



Full wwPDB X-ray Structure Validation Report i

Oct 29, 2024 – 06:21 AM EDT

PDB ID : 3ROT
Title : Crystal structure of ABC sugar transporter (periplasmic sugar binding protein) from Legionella pneumophila
Authors : Eswaramoorthy, S.; Almo, S.C.; Swaminathan, S.; New York Structural Genomics Research Consortium (NYSGRC)
Deposited on : 2011-04-26
Resolution : 1.91 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](#) i) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.003 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

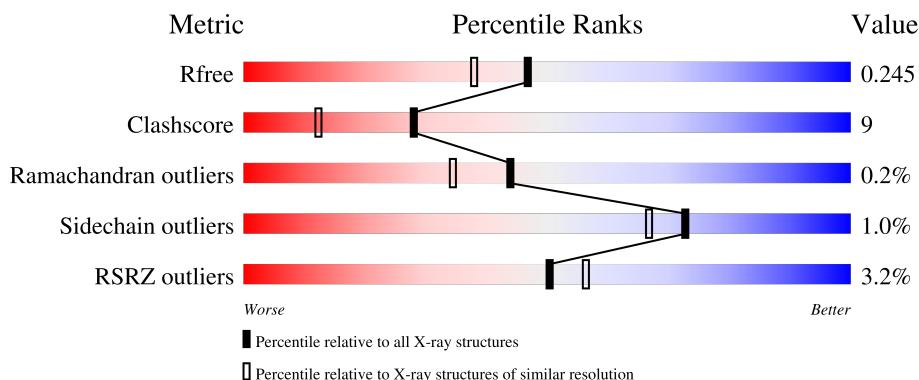
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

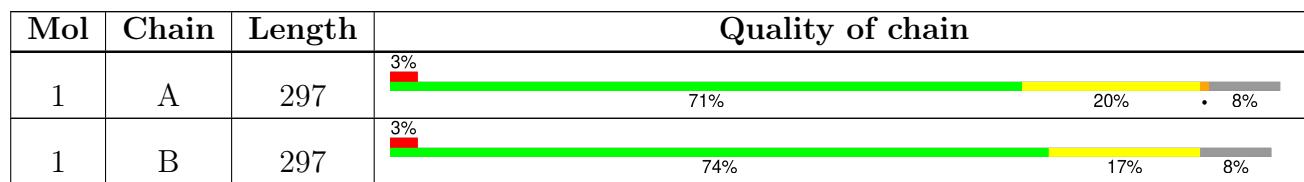
The reported resolution of this entry is 1.91 Å.

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}	164625	1028 (1.92-1.92)
Clashscore	180529	1100 (1.92-1.92)
Ramachandran outliers	177936	1087 (1.92-1.92)
Sidechain outliers	177891	1087 (1.92-1.92)
RSRZ outliers	164620	1028 (1.92-1.92)

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.



2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 4411 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 ABC sugar transporter, periplasmic sugar binding protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	273	Total	C 2157	N 1390	O 360	S 401	Se 1	0	0	0
1	B	272	Total	C 2151	N 1385	O 361	S 400	Se 1	0	0	0

There are 48 discrepancies between the modelled and reference sequences:

