

wwPDB X-ray Structure Validation Summary Report (i)

May 26, 2020 – 05:25 pm BST

PDB ID	:	2HIY
Title	:	The structure of conserved bacterial protein SP0830 from Streptococcus pneu-
		moniae. (CASP Target)
Authors	:	Cuff, M.E.; Zhou, M.; Abdullah, J.; Joachimiak, A.; Midwest Center for Struc-
		tural Genomics (MCSG)
Deposited on	:	2006-06-29
Resolution	:	1.40 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

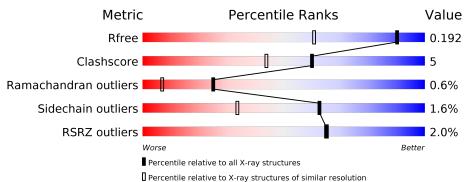
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\rm CCP4$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 1.40 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	1714 (1.40-1.40)
Clashscore	141614	1812 (1.40-1.40)
Ramachandran outliers	138981	1763(1.40-1.40)
Sidechain outliers	138945	1762(1.40-1.40)
RSRZ outliers	127900	1674(1.40-1.40)

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 on 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	А	183	91%	7%	••
1	В	183	% 	10%	•••
1	С	183	90%	8%	
1	D	183	4% 92%	7%	•

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-



ria:

Mo	l Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	GOL	D	8001[B]	_	_	X	-



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 7954 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.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	190	Total	С	Ν	Ο	Se	0	4	0
	A	180	1516	992	244	277	3	0		0
1	В	180	Total	С	Ν	Ο	Se	0	13	0
	I D	100	1585	1032	255	294	4	0		
1	С	181	Total	С	Ν	Ο	Se	0	14	0
		101	1606	1046	261	295	4	0	14	0
1	1 D	192	Total	С	Ν	Ο	Se	0	8	0
		183	1566	1021	252	290	3	0	0	0

• Molecule 1 is a protein called Hypothetical protein.

There are 24 discrepancies between the modelled and reference sequences:

Residue	Modelled	Actual	Comment	Reference
-2	SER	-	CLONING ARTIFACT	UNP Q97RI5
-1	ASN	-	CLONING ARTIFACT	UNP Q97RI5
0	ALA	-	CLONING ARTIFACT	UNP Q97RI5
1	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
21	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
177	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
-2	SER	-	CLONING ARTIFACT	UNP Q97RI5
-1	ASN	-	CLONING ARTIFACT	UNP Q97RI5
0	ALA	-	CLONING ARTIFACT	UNP Q97RI5
1	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
21	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
177	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
-2	SER	-	CLONING ARTIFACT	UNP Q97RI5
-1	ASN	-	CLONING ARTIFACT	UNP Q97RI5
0	ALA	-	CLONING ARTIFACT	UNP Q97RI5
1	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
21	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
177	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
-2	SER	-	CLONING ARTIFACT	UNP Q97RI5
-1	ASN	-	CLONING ARTIFACT	UNP Q97RI5
0	ALA	-	CLONING ARTIFACT	UNP Q97RI5
	$\begin{array}{r} -2 \\ -1 \\ 0 \\ 1 \\ 21 \\ 177 \\ -2 \\ -1 \\ 0 \\ 1 \\ 21 \\ 177 \\ -2 \\ -1 \\ 0 \\ 1 \\ 21 \\ 177 \\ -2 \\ -1 \\ 0 \\ 1 \\ 21 \\ 177 \\ -2 \\ -1 \\ 177 \\ -2 \\ -1 \\ 177 \\ -2 \\ -1 \end{array}$	-2 SER -1 ASN 0 ALA 1 MSE 21 MSE 177 MSE -2 SER -1 ASN 0 ALA 177 MSE -2 SER -1 ASN 0 ALA 1 MSE 21 MSE 177 MSE -2 SER -1 ASN 0 ALA 1 MSE -1 ASN 0 ALA 1 MSE 21 MSE 21 MSE 21 MSE 177 MSE -2 SER -1 MSE -2 SER -17 MSE -2 SER -1 ASN	-2 SER - -1 ASN - 0 ALA - 1 MSE MET 21 MSE MET 177 MSE MET -2 SER - -1 ASN - 0 ALA - -17 MSE MET -2 SER - -1 ASN - 0 ALA - 1 MSE MET 21 MSE MET 177 MSE MET -2 SER - -1 ASN - 0 ALA - 1 MSE MET 1 MSE MET 1 MSE MET 1 MSE MET 177 MSE MET 177 MSE MET -2 SER <td>-2SER-CLONING ARTIFACT-1ASN-CLONING ARTIFACT0ALA-CLONING ARTIFACT1MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE-2SER-CLONING ARTIFACT-1ASN-CLONING ARTIFACT0ALA-CLONING ARTIFACT1MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE11MSEMETMODIFIED RESIDUE-2SER-CLONING ARTIFACT1MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE11MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMOD</td>	-2SER-CLONING ARTIFACT-1ASN-CLONING ARTIFACT0ALA-CLONING ARTIFACT1MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE-2SER-CLONING ARTIFACT-1ASN-CLONING ARTIFACT0ALA-CLONING ARTIFACT1MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE11MSEMETMODIFIED RESIDUE-2SER-CLONING ARTIFACT1MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE11MSEMETMODIFIED RESIDUE21MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMODIFIED RESIDUE177MSEMETMOD

