GLN:NE2	1:B:357:MET:H	2.17	0.41
1:B:253:ASN:HD21	1:B:256:GLY:N	2.10	0.41
1:B:194:ARG:HB2	1:B:373:ILE:HD13	2.03	0.41
1:B:277:GLY:HA3	1:B:362:GLY:O	2.21	0.41
1:B:253:ASN:ND2	1:B:255:PHE:N	2.69	0.41
1:A:175:GLN:NE2	1:A:175:GLN:H	2.19	0.41
1:A:276:ASN:HD21	1:A:279:ASP:N	2.19	0.40
1:B:179:ASN:C	1:B:179:ASN:ND2	2.75	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	Percentiles	
1	A	253/256 (99%)	246 (97%)	7 (3%)	0	100	100
1	B	254/256 (99%)	246 (97%)	8 (3%)	0	100	100
All	All	507/512 (99%)	492 (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	Outliers	Percentiles	
1	A	220/221 (100%)	213 (97%)	7 (3%)	39	10
1	B	221/221 (100%)	214 (97%)	7 (3%)	39	10
All	All	441/442 (100%)	427 (97%)	14 (3%)	39	10

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	151	LYS
1	A	175	GLN
1	A	179	ASN
1	A	276	ASN
1	A	294	SER
1	A	300	LEU
1	A	342	ASN
1	B	175	GLN
1	B	179	ASN
1	B	253	ASN
1	B	299	ASN
1	B	300	LEU
1	B	307	THR
1	B	339	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (20) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	175	GLN
1	A	179	ASN
1	A	215	ASN
1	A	276	ASN
1	A	288	HIS
1	A	298	GLN
1	A	342	ASN
1	A	349	HIS

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Mol	Chain	Res	Type
1	A	383	GLN
1	B	133	HIS
1	B	175	GLN
1	B	179	ASN
1	B	215	ASN
1	B	253	ASN
1	B	288	HIS
1	B	298	GLN
1	B	339	ASN
1	B	342	ASN
1	B	349	HIS
1	B	383	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](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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
3	GOL	A	401	-	5,5,5	1.81	1 (20%)	5,5,5	1.40	1 (20%)
3	GOL	B	401	-	5,5,5	2.02	1 (20%)	5,5,5	1.46	1 (20%)

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	GOL	A	401	-	-	0/4/4/4	-
3	GOL	B	401	-	-	0/4/4/4	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	401	GOL	O2-C2	4.11	1.55	1.43
3	A	401	GOL	O2-C2	3.12	1.52	1.43

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	401	GOL	C3-C2-C1	-2.08	103.63	111.70
3	B	401	GOL	O2-C2-C1	2.00	117.94	109.12

There are no chirality outliers.

There are no torsion outliers.

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	135:SER	C	136:ALA	N	1.19

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	251/256 (98%)	-0.53	4 (1%) 72 77	7, 12, 26, 45	0
1	B	251/256 (98%)	-0.36	1 (0%) 92 94	10, 18, 32, 44	2 (0%)
All	All	502/512 (98%)	-0.45	5 (0%) 82 85	7, 15, 31, 45	2 (0%)

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	134	GLY	2.8
1	A	133	HIS	2.6
1	A	295	ASP	2.6
1	B	133	HIS	2.4
1	A	135	SER	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](#)

There are no monosaccharides in this entry.

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, 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
3	GOL	B	401	6/6	0.95	0.07	14,15,21,23	0
3	GOL	A	401	6/6	0.96	0.07	12,12,19,27	0
2	CA	B	400	1/1	0.99	0.07	28,28,28,28	1
2	CA	A	400	1/1	1.00	0.07	16,16,16,16	1

6.5 Other polymers [i](#)

There are no such residues in this entry.