



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 15, 2026 – 12:37 PM UTC

PDB ID : 4Y42 / pdb_00004y42
Title : Cyanase (CynS) from *Serratia proteamaculans*
Authors : Butryn, A.; Hopfner, K.-P.
Deposited on : 2015-02-10
Resolution : 2.09 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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

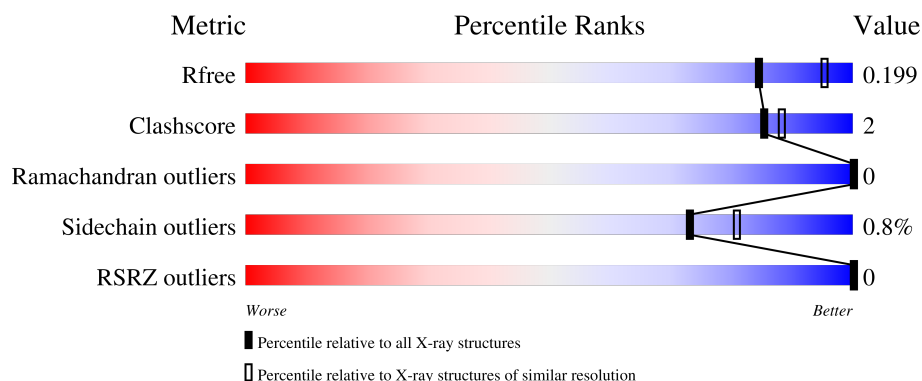
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

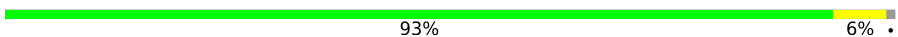
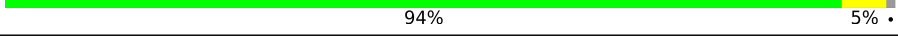
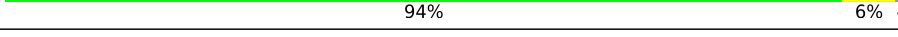
The reported resolution of this entry is 2.09 Å.

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}	180053	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	156	 93% 6% .
1	B	156	 91% 8% .
1	C	156	 94% 5% .
1	D	156	 94% 6% .
1	E	156	 89% 10% ..

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Mol	Chain	Length	Quality of chain
1	F	156	 94% 6% •
1	G	156	 92% 7% •
1	H	156	 94% 6% •
1	I	156	 94% 5% •
1	J	156	 94% 6% •

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 13413 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 Cyanate hydratase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	155	Total	C	N	O	S	0	1	0
			1205	773	201	228	3			
1	B	155	Total	C	N	O	S	0	1	0
			1187	765	196	223	3			
1	C	155	Total	C	N	O	S	0	2	0
			1212	776	203	230	3			
1	D	155	Total	C	N	O	S	0	2	0
			1197	769	200	225	3			
1	E	155	Total	C	N	O	S	0	2	0
			1194	767	198	226	3			
1	F	155	Total	C	N	O	S	0	2	0
			1196	768	199	226	3			
1	G	155	Total	C	N	O	S	0	2	0
			1206	773	202	228	3			
1	H	155	Total	C	N	O	S	0	2	0
			1193	767	199	224	3			
1	I	155	Total	C	N	O	S	0	2	0
			1195	768	199	225	3			
1	J	155	Total	C	N	O	S	0	1	0
			1190	764	198	225	3			

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			6	3	3		
2	G	1	Total	C	O	0	0
			6	3	3		
2	I	1	Total	C	O	0	0
			6	3	3		
2	J	1	Total	C	O	0	0
			6	3	3		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	136	Total	O	0	0
			136	136		
3	B	142	Total	O	0	0
			142	142		
3	C	133	Total	O	0	0
			133	133		
3	D	155	Total	O	0	0
			155	155		
3	E	129	Total	O	0	0
			129	129		
3	F	136	Total	O	0	0
			136	136		
3	G	144	Total	O	0	0
			144	144		
3	H	143	Total	O	0	0
			143	143		

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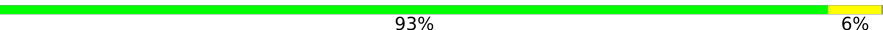
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	I	157	Total 157	O 157	0	0
3	J	139	Total 139	O 139	0	0

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: Cyanate hydratase

Chain A:  93% 6% .