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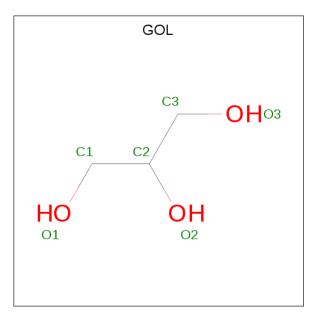
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Chain	Residue	Modelled	Actual	Comment	Reference
D	1	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
D	21	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5
D	177	MSE	MET	MODIFIED RESIDUE	UNP Q97RI5

• Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	В	1	Total Cl 1 1	0	0
2	А	2	$\begin{array}{cc} \text{Total} & \text{Cl} \\ 2 & 2 \end{array}$	0	0
2	С	1	Total Cl 1 1	0	0

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



\mathbb{N}	ſol	Chain	Residues	Atoms	ZeroOcc	AltConf
	3	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 3 3 \end{array}$	0	0
	3	D	1	Total C O 12 6 6	0	1

• Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	1	Total Mg 1 1	0	0
4	С	1	Total Mg 1 1	0	0

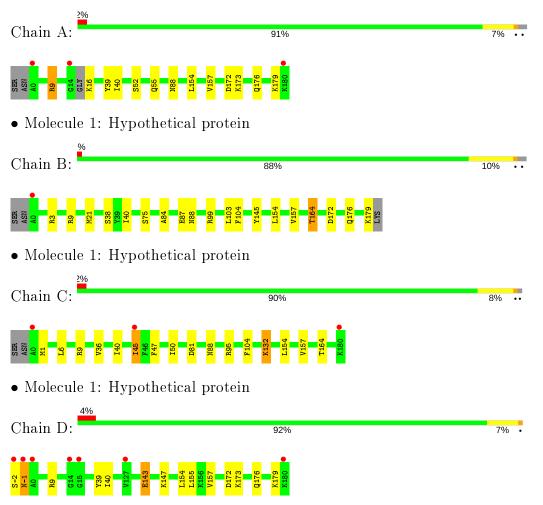
• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	412	Total O 412 412	0	0
5	В	397	Total O 397 397	0	0
5	С	431	Total O 431 431	0	0
5	D	417	Total O 417 417	0	0



3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: Hypothetical protein



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	63.25Å 108.84Å 65.53 Å	Depositor
a, b, c, α , β , γ	90.00° 97.15° 90.00°	Depositor
Resolution (Å)	48.28 - 1.40	Depositor
Resolution (A)	42.58 - 1.40	EDS
% Data completeness	98.2(48.28-1.40)	Depositor
(in resolution range)	98.2(42.58-1.40)	EDS
R _{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.53 ({ m at} 1.40 { m \AA})$	Xtriage
Refinement program	REFMAC $5.2.0019$	Depositor
R, R_{free}	0.163 , 0.194	Depositor
It, Itfree	0.161 , 0.192	DCC
R_{free} test set	8487 reflections $(5.01%)$	wwPDB-VP
Wilson B-factor ($Å^2$)	15.6	Xtriage
Anisotropy	0.295	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.36 , 46.9	EDS
L-test for twinning ²	$< L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.015 for l,-k,h	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	7954	wwPDB-VP
Average B, all atoms $(Å^2)$	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 12.09% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities 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, MG, CL

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	Chain Bond lengths		Bond angles	
	Cham	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.59	0/1546	0.70	0/2077
1	В	0.60	0/1614	0.71	0/2166
1	С	0.60	0/1636	0.74	1/2192~(0.0%)
1	D	0.58	0/1596	0.69	0/2143
All	All	0.59	0/6392	0.71	1/8578~(0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
1	С	95	ARG	NE-CZ-NH2	-7.34	116.63	120.30

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	А	1516	0	1523	9	0
1	В	1585	0	1579	22	0
1	С	1606	0	1612	12	0
1	D	1566	0	1567	15	0
2	А	2	0	0	0	0
2	В	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	С	1	0	0	0	0
3	А	6	0	8	0	0
3	D	12	0	16	8	0
4	В	1	0	0	0	0
4	С	1	0	0	0	0
5	А	412	0	0	4	1
5	В	397	0	0	9	1
5	С	431	0	0	1	0
5	D	417	0	0	4	0
All	All	7954	0	6305	58	1

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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 5.