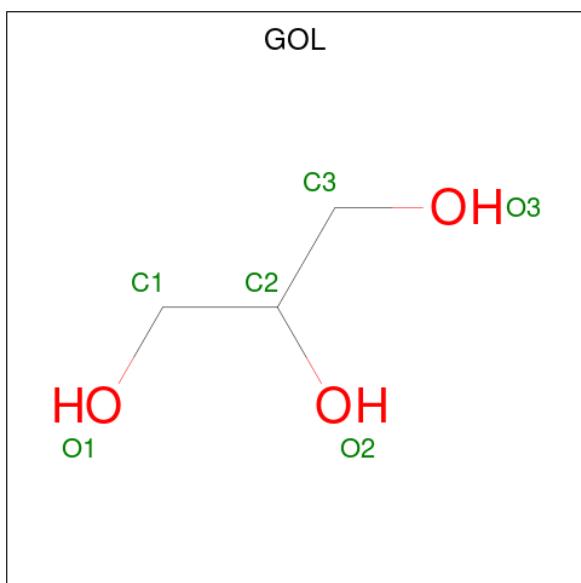
Chain	Residue	Modelled	Actual	Comment	Reference
A	20	MSE	-	expression tag	UNP Q5ZZ27
A	21	VAL	-	expression tag	UNP Q5ZZ27
A	295	ALA	-	expression tag	UNP Q5ZZ27
A	296	GLU	-	expression tag	UNP Q5ZZ27
A	297	ASN	-	expression tag	UNP Q5ZZ27
A	298	LEU	-	expression tag	UNP Q5ZZ27
A	299	TYR	-	expression tag	UNP Q5ZZ27
A	300	PHE	-	expression tag	UNP Q5ZZ27
A	301	GLN	-	expression tag	UNP Q5ZZ27
A	302	SER	-	expression tag	UNP Q5ZZ27
A	303	HIS	-	expression tag	UNP Q5ZZ27
A	304	HIS	-	expression tag	UNP Q5ZZ27
A	305	HIS	-	expression tag	UNP Q5ZZ27
A	306	HIS	-	expression tag	UNP Q5ZZ27
A	307	HIS	-	expression tag	UNP Q5ZZ27
A	308	HIS	-	expression tag	UNP Q5ZZ27
A	309	TRP	-	expression tag	UNP Q5ZZ27
A	310	SER	-	expression tag	UNP Q5ZZ27
A	311	HIS	-	expression tag	UNP Q5ZZ27
A	312	PRO	-	expression tag	UNP Q5ZZ27
A	313	GLN	-	expression tag	UNP Q5ZZ27
A	314	PHE	-	expression tag	UNP Q5ZZ27
A	315	GLU	-	expression tag	UNP Q5ZZ27
A	316	LYS	-	expression tag	UNP Q5ZZ27
B	20	MSE	-	expression tag	UNP Q5ZZ27

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Chain	Residue	Modelled	Actual	Comment	Reference
B	21	VAL	-	expression tag	UNP Q5ZZ27
B	295	ALA	-	expression tag	UNP Q5ZZ27
B	296	GLU	-	expression tag	UNP Q5ZZ27
B	297	ASN	-	expression tag	UNP Q5ZZ27
B	298	LEU	-	expression tag	UNP Q5ZZ27
B	299	TYR	-	expression tag	UNP Q5ZZ27
B	300	PHE	-	expression tag	UNP Q5ZZ27
B	301	GLN	-	expression tag	UNP Q5ZZ27
B	302	SER	-	expression tag	UNP Q5ZZ27
B	303	HIS	-	expression tag	UNP Q5ZZ27
B	304	HIS	-	expression tag	UNP Q5ZZ27
B	305	HIS	-	expression tag	UNP Q5ZZ27
B	306	HIS	-	expression tag	UNP Q5ZZ27
B	307	HIS	-	expression tag	UNP Q5ZZ27
B	308	HIS	-	expression tag	UNP Q5ZZ27
B	309	TRP	-	expression tag	UNP Q5ZZ27
B	310	SER	-	expression tag	UNP Q5ZZ27
B	311	HIS	-	expression tag	UNP Q5ZZ27
B	312	PRO	-	expression tag	UNP Q5ZZ27
B	313	GLN	-	expression tag	UNP Q5ZZ27
B	314	PHE	-	expression tag	UNP Q5ZZ27
B	315	GLU	-	expression tag	UNP Q5ZZ27
B	316	LYS	-	expression tag	UNP Q5ZZ27

