

Full wwPDB X-ray Structure Validation Report (i)

Jun 12, 2024 – 08:55 PM EDT

PDB ID : 3LXT

Title : Crystal structure of Glutathione S Transferase from Pseudomonas fluorescens Authors Agarwal, R.; Burley, S.K.; Swaminathan, S.; New York SGX Research Center

for Structural Genomics (NYSGXRC)

Deposited on 2010-02-25

1.76 Å(reported) Resolution

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

> 2022.3.0, CSD as543be (2022) Mogul

Xtriage (Phenix) 1.20.1

EDS 2.36.2

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

> Refmac 5.8.0158

CCP4 7.0.044 (Gargrove)

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

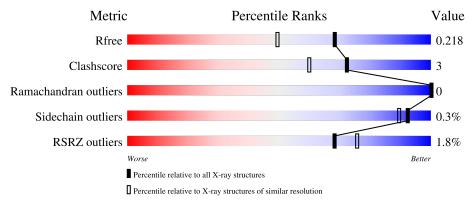
Validation Pipeline (wwPDB-VP) 2.36.2

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 1.76 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\AA)}) \end{array}$
R_{free}	130704	2340 (1.76-1.76)
Clashscore	141614	2466 (1.76-1.76)
Ramachandran outliers	138981	2437 (1.76-1.76)
Sidechain outliers	138945	2437 (1.76-1.76)
RSRZ outliers	127900	2298 (1.76-1.76)

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	213	85%	11%	
1	В	213	89%	7%	5%
1	С	213	90%	9%	
1	D	213	90%	7%	•



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 7197 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 Glutathione S Transferase.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	204	Total	С	N	О	S	0	0	0
1	A	204	1576	1012	270	287	7	0	U	
1	р	203	Total	С	N	О	S	0	0	0
1	Ъ	203	1569	1008	269	285	7	0	U	
1	С	211	Total	С	N	О	S	0	0	0
1		211	1635	1046	285	297	7	U	U	
1	D	205	Total	С	N	О	S	0	0	0
1	ע	200	1578	1012	271	288	7		U	

There are 44 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	expression tag	UNP Q4KDJ6
A	2	SER	-	expression tag	UNP Q4KDJ6
A	3	LEU	-	expression tag	UNP Q4KDJ6
A	206	GLU	-	expression tag	UNP Q4KDJ6
A	207	GLY	-	expression tag	UNP Q4KDJ6
A	208	HIS	-	expression tag	UNP Q4KDJ6
A	209	HIS	-	expression tag	UNP Q4KDJ6
A	210	HIS	-	expression tag	UNP Q4KDJ6
A	211	HIS	-	expression tag	UNP Q4KDJ6
A	212	HIS	-	expression tag	UNP Q4KDJ6
A	213	HIS	-	expression tag	UNP Q4KDJ6
В	1	MET	-	expression tag	UNP Q4KDJ6
В	2	SER	-	expression tag	UNP Q4KDJ6
В	3	LEU	-	expression tag	UNP Q4KDJ6
В	206	GLU	-	expression tag	UNP Q4KDJ6
В	207	GLY	-	expression tag	UNP Q4KDJ6
В	208	HIS	-	expression tag	UNP Q4KDJ6
В	209	HIS	-	expression tag	UNP Q4KDJ6
В	210	HIS	-	expression tag	UNP Q4KDJ6
В	211	HIS	-	expression tag	UNP Q4KDJ6
В	212	HIS	-	expression tag	UNP Q4KDJ6