The worst 5 of 58 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:88:ASN:HB2	5:A:8365:HOH:O	1.50	1.08
1:B:21[B]:MSE:HE3	1:B:38:SER:HB2	1.34	1.08
1:C:104:PHE:HB2	1:C:164[B]:THR:HG22	1.41	1.01
1:B:21[B]:MSE:CE	1:B:38:SER:HB2	1.94	0.98
1:D:154[B]:LEU:HD23	3:D:8001[B]:GOL:C1	1.98	0.94

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:8106:HOH:O	5:B:7351:HOH:O[1_554]	1.92	0.28

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	Percer	ntiles
1	А	180/183~(98%)	176~(98%)	3~(2%)	1 (1%)	25	7
1	В	190/183~(104%)	186~(98%)	3~(2%)	1 (0%)	29	9
1	С	193/183~(106%)	190~(98%)	2(1%)	1 (0%)	29	9
1	D	188/183~(103%)	184 (98%)	3~(2%)	1 (0%)	29	9
All	All	751/732~(103%)	736~(98%)	11 (2%)	4 (0%)	25	9

All (4) Ramachandran outliers are listed below:

Mol	Chain	\mathbf{Res}	Type
1	А	40	ILE
1	В	40	ILE
1	С	40	ILE
1	D	40	ILE

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	А	164/159~(103%)	163~(99%)	1 (1%)	86 70
1	В	172/159~(108%)	169~(98%)	3~(2%)	60 31
1	С	174/159~(109%)	169~(97%)	5(3%)	42 11
1	D	170/159~(107%)	165~(97%)	5(3%)	42 11
All	All	680/636~(107%)	666~(98%)	14 (2%)	62 21

5 of 14 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	45[B]	ILE
1	С	132[A]	LYS
1	D	9	ARG
1	С	45[A]	ILE
1	D	-1	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such



sidechains are listed below:

Mol	Chain	Res	Type
1	А	176	GLN
1	D	55	GLN
1	D	176	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 carbohydrates in this entry.

5.6 Ligand geometry (i)

Of 9 ligands modelled in this entry, 6 are monoatomic - leaving 3 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 Ty	True	Chain	Res	Link	Bond lengths			Bond angles		
	туре				Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GOL	D	8001[B]	-	5, 5, 5	0.44	0	5, 5, 5	0.24	0
3	GOL	А	8002	-	5, 5, 5	0.25	0	5, 5, 5	0.51	0
3	GOL	D	8001[A]	-	5, 5, 5	0.31	0	5, 5, 5	0.67	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
3	GOL	D	8001[B]	-	-	0/4/4/4	-
3	GOL	А	8002	-	-	0/4/4/4	-
3	GOL	D	8001[A]	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	8001[B]	GOL	8	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>2	$OWAB(A^2)$	Q<0.9
1	А	177/183~(96%)	-0.31	3 (1%) 70 69	11, 15, 23, 32	0
1	В	177/183~(96%)	-0.19	1 (0%) 89 88	12, 16, 23, 30	0
1	С	178/183~(97%)	-0.22	3 (1%) 70 69	11, 15, 22, 35	0
1	D	180/183~(98%)	-0.06	7 (3%) 39 39	11, 16, 25, 43	0
All	All	712/732~(97%)	-0.20	14 (1%) 65 65	11, 16, 23, 43	0

The worst 5 of 14 RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	D	-2	SER	7.7
1	D	-1	ASN	7.3
1	А	0	ALA	6.5
1	D	15	GLY	6.1
1	D	14	GLY	5.4

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 carbohydrates 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	\mathbf{RSR}	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$Q{<}0.9$
3	GOL	D	8001[B]	6/6	0.85	0.22	$27,\!30,\!31,\!32$	6
3	GOL	D	8001[A]	6/6	0.85	0.22	$15,\!18,\!18,\!19$	6
3	GOL	А	8002	6/6	0.90	0.18	27,31,32,32	0
2	CL	А	7006	1/1	0.96	0.12	$25,\!25,\!25,\!25$	0
4	MG	С	7002	1/1	0.98	0.24	$25,\!25,\!25,\!25$	0
4	MG	В	7001	1/1	0.99	0.22	21,21,21,21	0
2	CL	В	7004	1/1	0.99	0.05	16, 16, 16, 16	0
2	CL	С	7003	1/1	0.99	0.04	$15,\!15,\!15,\!15$	0
2	CL	А	7005	1/1	0.99	0.07	21,21,21,21	0

6.5 Other polymers (i)

There are no such residues in this entry.