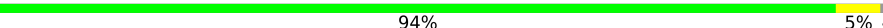


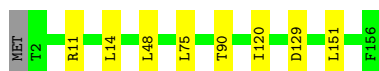
- Molecule 1: Cyanate hydratase

Chain B:  91% 8% .

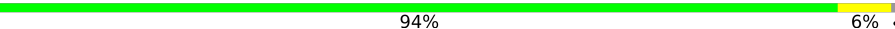


- Molecule 1: Cyanate hydratase

Chain C:  94% 5% .



- Molecule 1: Cyanate hydratase

Chain D:  94% 6% .

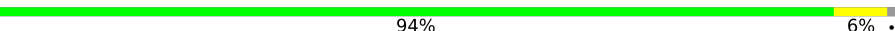


- Molecule 1: Cyanate hydratase

Chain E:  89% 10% ..



- Molecule 1: Cyanate hydratase

Chain F:  94% 6% .



- Molecule 1: Cyanate hydratase

Chain G: 92% 7% .



- Molecule 1: Cyanate hydratase

Chain H: 94% 6% .



- Molecule 1: Cyanate hydratase

Chain I: 94% 5% .



- Molecule 1: Cyanate hydratase

Chain J: 94% 6% .



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	82.55Å 82.46Å 87.98Å 98.56° 117.38° 110.46°	Depositor
Resolution (Å)	47.05 – 2.09 47.05 – 2.09	Depositor EDS
% Data completeness (in resolution range)	92.8 (47.05-2.09) 47.4 (47.05-2.09)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.32 (at 2.09Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.9_1692)	Depositor
R, R_{free}	0.150 , 0.200 0.149 , 0.199	Depositor DCC
R_{free} test set	2424 reflections (4.82%)	wwPDB-VP
Wilson B-factor (Å ²)	28.6	Xtriage
Anisotropy	0.175	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 53.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.477 for k,h,-h-k-l	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	13413	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.60% 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: 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	0.52	0/1229	0.77	0/1670
1	B	0.50	0/1214	0.73	0/1652
1	C	0.51	0/1236	0.74	0/1680
1	D	0.51	0/1221	0.77	0/1660
1	E	0.50	0/1218	0.73	0/1657
1	F	0.51	0/1220	0.76	0/1659
1	G	0.49	0/1230	0.74	0/1672
1	H	0.51	0/1220	0.78	2/1659 (0.1%)
1	I	0.50	0/1222	0.77	2/1662 (0.1%)
1	J	0.50	0/1214	0.76	0/1653
All	All	0.50	0/12224	0.75	4/16624 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	78	ILE	CA-C-N	-5.17	115.27	120.85
1	H	78	ILE	C-N-CA	-5.17	115.27	120.85
1	I	78	ILE	CA-C-N	-5.13	115.31	120.85
1	I	78	ILE	C-N-CA	-5.13	115.31	120.85

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	1205	0	1223	9	0
1	B	1187	0	1206	11	0
1	C	1212	0	1232	7	0
1	D	1197	0	1213	6	0
1	E	1194	0	1202	13	0
1	F	1196	0	1209	6	0
1	G	1206	0	1227	9	0
1	H	1193	0	1212	6	0
1	I	1195	0	1216	5	0
1	J	1190	0	1199	6	0
2	B	6	0	8	2	0
2	G	6	0	8	1	0
2	I	6	0	8	1	0
2	J	6	0	8	0	0
3	A	136	0	0	1	0
3	B	142	0	0	1	0
3	C	133	0	0	1	0
3	D	155	0	0	0	0
3	E	129	0	0	1	0
3	F	136	0	0	1	0
3	G	144	0	0	0	0
3	H	143	0	0	0	0
3	I	157	0	0	1	0
3	J	139	0	0	0	0
All	All	13413	0	12171	54	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 2.