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

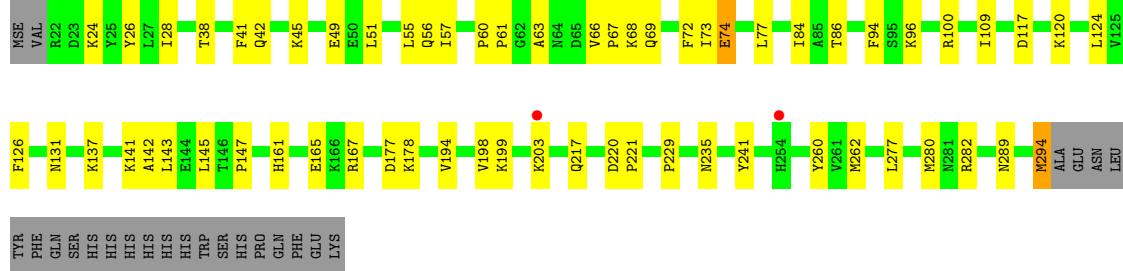
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	50	Total O 50 50	0	0
3	B	41	Total O 41 41	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: ABC sugar transporter, periplasmic sugar binding protein



- Molecule 1: ABC sugar transporter, periplasmic sugar binding protein



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	48.69Å 117.86Å 54.61Å 90.00° 107.39° 90.00°	Depositor
Resolution (Å)	43.23 – 1.91 43.23 – 1.91	Depositor EDS
% Data completeness (in resolution range)	92.6 (43.23-1.91) 92.7 (43.23-1.91)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ ¹	2.74 (at 1.91Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R , R_{free}	0.220 , 0.254 0.210 , 0.245	Depositor DCC
R_{free} test set	1716 reflections (4.08%)	wwPDB-VP
Wilson B-factor (Å ²)	22.8	Xtriage
Anisotropy	0.552	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 29.3	EDS
L-test for twinning ²	$< L > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4411	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.68% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: 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	0.34	0/2202	0.58	0/2985
1	B	0.33	0/2197	0.59	0/2981
All	All	0.34	0/4399	0.59	0/5966

There are no bond length outliers.

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	2157	0	2190	40	0
1	B	2151	0	2181	38	0
2	A	6	0	8	0	0
2	B	6	0	8	0	0
3	A	50	0	0	1	0
3	B	41	0	0	0	0
All	All	4411	0	4387	77	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.

