

wwPDB X-ray Structure Validation Summary Report (i)

Oct 27, 2023 – 02:39 AM EDT

:	3MEZ
:	X-ray structural analysis of a mannose specific lectin from dutch crocus (crocus
	vernus)
:	Akrem, A.; Meyer, A.; Perbandt, M.; Voelter, W.; Buck, F.; Betzel, C.
:	2010-04-01
:	1.94 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 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:

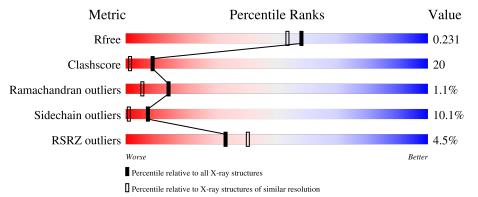
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 1.94 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	4310 (1.96-1.92)
Clashscore	141614	1023 (1.94-1.94)
Ramachandran outliers	138981	1007 (1.94-1.94)
Sidechain outliers	138945	1007 (1.94-1.94)
RSRZ outliers	127900	4250 (1.96-1.92)

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	А	111	71%	23%	5% •
1	С	111	73%	21%	5%•
2	В	113	3% 68%	19%	10% •
2	D	113	65%	24%	8% ••

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:	
Mol Type Chain Res Chirality Geometry Clashes Electron density	

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	FMT	В	114	-	-	Х	-
4	FMT	D	114	-	-	Х	-
4	FMT	D	115	-	-	Х	-



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 3765 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	111	Total	С	Ν	0	S	0	0	0
	A		845	522	153	167	3	0	0	0
1	C	110	Total	С	Ν	0	S	0	0	0
	U	110	840	519	152	166	3	0	0	0

• Molecule 1 is a protein called Mannose-specific lectin 3 chain 1.

Chain	Residue	Modelled	Actual	Comment	Reference
А	12	HIS	SER	SEE REMARK 999	UNP P86626
А	51	ASP	ASN	SEE REMARK 999	UNP P86626
А	84	ARG	GLN	SEE REMARK 999	UNP P86626
А	90	THR	VAL	SEE REMARK 999	UNP P86626
А	111	ALA	-	SEE REMARK 999	UNP P86626
С	12	HIS	SER	SEE REMARK 999	UNP P86626
С	51	ASP	ASN	SEE REMARK 999	UNP P86626
С	84	ARG	GLN	SEE REMARK 999	UNP P86626
С	90	THR	VAL	SEE REMARK 999	UNP P86626
С	111	ALA	-	SEE REMARK 999	UNP P86626

There are 10 discrepancies between the modelled and reference sequences:

• Molecule 2 is a protein called Mannose-specific lectin 3 chain 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
0	В	113	Total	С	Ν	0	S	0	0	0
	2 Б	115	874	543	156	170	5			
0	Л	112	Total	С	Ν	0	S	0	0	0
		112	869	540	155	169	5			0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	15	MET	GLN	SEE REMARK 999	UNP P86626
В	42	SER	GLY	SEE REMARK 999	UNP P86626

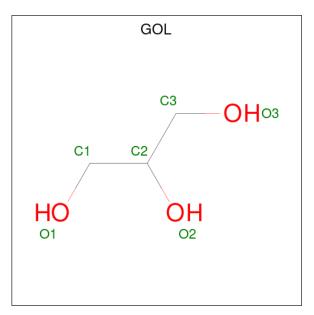
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Chain	Residue	Modelled	Actual	Comment	Reference
В	43	LYS	GLN	SEE REMARK 999	UNP P86626
В	47	VAL	SER	SEE REMARK 999	UNP P86626
В	68	GLU	GLN	SEE REMARK 999	UNP P86626
В	78	THR	SER	SEE REMARK 999	UNP P86626
В	113	ALA	-	SEE REMARK 999	UNP P86626
D	15	MET	GLN	SEE REMARK 999	UNP P86626
D	42	SER	GLY	SEE REMARK 999	UNP P86626
D	43	LYS	GLN	SEE REMARK 999	UNP P86626
D	47	VAL	SER	SEE REMARK 999	UNP P86626
D	68	GLU	GLN	SEE REMARK 999	UNP P86626
D	78	THR	SER	SEE REMARK 999	UNP P86626
D	113	ALA	_	SEE REMARK 999	UNP P86626

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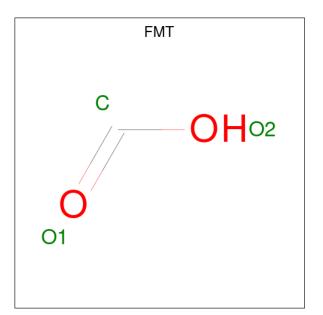
• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	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	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
3	С	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 3 3 \end{array}$	0	0

• Molecule 4 is FORMIC ACID (three-letter code: FMT) (formula: CH_2O_2).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 3 1 2 \end{array}$	0	0
4	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 3 1 2 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 3 & 1 & 2 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 3 1 2 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 3 1 2 \end{array}$	0	0
4	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 3 & 1 & 2 \end{array}$	0	0
4	D	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 3 & 1 & 2 \end{array}$	0	0
4	D	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 3 & 1 & 2 \end{array}$	0	0

