

# Full wwPDB X-ray Structure Validation Report (i)

Jun 16, 2024 – 11:05 AM EDT

PDB ID : 4Y42

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 (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 : 2.37.1

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac : 5.8.0158

CCP4 : 7.0.044 (Gargrove) oteins) : Engh & Huber (2001)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

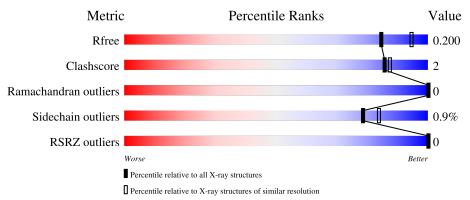
Validation Pipeline (wwPDB-VP) : 2.37.1

## 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 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\#  ext{Entries},  ext{ resolution range}(\AA))$
$R_{free}$	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (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 <=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	В	156	91%	8% •
1	С	156	94%	5% •
1	D	156	95%	
1	Е	156	89%	10%



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Mol	Chain	Length	Quality of chain	
1	F	156	94%	5% •
1	G	156	92%	7% •
1	Н	156	94%	5% •
1	I	156	95%	
1	J	156	94%	6% •



# 2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 13413 atoms, of which 0 are hydrogens and 0 are deuteriums.

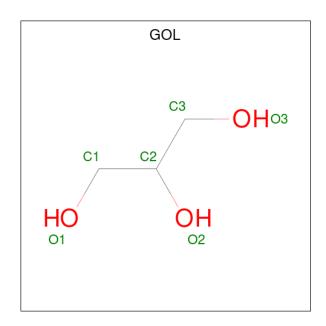
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

• Molecule 1 is a protein called Cyanate hydratase.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	A	155	Total	С	N	О	S	0	1	0
1	A	199	1205	773	201	228	3	0	1	U
1	В	155	Total	С	N	О	S	0	1	0
1	D	100	1187	765	196	223	3	0	1	U
1	С	155	Total	С	N	О	S	0	2	0
1		100	1212	776	203	230	3	0	2	U
1	D	155	Total	С	N	O	$\mathbf{S}$	0	2	0
1	D	100	1197	769	200	225	3	0	2	U
1	E	155	Total	С	N	O	$\mathbf{S}$	0	2	0
1	ш	100	1194	767	198	226	3	O	2	0
1	F	155	Total	С	N	O	$\mathbf{S}$	0	2	0
1	I.	100	1196	768	199	226	3	U	2	U
1	G	155	Total	С	N	Ο	S	0	2	0
1	d	100	1206	773	202	228	3	O	2	U
1	Н	155	Total	С	N	Ο	S	0	2	0
1	11	100	1193	767	199	224	3	O	2	U
1	I	155	Total	С	N	Ο	S	0	2	0
1	1	100	1195	768	199	225	3	U	2	U
1	J	155	Total	С	N	О	S	0	1	0
1		100	1190	764	198	225	3		1	U

• Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).





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

#### • Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	136	Total O 136 136	0	0
3	В	142	Total O 142 142	0	0
3	С	133	Total O 133 133	0	0
3	D	155	Total O 155 155	0	0
3	E	129	Total O 129 129	0	0
3	F	136	Total O 136 136	0	0
3	G	144	Total O 144 144	0	0
3	Н	143	Total O 143 143	0	0



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







• Molecule 1: Cyanate hydratase

Chain G: 92% 7% •



• Molecule 1: Cyanate hydratase

Chain H: 94% 5%.



• Molecule 1: Cyanate hydratase

Chain I: 95%



• Molecule 1: Cyanate hydratase

Chain J: 94% 6% •





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	82.55Å 82.46Å 87.98Å	Donogitor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$98.56^{\circ}$ $117.38^{\circ}$ $110.46^{\circ}$	Depositor
Resolution (Å)	47.05 - 2.09	Depositor
Resolution (A)	11.74 - 2.09	EDS
% Data completeness	92.8 (47.05-2.09)	Depositor
(in resolution range)	47.6 (11.74-2.09)	EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.32  (at  2.09Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.9_1692)	Depositor
$R, R_{free}$	0.150 , $0.200$	Depositor
it, it <sub>free</sub>	0.149 , $0.200$	DCC
$R_{free}$ test set	2424  reflections  (4.82%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	28.6	Xtriage
Anisotropy	0.175	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.41, 54.0	EDS
L-test for twinning <sup>2</sup>	$< L >=0.50, < L^2>=0.34$	Xtriage
Estimated twinning fraction	0.477 for k,h,-h-k-l	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	13413	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	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.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: 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	
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	A	0.38	0/1229	0.54	0/1670
1	В	0.37	0/1214	0.52	0/1652
1	С	0.37	0/1236	0.51	0/1680
1	D	0.38	0/1221	0.55	0/1660
1	Е	0.36	0/1218	0.50	0/1657
1	F	0.38	0/1220	0.53	0/1659
1	G	0.36	0/1230	0.53	0/1672
1	Н	0.37	0/1220	0.54	0/1659
1	I	0.37	0/1222	0.54	0/1662
1	J	0.37	0/1214	0.53	0/1653
All	All	0.37	0/12224	0.53	0/16624

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	1205	0	1223	9	0
1	В	1187	0	1206	11	0
1	С	1212	0	1232	7	0



