



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 07:27 AM UTC

PDB ID : 9HUO / pdb_00009huo
Title : A01 mAbs bound to cobratoxin at pH 5.5
Authors : Wade, J.W.; Bohn, M.F.; Laustsen, A.H.; Morth, J.P.
Deposited on : 2024-12-23
Resolution : 1.60 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

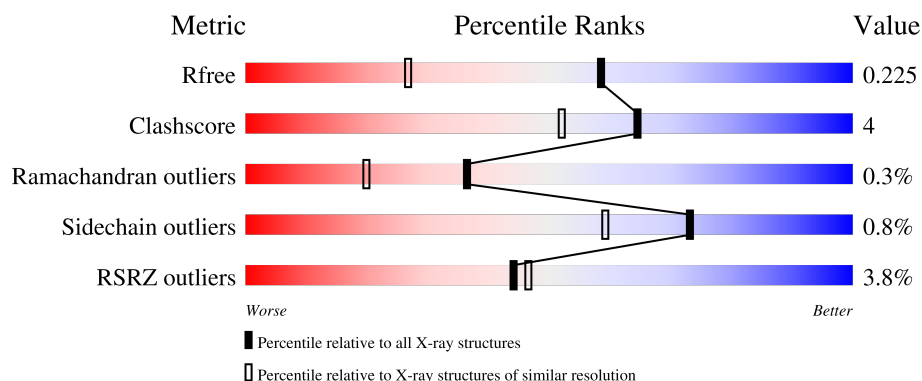
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 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.



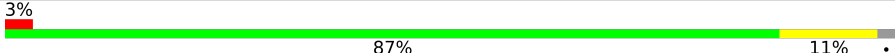
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4673 (1.60-1.60)
Clashscore	190562	4931 (1.60-1.60)
Ramachandran outliers	187476	4831 (1.60-1.60)
Sidechain outliers	187428	4830 (1.60-1.60)
RSRZ outliers	180081	4672 (1.60-1.60)

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	71	4% 87%13%
1	B	71	% 90%10%
2	C	144	6% 83%7%9%
2	I	144	5% 83%8%9%
3	D	117	2% 97%..

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Mol	Chain	Length	Quality of chain
3	M	117	 A horizontal bar chart showing the quality of chain M. The bar is divided into three segments: a small red segment at the beginning labeled '3%', a large green segment in the middle labeled '87%', and a small yellow segment at the end labeled '11%'. A small grey dot is visible at the far right end of the bar.

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 10181 atoms, of which 4677 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 Alpha-cobratoxin.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	71	Total	C	H	N	O	S	0	1	0
			1082	337	535	99	101	10			
1	B	71	Total	C	H	N	O	S	0	1	0
			1082	337	532	100	103	10			

- Molecule 2 is a protein called light chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	I	131	Total	C	H	N	O	S	0	5	0
			1987	647	960	167	203	10			
2	C	131	Total	C	H	N	O	S	0	6	0
			2007	647	977	169	205	9			

- Molecule 3 is a protein called heavy chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
3	M	115	Total	C	H	N	O	S	0	3	0
			1700	543	820	151	184	2			
3	D	115	Total	C	H	N	O	S	0	4	0
			1694	543	815	150	184	2			

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			14	3	8	3		
4	M	1	Total	C	H	O	0	0
			14	3	8	3		
4	B	1	Total	C	H	O	0	0
			14	3	8	3		
4	B	1	Total	C	H	O	0	0
			14	3	8	3		
4	D	1	Total	C	H	O	0	0
			12	3	6	3		

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Cl	0	0
			1	1		

- Molecule 6 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	I	1	Total	K	0	0
			1	1		

- Molecule 7 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	C	1	Total	Na	0	0
			1	1		
7	D	1	Total	Na	0	0
			1	1		

- Molecule 8 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	C	1	Total	O	S	0	0
			5	4	1		

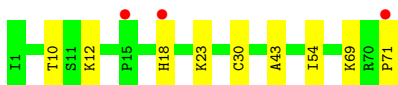
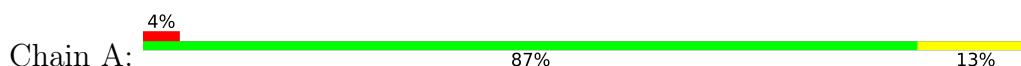
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	57	Total	O	0	0
			57	57		
9	I	83	Total	O	0	0
			83	83		
9	M	111	Total	O	0	0
			111	111		
9	B	63	Total	O	0	0
			63	63		
9	C	112	Total	O	0	0
			112	112		
9	D	126	Total	O	0	0
			126	126		