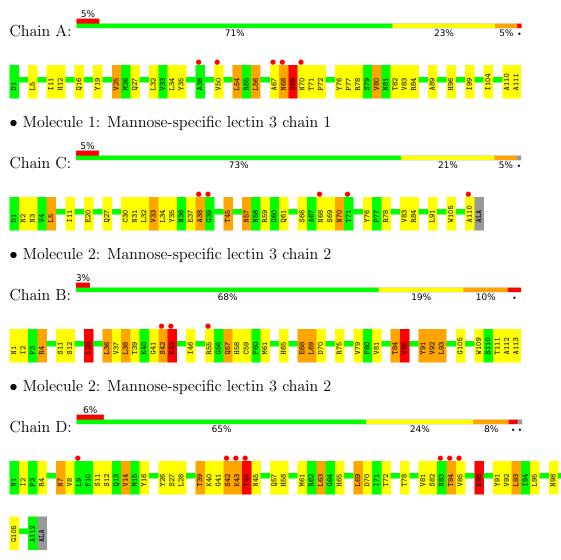
• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	70	Total O 70 70	0	0
5	В	66	Total O 66 66	0	0
5	С	83	Total O 83 83	0	0
5	D	76	Total O 76 76	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: Mannose-specific lectin 3 chain 1



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	48.42Å 98.15Å 105.83Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 - 1.94	Depositor
Resolution (A)	28.64 - 1.94	EDS
% Data completeness	85.5 (30.00-1.94)	Depositor
(in resolution range)	85.5(28.64-1.94)	EDS
R _{merge}	0.10	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.63 (at 1.93 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
B B.	0.178 , 0.225	Depositor
R, R_{free}	0.190 , 0.231	DCC
R_{free} test set	1647 reflections (5.05%)	wwPDB-VP
Wilson B-factor $(Å^2)$	24.4	Xtriage
Anisotropy	0.098	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.37, 59.6	EDS
L-test for twinning ²	$ \langle L \rangle = 0.49, \langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3765	wwPDB-VP
Average B, all atoms $(Å^2)$	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.54% 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, FMT

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).

Mal	Mol Chain		nd lengths	Bond angles	
			# Z > 5	RMSZ	# Z > 5
1	А	1.52	1/864~(0.1%)	0.95	2/1184~(0.2%)
1	С	1.58	2/859~(0.2%)	0.93	1/1177~(0.1%)
2	В	1.55	5/888~(0.6%)	0.95	3/1206~(0.2%)
2	D	1.58	2/883~(0.2%)	1.06	6/1199~(0.5%)
All	All	1.56	10/3494~(0.3%)	0.98	12/4766~(0.3%)

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
1	А	0	1
2	D	0	2
All	All	0	3

The worst 5 of 10 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	С	76	TYR	CD2-CE2	-7.38	1.28	1.39
2	D	88	GLU	CB-CG	-6.88	1.39	1.52
2	В	92	VAL	CB-CG2	-6.46	1.39	1.52
2	В	59	CYS	CB-SG	-6.21	1.71	1.82
2	D	14	VAL	CB-CG2	-5.85	1.40	1.52

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	D	43	LYS	N-CA-C	-7.38	91.06	111.00
2	D	4	ARG	NE-CZ-NH1	6.99	123.79	120.30

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Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	D	93	LEU	CA-CB-CG	6.66	130.63	115.30
2	В	28	LEU	CA-CB-CG	6.08	129.28	115.30
2	В	93	LEU	CA-CB-CG	5.83	128.71	115.30

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There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	А	69	SER	Peptide
2	D	41	GLY	Peptide
2	D	44	THR	Peptide

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	845	0	795	32	0
1	С	840	0	790	28	0
2	В	874	0	854	40	0
2	D	869	0	849	47	0
3	А	12	0	16	1	0
3	С	6	0	8	1	0
4	А	6	0	2	0	0
4	В	9	0	3	3	0
4	С	3	0	1	1	0
4	D	6	0	2	7	0
5	А	70	0	0	4	0
5	В	66	0	0	3	0
5	С	83	0	0	8	0
5	D	76	0	0	5	0
All	All	3765	0	3320	138	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 20.

The worst 5 of 138 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:B:75:ARG:NH2	5:B:684:HOH:O	1.76	1.14
2:B:4:ARG:HH21	2:B:4:ARG:HG2	1.21	1.04
2:B:42:SER:O	2:B:43:LYS:HB2	1.62	0.99
2:D:42:SER:C	2:D:44:THR:N	2.12	0.99
2:D:42:SER:C	2:D:44:THR:H	1.63	0.97

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	А	109/111~(98%)	106~(97%)	2(2%)	1 (1%)	17	7
1	С	108/111~(97%)	107~(99%)	0	1 (1%)	17	7
2	В	111/113~(98%)	103~(93%)	5(4%)	3~(3%)	5	0
2	D	110/113~(97%)	106 (96%)	4 (4%)	0	100	100
All	All	438/448 (98%)	422 (96%)	11 (2%)	5 (1%)	14	5

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	69	SER
2	В	42	SER
2	В	43	LYS
2	В	85	VAL
1	С	38	ALA

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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.