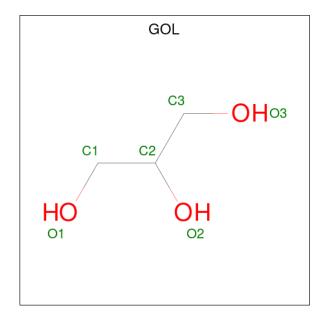
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Chain	Residue	Modelled	Actual	Comment	Reference
В	213	HIS	-	expression tag	UNP Q4KDJ6
С	1	MET	-	expression tag	UNP Q4KDJ6
С	2	SER	-	expression tag	UNP Q4KDJ6
С	3	LEU	-	expression tag	UNP Q4KDJ6
С	206	GLU	-	expression tag	UNP Q4KDJ6
С	207	GLY	-	expression tag	UNP Q4KDJ6
С	208	HIS	-	expression tag	UNP Q4KDJ6
С	209	HIS	-	expression tag	UNP Q4KDJ6
С	210	HIS	-	expression tag	UNP Q4KDJ6
С	211	HIS	-	expression tag	UNP Q4KDJ6
С	212	HIS	-	expression tag	UNP Q4KDJ6
С	213	HIS	-	expression tag	UNP Q4KDJ6
D	1	MET	-	expression tag	UNP Q4KDJ6
D	2	SER	-	expression tag	UNP Q4KDJ6
D	3	LEU	-	expression tag	UNP Q4KDJ6
D	206	GLU	-	expression tag	UNP Q4KDJ6
D	207	GLY	-	expression tag	UNP Q4KDJ6
D	208	HIS	-	expression tag	UNP Q4KDJ6
D	209	HIS	-	expression tag	UNP Q4KDJ6
D	210	HIS	-	expression tag	UNP Q4KDJ6
D	211	HIS	-	expression tag	UNP Q4KDJ6
D	212	HIS	-	expression tag	UNP Q4KDJ6
D	213	HIS	-	expression tag	UNP Q4KDJ6

 \bullet Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: $\mathrm{C_3H_8O_3}).$





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

 \bullet Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	2	Total Cl 2 2	0	0
3	В	2	Total Cl 2 2	0	0
3	С	2	Total Cl 2 2	0	0
3	D	1	Total Cl 1 1	0	0

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	180	Total O 180 180	0	0
4	В	186	Total O 186 186	0	0
4	С	261	Total O 261 261	0	0
4	D	193	Total O 193 193	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: Glutathione S Transferase

Chain A:

85%
11%

• Molecule 1: Glutathione S Transferase

Chain B:

89%
7% 5%

• Molecule 1: Glutathione S Transferase

Chain C:

90%
9%
• Molecule 1: Glutathione S Transferase

Chain C:

90%
9%
• Molecule 1: Glutathione S Transferase

Chain C:

90%
9%
• Molecule 1: Glutathione S Transferase

Chain D:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	57.68Å 57.89Å 265.77Å	Donogitor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.30 - 1.76	Depositor
Resolution (A)	44.30 - 1.76	EDS
% Data completeness	88.9 (44.30-1.76)	Depositor
(in resolution range)	89.0 (44.30-1.76)	EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	5.20 (at 1.76Å)	Xtriage
Refinement program	CCP4, CNS	Depositor
Ρ. Р.	0.199 , 0.226	Depositor
R, R_{free}	0.195 , 0.218	DCC
R_{free} test set	2395 reflections (2.97%)	wwPDB-VP
Wilson B-factor (Å ²)	13.9	Xtriage
Anisotropy	0.120	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36, 42.9	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.020 for k,h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	7197	wwPDB-VP
Average B, all atoms (Å ²)	15.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.43% of the height of the origin peak. No significant pseudotranslation is detected.

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.



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, 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	Bond	lengths	Bond	Bond angles	
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.32	0/1611	0.58	0/2187	
1	В	0.33	0/1604	0.57	0/2177	
1	С	0.32	0/1674	0.57	0/2272	
1	D	0.32	0/1613	0.59	0/2190	
All	All	0.32	0/6502	0.58	0/8826	

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	1576	0	1598	15	0
1	В	1569	0	1591	8	0
1	С	1635	0	1640	11	0
1	D	1578	0	1591	10	0
2	A	6	0	8	0	0
2	В	6	0	8	0	0
3	A	2	0	0	0	0
3	В	2	0	0	0	0
3	С	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	1	0	0	0	0
4	A	180	0	0	2	0
4	В	186	0	0	0	0
4	С	261	0	0	1	0
4	D	193	0	0	1	0
All	All	7197	0	6436	43	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 3.