All (77) 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:280:MSE:HE2	1:B:287:PRO:HG2	1.49	0.93
1:A:126:PHE:H	1:A:289:ASN:HD22	1.18	0.91
1:B:146:THR:HG21	1:B:239:GLN:HG3	1.60	0.82
1:B:280:MSE:HE2	1:B:287:PRO:CG	2.15	0.77
1:A:126:PHE:H	1:A:289:ASN:ND2	1.91	0.69
1:B:132:LEU:HD22	1:B:136:LYS:HE2	1.75	0.69
1:A:131:ASN:ND2	1:A:167:ARG:HE	1.90	0.68
1:B:82:SER:HB3	1:B:281:ASN:OD1	1.97	0.65
1:B:169:TYR:O	1:B:173:THR:HG23	2.00	0.62
1:B:109:ILE:HD12	1:B:277:LEU:HG	1.84	0.59
1:B:134:ALA:HA	1:B:137:LYS:HE3	1.86	0.58
1:B:151:ARG:HG2	1:B:208:THR:HA	1.85	0.58
1:A:143:LEU:HD13	1:A:178:LYS:HG3	1.84	0.58
1:A:194:VAL:O	1:A:198:VAL:HG23	2.03	0.58
1:A:109:ILE:HD12	1:A:277:LEU:HG	1.86	0.57
1:A:49:GLU:HG3	3:A:336:HOH:O	2.04	0.56
1:A:63:ALA:HB1	1:A:217:GLN:NE2	2.20	0.56
1:B:132:LEU:CD2	1:B:136:LYS:HE2	2.37	0.54
1:A:41:PHE:O	1:A:45:LYS:HG3	2.08	0.53
1:A:55:LEU:HD23	1:A:55:LEU:C	2.29	0.53
1:B:151:ARG:CG	1:B:208:THR:HA	2.39	0.52
1:A:124:LEU:CD1	1:A:280:MSE:HE1	2.39	0.52
1:A:199:LYS:O	1:A:203:LYS:HG3	2.09	0.52
1:A:55:LEU:HD23	1:A:55:LEU:O	2.09	0.52
1:A:143:LEU:CD1	1:A:178:LYS:HG3	2.41	0.51
1:A:161:HIS:O	1:A:165:GLU:HG3	2.11	0.51
1:B:64:ASN:ND2	1:B:158:GLN:NE2	2.59	0.50
1:B:114:ARG:HH11	1:B:114:ARG:HG3	1.78	0.49
1:B:146:THR:OG1	1:B:210:ILE:HD11	2.13	0.49
1:A:117:ASP:OD2	1:A:120:LYS:HG3	2.13	0.48
1:B:143:LEU:HD21	1:B:180:ILE:HG13	1.95	0.48
1:A:38:THR:CG2	1:B:191:PRO:HB2	2.44	0.47
1:B:63:ALA:HB1	1:B:217:GLN:HE22	1.78	0.47
1:B:143:LEU:CD1	1:B:178:LYS:HG3	2.45	0.47
1:B:220:ASP:HB2	1:B:221:PRO:HD3	1.96	0.47
1:B:134:ALA:HA	1:B:137:LYS:CE	2.44	0.47
1:B:151:ARG:NH1	1:B:181:PHE:CE2	2.83	0.47
1:B:64:ASN:ND2	1:B:158:GLN:HE22	2.12	0.47
1:A:55:LEU:HD21	1:A:57:ILE:HG13	1.96	0.46
1:B:146:THR:N	1:B:147:PRO:HD3	2.30	0.46
1:A:124:LEU:HD11	1:A:280:MSE:HE1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:LEU:HD21	1:A:57:ILE:CG1	2.46	0.46
1:B:88:ILE:HD13	1:B:98:LEU:HD11	1.99	0.45
1:A:26:TYR:HB2	1:A:84:ILE:HG12	1.98	0.45
1:B:111:VAL:O	1:B:112:ASP:HB3	2.16	0.45
1:B:146:THR:HG21	1:B:239:GLN:CG	2.39	0.45
1:B:280:MSE:CE	1:B:287:PRO:HG2	2.33	0.45
1:B:88:ILE:HB	1:B:115:PRO:HD3	1.99	0.45
1:A:145:LEU:C	1:A:147:PRO:HD3	2.37	0.44
1:B:199:LYS:HE3	1:B:232:TYR:O	2.17	0.44
1:A:60:PRO:HA	1:A:61:PRO:HD3	1.87	0.44
1:A:73:ILE:O	1:A:77:LEU:HG	2.17	0.43
1:B:151:ARG:NH1	1:B:205:HIS:CD2	2.87	0.43
1:B:162:ILE:O	1:B:166:LYS:HG3	2.18	0.43
1:B:89:PRO:HA	1:B:113:THR:HG21	2.00	0.43
1:A:51:LEU:O	1:A:282:ARG:NH2	2.41	0.43
1:B:114:ARG:HG3	1:B:114:ARG:NH1	2.33	0.43
1:B:168:ALA:O	1:B:172:LYS:HG3	2.18	0.43
1:A:142:ALA:HA	1:A:241:TYR:CZ	2.54	0.42
1:B:22:ARG:HG2	1:B:54:ASP:OD2	2.19	0.42
1:A:69:GLN:HG2	1:A:94:PHE:HE1	1.85	0.42
1:A:74:GLU:HG3	1:A:100:ARG:NH1	2.34	0.42
1:A:66:VAL:N	1:A:67:PRO:HD2	2.35	0.41
1:A:294:MSE:H	1:A:294:MSE:HG2	1.48	0.41
1:A:220:ASP:HB2	1:A:221:PRO:CD	2.51	0.41
1:A:42:GLN:NE2	1:A:42:GLN:HA	2.35	0.41
1:A:124:LEU:HD13	1:A:280:MSE:HE1	2.02	0.41
1:A:24:LYS:NZ	1:A:56:GLN:HE21	2.18	0.41
1:A:137:LYS:HG2	1:A:262:MSE:HE1	2.03	0.41
1:B:63:ALA:HB1	1:B:217:GLN:NE2	2.36	0.41
1:B:142:ALA:HA	1:B:241:TYR:CZ	2.56	0.41
1:A:42:GLN:NE2	1:A:45:LYS:HE3	2.36	0.40
1:A:28:ILE:O	1:A:86:THR:HA	2.21	0.40
1:A:68:LYS:HG3	1:A:72:PHE:CE2	2.56	0.40
1:A:229:PRO:HB2	1:A:235:ASN:OD1	2.20	0.40
1:A:141:LYS:HG2	1:A:260:TYR:CD2	2.56	0.40
1:B:182:PHE:CD1	1:B:182:PHE:C	2.94	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	271/297 (91%)	264 (97%)	7 (3%)	0	100 100
1	B	270/297 (91%)	261 (97%)	8 (3%)	1 (0%)	30 19
All	All	541/594 (91%)	525 (97%)	15 (3%)	1 (0%)	44 34