All (54) 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:G:124:ILE:HG13	1:H:120:ILE:HD13	1.74	0.68
1:H:34:GLN:O	1:H:64:LYS:NZ	2.30	0.63
1:C:120:ILE:HG12	1:I:124:ILE:HG13	1.81	0.62
1:F:34:GLN:O	1:F:64:LYS:NZ	2.36	0.58
1:A:48:LEU:HD22	1:B:6:HIS:CE1	2.39	0.57
1:C:151:LEU:HD21	1:I:151:LEU:HD11	1.87	0.57
1:C:48:LEU:HD22	1:G:6:HIS:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:34:GLN:O	1:G:64:LYS:NZ	2.38	0.54
1:A:120:ILE:HG12	1:J:124:ILE:HG13	1.89	0.54
1:E:120:ILE:HG12	1:F:124:ILE:HG13	1.89	0.53
1:A:59:ARG:NH1	3:A:222:HOH:O	2.30	0.50
1:A:103:ILE:HD11	1:F:92:PRO:HG3	1.94	0.49
1:I:34:GLN:O	1:I:64:LYS:NZ	2.45	0.49
1:A:14:LEU:HD21	1:A:75:LEU:HG	1.94	0.49
1:E:48:LEU:HD22	1:H:6:HIS:CE1	2.47	0.49
1:E:120:ILE:HD11	1:E:151:LEU:HD12	1.96	0.48
1:A:92:PRO:HG3	1:F:103:ILE:HD11	1.94	0.48
1:B:11:ARG:NH2	1:B:51:HIS:O	2.46	0.48
1:G:155:PRO:HB2	1:H:38:LEU:HD22	1.97	0.47
1:A:124:ILE:HG13	1:J:120:ILE:HD13	1.96	0.47
1:D:48:LEU:HD22	1:J:6:HIS:CE1	2.52	0.45
1:B:34:GLN:O	1:B:64:LYS:NZ	2.43	0.45
1:D:32:ILE:HA	1:D:64:LYS:HD2	1.97	0.45
1:J:34:GLN:HB2	1:J:64:LYS:HZ3	1.82	0.45
1:C:11:ARG:HA	1:C:11:ARG:HD2	1.78	0.44
1:G:151:LEU:HD21	1:H:151:LEU:HD11	2.00	0.44
2:G:201:GOL:H31	1:H:151:LEU:HD22	1.99	0.44
1:J:14:LEU:HD22	1:J:74:LEU:HB3	2.00	0.44
1:C:90[A]:THR:HG22	3:C:278:HOH:O	2.17	0.44
1:E:110:ALA:HB1	1:G:29:PHE:CE2	2.53	0.44
1:B:151:LEU:HD21	1:D:151:LEU:HD11	1.99	0.43
1:B:151:LEU:HD11	2:B:201:GOL:H12	2.01	0.43
1:E:29:PHE:CE2	1:G:110:ALA:HB1	2.54	0.43
1:F:11:ARG:HA	1:F:11:ARG:HD2	1.87	0.43
1:B:23:ILE:HD11	1:E:5:LEU:HD21	2.00	0.43
1:E:3:GLN:HB2	1:E:77:THR:HG22	2.01	0.42
1:C:151:LEU:HD11	2:I:201:GOL:H31	2.00	0.42
1:E:103:ILE:HD12	1:G:81:ARG:HB3	2.00	0.42
1:E:90[A]:THR:HG23	3:E:271:HOH:O	2.19	0.42
1:E:14:LEU:HD21	1:E:75:LEU:HG	2.02	0.42
1:C:14:LEU:HD21	1:C:75:LEU:HG	2.01	0.42
1:A:90:THR:HG22	3:F:210:HOH:O	2.19	0.42
1:B:149:LYS:HG2	2:B:201:GOL:H11	2.02	0.42
1:B:48:LEU:HD22	1:E:6:HIS:CE1	2.54	0.41
1:B:34:GLN:NE2	3:B:431:HOH:O	2.54	0.41
1:I:90[B]:THR:HG22	3:I:364:HOH:O	2.20	0.41
1:A:116:PHE:CE2	1:D:132:LYS:HG3	2.56	0.41
1:I:29:PHE:CE2	1:J:110:ALA:HB1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:18:ILE:HG23	1:G:65:LEU:HD13	2.02	0.41
1:E:129:ASP:OD1	1:E:145:THR:HB	2.21	0.41
1:D:136:PRO:C	1:D:138:GLY:H	2.28	0.40
1:B:129:ASP:OD1	1:B:145:THR:HB	2.20	0.40
1:D:3:GLN:OE1	1:F:22:LYS:NZ	2.52	0.40
1:B:16:ASP:HA	1:E:7:TYR:OH	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	Percentiles	
1	A	154/156 (99%)	153 (99%)	1 (1%)	0	100	100
1	B	154/156 (99%)	152 (99%)	2 (1%)	0	100	100
1	C	155/156 (99%)	154 (99%)	1 (1%)	0	100	100
1	D	155/156 (99%)	153 (99%)	2 (1%)	0	100	100
1	E	155/156 (99%)	154 (99%)	1 (1%)	0	100	100
1	F	155/156 (99%)	152 (98%)	3 (2%)	0	100	100
1	G	155/156 (99%)	154 (99%)	1 (1%)	0	100	100
1	H	155/156 (99%)	152 (98%)	3 (2%)	0	100	100
1	I	155/156 (99%)	154 (99%)	1 (1%)	0	100	100
1	J	154/156 (99%)	154 (100%)	0	0	100	100
All	All	1547/1560 (99%)	1532 (99%)	15 (1%)	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	130/132 (98%)	130 (100%)	0	100	100
1	B	127/132 (96%)	126 (99%)	1 (1%)	73	81
1	C	132/132 (100%)	131 (99%)	1 (1%)	73	81
1	D	128/132 (97%)	127 (99%)	1 (1%)	73	81
1	E	127/132 (96%)	126 (99%)	1 (1%)	73	81
1	F	128/132 (97%)	126 (98%)	2 (2%)	55	64
1	G	131/132 (99%)	131 (100%)	0	100	100
1	H	128/132 (97%)	126 (98%)	2 (2%)	55	64
1	I	129/132 (98%)	128 (99%)	1 (1%)	73	81
1	J	127/132 (96%)	126 (99%)	1 (1%)	73	81
All	All	1287/1320 (98%)	1277 (99%)	10 (1%)	73	81