All (43) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}({\rm \AA})$	overlap(Å)
1:D:179:ASN:H	1:D:182:GLN:HE21	1.25	0.81
1:A:120:GLU:HG3	1:A:121:LYS:HG2	1.81	0.61
1:A:163:LEU:HD21	1:A:186:VAL:HG13	1.84	0.59
1:C:187:ARG:O	1:C:191:GLU:HG3	2.05	0.57
1:A:118:PRO:HB2	1:A:120:GLU:HG2	1.87	0.57
1:D:179:ASN:N	1:D:182:GLN:HE21	2.00	0.56
1:C:54:LEU:HD22	1:C:68:ILE:HG23	1.89	0.55
1:D:124:GLY:O	1:D:128:GLU:HG3	2.07	0.55
1:A:143:GLN:HG2	1:A:147:LYS:HE3	1.89	0.54
1:B:87:LEU:HB3	1:B:88:PRO:HD3	1.92	0.51
1:D:163:LEU:HD11	1:D:186:VAL:HG13	1.92	0.51
1:A:120:GLU:HG3	1:A:121:LYS:N	2.26	0.51
1:A:41:GLN:HG3	4:A:227:HOH:O	2.10	0.50
1:A:143:GLN:O	1:A:147:LYS:HG3	2.12	0.50
1:B:163:LEU:HD11	1:B:186:VAL:HG13	1.93	0.49
1:A:7:GLY:O	1:A:30:HIS:HE1	1.94	0.49
1:B:141:LEU:HD13	1:B:163:LEU:HD13	1.95	0.49
1:D:153:ASP:HB2	4:D:260:HOH:O	2.14	0.48
1:C:163:LEU:HD11	1:C:186:VAL:HG13	1.96	0.47
1:A:141:LEU:HD13	1:A:163:LEU:HD23	1.96	0.47
1:C:105:GLU:O	1:C:109:GLN:HG3	2.15	0.47
1:C:87:LEU:HB3	1:C:88:PRO:HD3	1.97	0.47
1:B:64:ASP:OD2	1:B:67:LEU:HG	2.15	0.46
1:D:63:MET:O	1:D:64:ASP:HB3	2.16	0.46
1:A:63:MET:O	1:A:64:ASP:HB3	2.16	0.45
1:B:167:TRP:O	1:B:171:GLN:HG2	2.16	0.45
1:A:4:LYS:HE3	1:A:31:HIS:CE1	2.52	0.45
1:D:113:GLU:O	1:D:122:GLN:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	overlap (Å)
1:B:4:LYS:HB2	1:B:55:VAL:HB	1.99	0.44
1:C:63:MET:O	1:C:64:ASP:HB3	2.17	0.44
1:A:14:VAL:HG22	1:A:52:PRO:HB3	1.99	0.44
1:C:4:LYS:HB2	1:C:55:VAL:HB	1.99	0.43
1:A:105:GLU:O	1:A:109:GLN:HG3	2.20	0.42
1:D:178:PHE:HA	1:D:182:GLN:NE2	2.33	0.42
1:A:106:LYS:HA	1:A:106:LYS:HD3	1.90	0.42
1:B:71:TYR:CE1	1:C:91:LEU:HD13	2.56	0.41
1:C:49:VAL:O	1:C:49:VAL:HG12	2.20	0.41
1:D:145:LEU:HD21	1:D:163:LEU:HD21	2.03	0.41
1:C:14:VAL:HA	1:C:52:PRO:HB3	2.02	0.41
1:A:57:GLU:HG3	4:A:860:HOH:O	2.20	0.41
1:C:80:ARG:NH1	4:C:1016:HOH:O	2.54	0.41
1:D:49:VAL:HG12	1:D:49:VAL:O	2.21	0.40
1:B:92:ARG:NH2	1:B:148:GLN:HB3	2.36	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	Perce	ntiles
1	A	$202/213 \ (95\%)$	195 (96%)	7 (4%)	0	100	100
1	В	$201/213 \ (94\%)$	195 (97%)	6 (3%)	0	100	100
1	С	209/213 (98%)	204 (98%)	5 (2%)	0	100	100
1	D	$203/213 \ (95\%)$	197 (97%)	6 (3%)	0	100	100
All	All	815/852 (96%)	791 (97%)	24 (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	Perce	ntiles
1	A	168/177~(95%)	166 (99%)	2 (1%)	71	56
1	В	167/177 (94%)	167 (100%)	0	100	100
1	С	174/177 (98%)	174 (100%)	0	100	100
1	D	167/177 (94%)	167 (100%)	0	100	100
All	All	676/708~(96%)	674 (100%)	2 (0%)	92	89