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	244	ASP

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	240/258 (93%)	236 (98%)	4 (2%)	56 45
1	B	239/258 (93%)	238 (100%)	1 (0%)	89 88
All	All	479/516 (93%)	474 (99%)	5 (1%)	73 67

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	74	GLU
1	A	96	LYS
1	A	177	ASP
1	A	294	MSE
1	B	105	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	42	GLN
1	A	56	GLN
1	A	121	ASN
1	A	131	ASN
1	A	205	HIS
1	A	286	ASN
1	A	289	ASN
1	B	64	ASN
1	B	121	ASN
1	B	205	HIS
1	B	217	GLN
1	B	248	ASN
1	B	264	GLN
1	B	281	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 [\(i\)](#)

There are no oligosaccharides in this entry.

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).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GOL	B	317	-	5,5,5	0.36	0	5,5,5	0.44	0
2	GOL	A	317	-	5,5,5	0.43	0	5,5,5	0.53	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
2	GOL	B	317	-	-	3/4/4/4	-
2	GOL	A	317	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	317	GOL	C1-C2-C3-O3
2	B	317	GOL	C1-C2-C3-O3
2	A	317	GOL	O2-C2-C3-O3
2	B	317	GOL	O2-C2-C3-O3
2	B	317	GOL	O1-C1-C2-O2

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, 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	268/297 (90%)	0.27	8 (2%) 52 58	19, 32, 47, 60	0
1	B	268/297 (90%)	0.37	9 (3%) 48 55	20, 34, 53, 62	0
All	All	536/594 (90%)	0.32	17 (3%) 50 56	19, 32, 50, 62	0

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	63	ALA	5.5
1	B	34	ASP	3.8
1	A	62	GLY	3.7
1	B	181	PHE	3.1
1	A	254	HIS	2.8
1	A	66	VAL	2.8
1	A	55	LEU	2.7
1	B	146	THR	2.6
1	B	177	ASP	2.6
1	B	63	ALA	2.5
1	B	104	LEU	2.5
1	B	147	PRO	2.3
1	B	133	LEU	2.3
1	A	64	ASN	2.1
1	A	74	GLU	2.1
1	B	148	SER	2.1
1	A	203	LYS	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(Å ²)	Q<0.9
2	GOL	A	317	6/6	0.94	0.08	23,24,25,27	0
2	GOL	B	317	6/6	0.94	0.07	22,24,25,26	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.