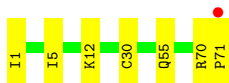
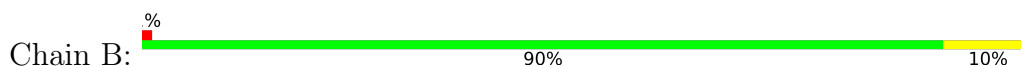
3 Residue-property plots [i](#)

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.

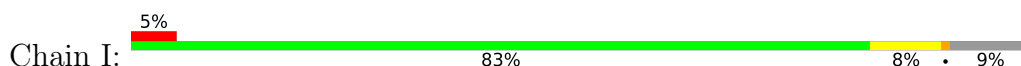
- Molecule 1: Alpha-cobratoxin



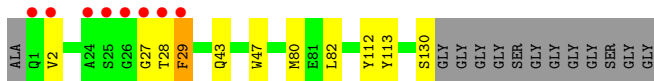
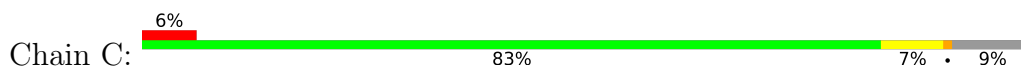
- Molecule 1: Alpha-cobratoxin



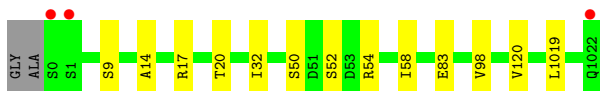
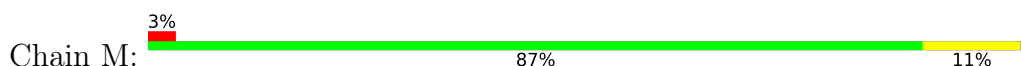
- Molecule 2: light chain



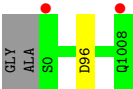
- Molecule 2: light chain



- Molecule 3: heavy chain



- Molecule 3: heavy chain



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	76.87Å 83.15Å 98.34Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.58 – 1.60 41.58 – 1.60	Depositor EDS
% Data completeness (in resolution range)	99.4 (41.58-1.60) 99.4 (41.58-1.60)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.31 (at 1.60Å)	Xtrriage
Refinement program	PHENIX 1.21rc1_5156	Depositor
R, R_{free}	0.183 , 0.225 0.184 , 0.225	Depositor DCC
R_{free} test set	4084 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å ²)	20.7	Xtrriage
Anisotropy	0.746	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 45.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	10181	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 51.50 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 5.5592e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: K, GOL, CL, SO4, NA

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	0.41	0/562	0.63	0/761
1	B	0.36	0/562	0.58	0/762
2	C	0.41	0/1070	0.63	0/1449
2	I	0.40	0/1057	0.64	0/1430
3	D	0.42	0/915	0.60	0/1251
3	M	0.42	0/908	0.60	0/1241
All	All	0.41	0/5074	0.62	0/6894

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	I	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	I	66	ARG	Sidechain

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	547	535	537	8	0
1	B	550	532	531	10	0
2	C	1030	977	963	8	0
2	I	1027	960	975	10	0
3	D	879	815	798	1	0
3	M	880	820	813	7	0
4	A	6	8	8	0	0
4	B	12	16	16	2	0
4	D	6	6	8	0	0
4	M	6	8	8	0	0
5	A	1	0	0	0	0
6	I	1	0	0	0	0
7	C	1	0	0	0	0
7	D	1	0	0	0	0
8	C	5	0	0	0	0
9	A	57	0	0	1	0
9	B	63	0	0	2	0
9	C	112	0	0	1	0
9	D	126	0	0	0	0
9	I	83	0	0	0	0
9	M	111	0	0	0	0
All	All	5504	4677	4657	38	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 4.