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	140	GLU
1	C	129	ASP
1	D	65	LEU
1	E	129	ASP
1	F	108	LEU
1	F	133	VAL
1	H	108	LEU
1	H	128	LEU
1	I	129	ASP
1	J	129	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	34	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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

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		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	GOL	B	201	-	5,5,5	0.31	0	5,5,5	0.32	0
2	GOL	G	201	-	5,5,5	0.37	0	5,5,5	0.36	0
2	GOL	J	201	-	5,5,5	0.37	0	5,5,5	0.28	0
2	GOL	I	201	-	5,5,5	0.38	0	5,5,5	0.39	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	201	-	-	2/4/4/4	-
2	GOL	G	201	-	-	0/4/4/4	-
2	GOL	J	201	-	-	0/4/4/4	-
2	GOL	I	201	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	201	GOL	C1-C2-C3-O3
2	I	201	GOL	O1-C1-C2-O2
2	I	201	GOL	O1-C1-C2-C3
2	I	201	GOL	C1-C2-C3-O3
2	B	201	GOL	O2-C2-C3-O3
2	I	201	GOL	O2-C2-C3-O3

There are no ring outliers.

3 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	201	GOL	2	0
2	G	201	GOL	1	0
2	I	201	GOL	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	155/156 (99%)	-1.41	0 100 100	18, 27, 42, 56	1 (0%)
1	B	155/156 (99%)	-1.44	0 100 100	16, 29, 43, 51	1 (0%)
1	C	155/156 (99%)	-1.42	0 100 100	12, 28, 41, 59	2 (1%)
1	D	155/156 (99%)	-1.42	0 100 100	12, 28, 44, 51	2 (1%)
1	E	155/156 (99%)	-1.41	0 100 100	12, 30, 43, 51	2 (1%)
1	F	155/156 (99%)	-1.44	0 100 100	12, 30, 41, 48	2 (1%)
1	G	155/156 (99%)	-1.44	0 100 100	12, 28, 44, 58	2 (1%)
1	H	155/156 (99%)	-1.41	0 100 100	12, 28, 45, 49	2 (1%)
1	I	155/156 (99%)	-1.39	0 100 100	12, 29, 44, 55	2 (1%)
1	J	155/156 (99%)	-1.44	0 100 100	13, 30, 44, 56	1 (0%)
All	All	1550/1560 (99%)	-1.42	0 100 100	12, 29, 44, 59	17 (1%)

There are no RSRZ outliers to report.

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 oligosaccharides 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	J	201	6/6	0.98	0.03	43,44,49,60	0
2	GOL	G	201	6/6	0.99	0.03	46,49,51,61	0
2	GOL	I	201	6/6	0.99	0.02	43,48,52,55	0
2	GOL	B	201	6/6	0.99	0.02	47,48,55,60	0

6.5 Other polymers [i](#)

There are no such residues in this entry.