Mol	Chain	Analysed	Rotameric Outliers		Percentiles		
1	А	91/91~(100%)	83~(91%)	8~(9%)	10	2	
1	С	91/91~(100%)	82~(90%)	9 (10%)	8	1	
2	В	97/97~(100%)	87 (90%)	10 (10%)	7	1	
2	D	97/97~(100%)	86~(89%)	11 (11%)	6	1	
All	All	376/376~(100%)	338~(90%)	38 (10%)	7	1	

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

5 of 38 residues with a non-rotameric sidechain are listed below:

Mol	Chain	\mathbf{Res}	Type
2	D	14	VAL
2	D	88	GLU
2	D	28	LEU
2	D	44	THR
2	D	95	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 21 such sidechains are listed below:

Mol	Chain	Res	Type
1	С	57	ASN
1	С	96	HIS
2	D	65	HIS
2	D	7	ASN
1	С	81	ASN

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)

11 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	Turne	Chain	Res	Link	В	ond leng	gths	В	ond ang	gles
IVIOI	Type	Unam	Ites Lim	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
4	FMT	В	115	-	2,2,2	0.41	0	$1,\!1,\!1$	0.03	0
4	FMT	В	116	-	2,2,2	0.74	0	1,1,1	0.30	0
4	FMT	А	115	-	2,2,2	0.70	0	$1,\!1,\!1$	0.46	0
4	FMT	D	114	-	2,2,2	0.45	0	1,1,1	0.38	0
4	FMT	В	114	-	$2,\!2,\!2$	0.71	0	$1,\!1,\!1$	0.63	0
3	GOL	С	112	-	$5,\!5,\!5$	0.46	0	$5,\!5,\!5$	0.95	0
4	FMT	А	114	-	2,2,2	0.73	0	$1,\!1,\!1$	0.44	0
3	GOL	А	112	-	$5,\!5,\!5$	0.72	0	$5,\!5,\!5$	1.01	0
4	FMT	С	113	-	$2,\!2,\!2$	0.56	0	$1,\!1,\!1$	0.01	0
3	GOL	А	113	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	1.46	1 (20%)
4	FMT	D	115	-	2,2,2	0.64	0	$1,\!1,\!1$	0.17	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	А	113	-	-	2/4/4/4	-
3	GOL	А	112	-	-	2/4/4/4	-
3	GOL	С	112	-	-	0/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	А	113	GOL	C3-C2-C1	-2.90	100.42	111.70

There are no chirality outliers.

All (4) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
3	А	112	GOL	O1-C1-C2-C3
3	А	113	GOL	O1-C1-C2-C3
3	А	113	GOL	O1-C1-C2-O2
3	А	112	GOL	O1-C1-C2-O2

There are no ring outliers.

6 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	D	114	FMT	5	0
4	В	114	FMT	3	0
3	С	112	GOL	1	0
3	А	112	GOL	1	0
4	С	113	FMT	1	0
4	D	115	FMT	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 (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 $>$	$\#\mathbf{RS}$	RZ>	>2	$\mathbf{OWAB}(\mathrm{\AA}^2)$	$Q{<}0.9$
1	А	$111/111 \ (100\%)$	0.01	5(4%)	33	40	17, 25, 41, 49	9~(8%)
1	С	110/111~(99%)	-0.07	5 (4%)	33	40	14, 21, 38, 46	13 (11%)
2	В	113/113~(100%)	0.03	3 (2%)	54	61	18, 24, 37, 47	10 (8%)
2	D	112/113~(99%)	0.13	7~(6%)	20	26	14, 22, 36, 50	12 (10%)
All	All	446/448~(99%)	0.03	20 (4%)	33	40	14, 23, 38, 50	44 (9%)

The worst 5 of 20 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	44	THR	9.3
2	D	43	LYS	6.5
2	В	42	SER	4.8
2	D	83	ASN	4.6
2	D	85	VAL	4.6

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	$\operatorname{B-factors}(\operatorname{\AA}^2)$	Q < 0.9
4	FMT	В	115	3/3	0.71	0.23	46, 46, 48, 49	0
4	FMT	В	116	3/3	0.77	0.15	35,35,40,40	0
4	FMT	А	115	3/3	0.85	0.18	52,52,52,53	0
4	FMT	D	115	3/3	0.85	0.13	40,40,42,43	0
3	GOL	А	113	6/6	0.86	0.17	45,47,48,52	0
4	FMT	D	114	3/3	0.93	0.10	38,38,39,39	0
4	FMT	С	113	3/3	0.93	0.31	36,36,38,39	0
4	FMT	А	114	3/3	0.95	0.16	$53,\!53,\!54,\!55$	0
3	GOL	С	112	6/6	0.96	0.07	33,37,37,42	0
3	GOL	А	112	6/6	0.96	0.09	36,37,39,39	0
4	FMT	В	114	3/3	0.97	0.08	30,30,31,33	0

6.5 Other polymers (i)

There are no such residues in this entry.