All (38) 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)
2:I:80[B]:MET:HE1	2:I:82:LEU:HB2	1.81	0.62
2:C:28:THR:O	2:C:29:PHE:HB2	2.00	0.60
1:A:10:THR:OG1	1:A:12:LYS:CE	2.51	0.58
3:M:52:SER:OG	1:B:55[B]:GLN:NE2	2.23	0.56
1:B:1:ILE:N	4:B:101:GOL:H2	2.22	0.55
3:M:14:ALA:HB1	3:M:1019:LEU:HD23	1.90	0.54
1:A:10:THR:OG1	1:A:12:LYS:HE3	2.08	0.53
1:B:12:LYS:NZ	9:B:202:HOH:O	2.40	0.53
1:B:70:ARG:NH1	9:B:203:HOH:O	2.41	0.53
2:I:46:GLU:OE2	2:I:62:LYS:NZ	2.38	0.49
1:A:10:THR:OG1	1:A:12:LYS:HE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:5:ILE:HG13	1:B:12:LYS:HG2	1.94	0.48
2:I:80[B]:MET:O	2:I:80[B]:MET:HG3	2.13	0.48
2:I:29:PHE:O	2:I:30:SER:CB	2.61	0.48
1:A:30:CYS:HB3	1:B:30:CYS:HB3	1.95	0.48
2:I:54:PHE:O	2:I:56:THR:HG23	2.13	0.48
2:C:80[B]:MET:O	2:C:80[B]:MET:HG3	2.13	0.48
3:M:14:ALA:HB3	3:M:17:ARG:HG3	1.97	0.47
2:C:80[B]:MET:HE1	2:C:82:LEU:HB2	1.95	0.47
2:I:29:PHE:HD1	2:I:30:SER:N	2.13	0.46
3:M:54[B]:ARG:NH1	3:M:58:ILE:O	2.48	0.45
2:I:80[B]:MET:CE	2:I:82:LEU:HB2	2.46	0.45
2:I:47:TRP:CG	3:M:98:VAL:HB	2.52	0.45
1:A:23[B]:LYS:HG2	1:A:54:ILE:HD12	1.99	0.44
2:C:43:GLN:NE2	2:C:43:GLN:HA	2.33	0.43
2:C:113:TYR:HE1	9:C:382:HOH:O	2.01	0.43
1:B:1:ILE:H2	4:B:101:GOL:H2	1.82	0.43
1:A:71:PRO:HG2	1:B:71:PRO:HG2	2.00	0.43
3:M:32:ILE:CG2	3:M:50:SER:HA	2.50	0.42
1:B:70:ARG:HD2	2:C:112:TYR:CE2	2.54	0.42
2:I:36:TRP:CE2	2:I:80[B]:MET:HB3	2.54	0.42
2:I:29:PHE:O	2:I:30:SER:HB3	2.20	0.41
3:M:83:GLU:HG3	3:M:120:VAL:O	2.20	0.41
1:B:70:ARG:NH2	3:D:96:ASP:OD1	2.52	0.41
1:A:18:HIS:ND1	1:A:43:ALA:O	2.54	0.40
2:C:2:VAL:HG23	2:C:27:GLY:HA3	2.03	0.40
1:A:69:LYS:NZ	9:A:204:HOH:O	2.53	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	70/71 (99%)	65 (93%)	5 (7%)	0	100	100
1	B	70/71 (99%)	67 (96%)	3 (4%)	0	100	100
2	C	135/144 (94%)	129 (96%)	5 (4%)	1 (1%)	18	6
2	I	134/144 (93%)	131 (98%)	2 (2%)	1 (1%)	18	6
3	D	117/117 (100%)	114 (97%)	3 (3%)	0	100	100
3	M	116/117 (99%)	111 (96%)	5 (4%)	0	100	100
All	All	642/664 (97%)	617 (96%)	23 (4%)	2 (0%)	36	20

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	I	30	SER
2	C	29	PHE

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	65/64 (102%)	65 (100%)	0	100	100
1	B	65/64 (102%)	65 (100%)	0	100	100
2	C	111/108 (103%)	110 (99%)	1 (1%)	70	55
2	I	110/108 (102%)	108 (98%)	2 (2%)	51	28
3	D	99/96 (103%)	99 (100%)	0	100	100
3	M	98/96 (102%)	96 (98%)	2 (2%)	48	24
All	All	548/536 (102%)	543 (99%)	5 (1%)	73	55