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Mol	Chain	Non-H	H(model)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
1	D	1197	0	1213	4	0
1	Е	1194	0	1202	13	0
1	F	1196	0	1209	5	0
1	G	1206	0	1227	9	0
1	Η	1193	0	1212	6	0
1	I	1195	0	1216	5	0
1	J	1190	0	1199	6	0
2	В	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	В	142	0	0	1	0
3	С	133	0	0	1	0
3	D	155	0	0	0	0
3	Ε	129	0	0	1	0
3	F	136	0	0	1	0
3	G	144	0	0	0	0
3	Н	143	0	0	0	0
3	I	157	0	0	1	0
3	J	139	0	0	0	0
All	All	13413	0	12171	52	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 (52) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	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
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



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At 1		Interatomic	Clash
Atom-1	Atom-2	${\rm distance}\ ({\rm \AA})$	overlap (Å)
1:J:34:GLN:O	1:J:64:LYS:NZ	2.42	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:I:34:GLN:O	1:I:64:LYS:NZ	2.45	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: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
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:B:129:ASP:OD1	1:B:145:THR:HB	2.20	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	Percent	iles
1	A	154/156 (99%)	153 (99%)	1 (1%)	0	100	L00
1	В	154/156 (99%)	152 (99%)	2 (1%)	0	100	100
1	С	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	L00
1	F	155/156~(99%)	152 (98%)	3 (2%)	0	100	100
1	G	155/156 (99%)	154 (99%)	1 (1%)	0	100	L00
1	Н	155/156~(99%)	152 (98%)	3 (2%)	0	100	100
1	I	155/156 (99%)	154 (99%)	1 (1%)	0	100	L00
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 (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	130/132~(98%)	130 (100%)	0	100	100	
1	В	127/132~(96%)	126 (99%)	1 (1%)	81	86	
1	С	$132/132\ (100\%)$	131 (99%)	1 (1%)	81	86	
1	D	128/132 (97%)	126 (98%)	2 (2%)	62	69	



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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	${ m E}$	127/132 (96%)	126 (99%)	1 (1%)	81 86
1	F	128/132 (97%)	126 (98%)	2 (2%)	62 69
1	G	131/132 (99%)	131 (100%)	0	100 100
1	Н	128/132 (97%)	126 (98%)	2 (2%)	62 69
1	I	129/132 (98%)	128 (99%)	1 (1%)	81 86
1	J	127/132 (96%)	126 (99%)	1 (1%)	81 86
All	All	1287/1320 (98%)	1276 (99%)	11 (1%)	78 84

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	140	GLU
1	С	129	ASP
1	D	65	LEU
1	D	129	ASP
1	Е	129	ASP
1	F	108	LEU
1	F	129	ASP
1	Н	108	LEU
1	Н	128	LEU
1	I	129	ASP
1	J	129	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

#### 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)

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	Mol Type		Res	Link	Bond lengths			Bond angles		
MIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	GOL	G	201	-	5,5,5	0.37	0	5,5,5	0.35	0
2	GOL	В	201	-	5,5,5	0.30	0	5,5,5	0.29	0
2	GOL	I	201	-	5,5,5	0.38	0	5,5,5	0.38	0
2	GOL	J	201	-	5,5,5	0.36	0	5,5,5	0.26	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	G	201	_	-	0/4/4/4	-
2	GOL	В	201	-	-	2/4/4/4	_
2	GOL	I	201	-	-	4/4/4/4	-
2	GOL	J	201	-	-	0/4/4/4	-

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	В	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	В	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	G	201	GOL	1	0
2	В	201	GOL	2	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,  $95^{th}$  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></rsrz>	#	#RSR	Z>2	$OWAB(A^2)$	Q < 0.9
1	A	$155/156\ (99\%)$	-0.35	0	100	100	19, 28, 42, 56	0
1	В	$155/156\ (99\%)$	-0.35	0	100	100	18, 29, 43, 51	0
1	С	$155/156\ (99\%)$	-0.33	0	100	100	18, 28, 41, 59	0
1	D	$155/156\ (99\%)$	-0.29	0	100	100	19, 28, 44, 51	0
1	E	$155/156\ (99\%)$	-0.39	0	100	100	18, 30, 43, 51	0
1	F	$155/156\ (99\%)$	-0.37	0	100	100	19, 30, 41, 48	0
1	G	$155/156\ (99\%)$	-0.40	0	100	100	20, 28, 44, 58	0
1	Н	$155/156\ (99\%)$	-0.35	0	100	100	19, 28, 45, 49	0
1	I	155/156~(99%)	-0.24	0	100	100	19, 29, 44, 55	0
1	J	155/156~(99%)	-0.36	0	100	100	20, 30, 44, 56	0
All	All	1550/1560 (99%)	-0.34	0	100	100	18, 29, 44, 59	0

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 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,  $95^{th}$  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	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q < 0.9
2	GOL	G	201	6/6	0.92	0.12	46,49,51,61	0
2	GOL	В	201	6/6	0.93	0.15	47,48,55,60	0
2	GOL	J	201	6/6	0.94	0.12	43,44,49,60	0
2	GOL	I	201	6/6	0.95	0.11	43,48,52,55	0

# 6.5 Other polymers (i)

There are no such residues in this entry.