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	85	THR
1	A	180	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	HIS
1	A	31	HIS
1	В	148	GLN
1	В	171	GLN
1	С	143	GLN
1	D	179	ASN
1	D	182	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 9 ligands modelled in this entry, 7 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	Trino	Chain	Dag	Link	В	ond leng	$_{ m gths}$	В	ond ang	gles
IVIOI	Type	Chain	Res	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GOL	A	3969	-	5,5,5	0.73	0	5,5,5	2.06	2 (40%)
2	GOL	В	3968	-	5,5,5	0.83	0	5,5,5	2.10	2 (40%)

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	A	3969	-	-	1/4/4/4	-
2	GOL	В	3968	-	-	2/4/4/4	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
2	В	3968	GOL	O2-C2-C3	3.19	122.38	109.18
2	A	3969	GOL	O2-C2-C3	3.13	122.13	109.18
2	В	3968	GOL	C3-C2-C1	-2.40	102.98	111.80
2	A	3969	GOL	C3-C2-C1	-2.25	103.54	111.80

There are no chirality outliers.

All (3) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
2	В	3968	GOL	C1-C2-C3-O3
2	В	3968	GOL	O1-C1-C2-C3
2	A	3969	GOL	O1-C1-C2-C3

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, 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>	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	$204/213 \; (95\%)$	-0.01	4 (1%) 65 72	7, 14, 23, 27	0
1	В	$203/213 \ (95\%)$	0.05	4 (1%) 65 72	7, 13, 21, 29	0
1	С	211/213 (99%)	-0.03	5 (2%) 59 65	6, 13, 22, 29	0
1	D	205/213 (96%)	-0.05	2 (0%) 82 87	7, 13, 23, 29	0
All	All	823/852 (96%)	-0.01	15 (1%) 68 76	6, 14, 23, 29	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	2	SER	3.9
1	С	2	SER	3.1
1	С	87	LEU	3.1
1	В	205	THR	2.9
1	С	212	HIS	2.8
1	A	57	GLU	2.5
1	В	57	GLU	2.4
1	С	58	GLY	2.4
1	В	116	LEU	2.4
1	D	2	SER	2.4
1	С	57	GLU	2.4
1	A	205	THR	2.3
1	A	120	GLU	2.2
1	В	120	GLU	2.2
1	D	143	GLN	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, 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	GOL	A	3969	6/6	0.92	0.15	15,21,23,26	0
2	GOL	В	3968	6/6	0.92	0.14	14,20,22,26	0
3	CL	В	527	1/1	0.95	0.07	20,20,20,20	0
3	CL	С	523	1/1	0.95	0.07	21,21,21,21	0
3	CL	A	528	1/1	0.98	0.05	19,19,19,19	0
3	CL	D	522	1/1	0.98	0.05	21,21,21,21	0
3	CL	В	525	1/1	0.99	0.04	19,19,19,19	0
3	CL	С	524	1/1	0.99	0.05	21,21,21,21	0
3	CL	A	526	1/1	0.99	0.05	21,21,21,21	0

6.5 Other polymers (i)

There are no such residues in this entry.