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

Mol	Chain	Res	Type
2	I	31[A]	SER
2	I	31[B]	SER
3	M	9	SER

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Mol	Chain	Res	Type
3	M	20	THR
2	C	130	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
2	I	99	ASN
3	M	30	GLN
3	M	37	GLN
3	M	42	GLN
2	C	39	GLN
2	C	43	GLN
2	C	99	ASN
3	D	38	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 4 are monoatomic - leaving 6 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	GOL	B	102	-	5,5,5	0.29	0	5,5,5	0.42	0
4	GOL	B	101	-	5,5,5	0.35	0	5,5,5	0.77	0
4	GOL	D	1101	-	5,5,5	0.37	0	5,5,5	0.70	0
8	SO4	C	202	-	4,4,4	0.66	0	6,6,6	0.56	0
4	GOL	A	101	-	5,5,5	0.32	0	5,5,5	0.71	0
4	GOL	M	1201	-	5,5,5	0.25	0	5,5,5	1.26	1 (20%)

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
4	GOL	B	102	-	-	0/4/4/4	-
4	GOL	B	101	-	-	4/4/4/4	-
4	GOL	D	1101	-	-	2/4/4/4	-
4	GOL	A	101	-	-	0/4/4/4	-
4	GOL	M	1201	-	-	2/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	1201	GOL	O2-C2-C1	2.16	118.13	109.18

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	M	1201	GOL	O1-C1-C2-C3
4	B	101	GOL	O1-C1-C2-C3
4	B	101	GOL	C1-C2-C3-O3
4	D	1101	GOL	O1-C1-C2-C3
4	M	1201	GOL	O1-C1-C2-O2
4	B	101	GOL	O2-C2-C3-O3
4	D	1101	GOL	O1-C1-C2-O2
4	B	101	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	101	GOL	2	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

6.1 Protein, DNA and RNA chains

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	71/71 (100%)	0.19	3 (4%)	40 42	19, 31, 61, 71	1 (1%)
1	B	71/71 (100%)	0.08	1 (1%)	73 78	18, 31, 57, 68	1 (1%)
2	C	131/144 (90%)	0.11	8 (6%)	27 27	12, 28, 56, 97	4 (3%)
2	I	131/144 (90%)	0.17	7 (5%)	32 33	12, 30, 68, 85	4 (3%)
3	D	115/117 (98%)	-0.12	2 (1%)	69 72	16, 29, 47, 97	2 (1%)
3	M	115/117 (98%)	0.00	3 (2%)	57 60	16, 30, 51, 99	2 (1%)
All	All	634/664 (95%)	0.07	24 (3%)	44 46	12, 30, 59, 99	14 (2%)

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	C	29	PHE	5.5
2	C	27	GLY	3.9
2	I	29	PHE	3.6
2	C	26	GLY	3.6
2	I	26	GLY	3.4
2	C	24	ALA	3.4
2	I	25	SER	3.3
3	D	1008	GLN	3.2
2	C	28	THR	3.2
3	M	0	SER	3.0
2	I	24	ALA	2.9
2	C	25	SER	2.8
2	C	2	VAL	2.7
1	A	71	PRO	2.6
2	I	2	VAL	2.6
3	M	1022	GLN	2.6
1	B	71	PRO	2.6
1	A	18	HIS	2.5
2	I	30	SER	2.4

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Mol	Chain	Res	Type	RSRZ
3	D	0	SER	2.3
2	C	1	GLN	2.3
3	M	1	SER	2.3
1	A	15	PRO	2.2
2	I	28	THR	2.2

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($\text{\AA}^2$)	Q<0.9
4	GOL	M	1201	6/6	0.63	0.18	36,47,59,65	0
4	GOL	A	101	6/6	0.66	0.15	39,55,68,70	0
4	GOL	B	102	6/6	0.73	0.15	37,66,85,102	0
4	GOL	B	101	6/6	0.78	0.13	36,43,52,52	0
5	CL	A	102	1/1	0.83	0.23	53,53,53,53	0
7	NA	C	201	1/1	0.91	0.19	35,35,35,35	0
8	SO4	C	202	5/5	0.91	0.10	40,41,44,53	0
4	GOL	D	1101	6/6	0.92	0.09	30,37,55,55	0
6	K	I	201	1/1	0.94	0.47	62,62,62,62	0
7	NA	D	1102	1/1	0.97	0.13	37,37,37,37	0

6.5 Other polymers [i](#)

There are no such residues in this entry.