

Full wwPDB X-ray Structure Validation Report (i)

May 1, 2021 - 08:02 am BST

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

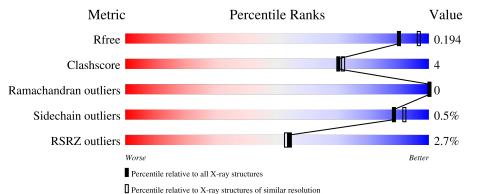
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.18
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25 th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.18

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 2.00 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	$\begin{array}{c} \textbf{Whole archive} \\ (\# \textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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		
-	٨	070	2%		
	А	270	77%	7%	16%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 2106 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 Green fluorescent protein.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	226	Total 1856	C 1171	N 312	O 367	S 6	0	7	0

Chain	Residue	Modelled	Actual	Comment	Reference
А	-33	MET	-	initiating methionine	UNP A0A059PIQ0
A	-32	ARG	_	expression tag	UNP A0A059PIQ0
А	-31	GLY	_	expression tag	UNP A0A059PIQ0
A	-30	SER	-	expression tag	UNP A0A059PIQ0
A	-29	HIS	-	expression tag	UNP A0A059PIQ0
A	-28	HIS	-	expression tag	UNP A0A059PIQ0
A	-27	HIS	-	expression tag	UNP A0A059PIQ0
A	-26	HIS	-	expression tag	UNP A0A059PIQ0
A	-25	HIS	-	expression tag	UNP A0A059PIQ0
A	-24	HIS	-	expression tag	UNP A0A059PIQ0
A	-23	GLY	-	expression tag	UNP A0A059PIQ0
A	-22	MET	-	expression tag	UNP A0A059PIQ0
A	-21	ALA	-	expression tag	UNP A0A059PIQ0
A	-20	SER	-	expression tag	UNP A0A059PIQ0
A	-19	MET	-	expression tag	UNP A0A059PIQ0
A	-18	THR	-	expression tag	UNP A0A059PIQ0
A	-17	GLY	-	expression tag	UNP A0A059PIQ0
A	-16	GLY	-	expression tag	UNP A0A059PIQ0
A	-15	GLN	-	expression tag	UNP A0A059PIQ0
А	-14	GLN	-	expression tag	UNP A0A059PIQ0
А	-13	MET	-	expression tag	UNP A0A059PIQ0
А	-12	GLY	-	expression tag	UNP A0A059PIQ0
А	-11	ARG	-	expression tag	UNP A0A059PIQ0
А	-10	ASP	-	expression tag	UNP A0A059PIQ0
А	-9	LEU	-	expression tag	UNP A0A059PIQ0
А	-8	TYR	-	expression tag	UNP A0A059PIQ0
A	-7	ASP	-	expression tag	UNP A0A059PIQ0

There are 52 discrepancies between the modelled and reference sequences:

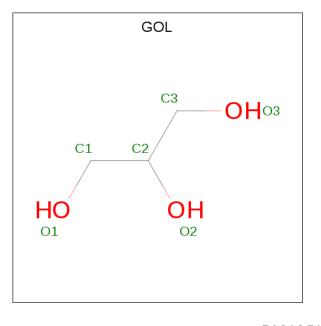
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Chain	Residue	Modelled	Actual	Comment	Reference
А	-6	ASP	-	expression tag	UNP A0A059PIQ0
А	-5	ASP	-	expression tag	UNP A0A059PIQ0
А	-4	ASP	-	expression tag	UNP A0A059PIQ0
А	-3	LYS	-	expression tag	UNP A0A059PIQ0
A	-2	ASP	-	expression tag	UNP A0A059PIQ0
A	-1	PRO	-	expression tag	UNP A0A059PIQ0
A	0	MET	-	expression tag	UNP A0A059PIQ0
A	1	VAL	-	expression tag	UNP A0A059PIQ0
A	2	SER	-	expression tag	UNP A0A059PIQ0
A	30	ARG	SER	$\operatorname{conflict}$	UNP A0A059PIQ0
A	44	MET	LEU	$\operatorname{conflict}$	UNP A0A059PIQ0
A	66	CRO	THR	$\operatorname{chromophore}$	UNP A0A059PIQ0
A	66	CRO	TYR	$\operatorname{chromophore}$	UNP A0A059PIQ0
A	66	CRO	GLY	$\operatorname{chromophore}$	UNP A0A059PIQ0
A	69	LEU	GLN	$\operatorname{conflict}$	UNP A0A059PIQ0
A	101	GLU	LYS	$\operatorname{conflict}$	UNP A0A059PIQ0
A	105	TYR	THR	$\operatorname{conflict}$	UNP A0A059PIQ0
A	149	ASP	ASN	$\operatorname{conflict}$	UNP A0A059PIQ0
A	150	ALA	VAL	$\operatorname{conflict}$	UNP A0A059PIQ0
A	162	ARG	LYS	$\operatorname{conflict}$	UNP A0A059PIQ0
A	163	SER	ALA	conflict	UNP A0A059PIQ0
A	169	LEU	HIS	conflict	UNP A0A059PIQ0
A	205	ASN	SER	conflict	UNP A0A059PIQ0
А	227	SER	ALA	$\operatorname{conflict}$	UNP A0A059PIQ0
А	231	LEU	HIS	$\operatorname{conflict}$	UNP A0A059PIQ0

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• Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).

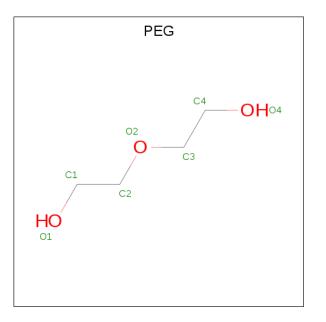






Mo	Chain	Residues	Atoms		ZeroOcc	AltConf	
2	A	1	Total 6	${ m C} { m 3}$	O 3	0	0

• Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 4 & 3 \end{array}$	0	0

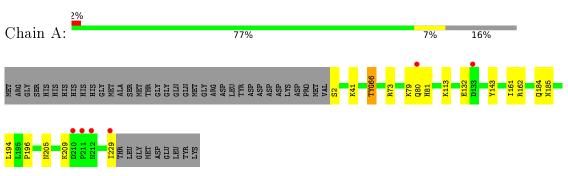
• Molecule 4 is water.

M	ol	Chain	Residues	Atoms		ZeroOcc	AltConf
4		А	237	Total 237	O 237	0	4



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: Green fluorescent protein



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants	73.55Å 73.55Å 114.38Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.34 - 2.00	Depositor
Resolution (A)	47.34 - 2.00	EDS
% Data completeness	99.9 (47.34-2.00)	Depositor
(in resolution range)	$100.0 \ (47.34 - 2.00)$	EDS
R _{merge}	0.05	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$5.65 (at 2.00 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.11	Depositor
D D.	0.159 , 0.194	Depositor
R, R_{free}	0.159 , 0.194	DCC
R_{free} test set	1141 reflections (5.21%)	wwPDB-VP
Wilson B-factor $(Å^2)$	36.7	Xtriage
Anisotropy	0.476	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.35 , 57.4	EDS
L-test for twinning ²	$ \langle L \rangle = 0.50, \langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	2106	wwPDB-VP
Average B, all atoms $(Å^2)$	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.30% 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: PEG, CRO, 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		
MOI	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.36	0/1851	0.56	0/2506	

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	А	1856	0	1741	13	0
2	А	6	0	8	1	0
3	А	7	0	10	0	0
4	А	237	0	0	4	0
All	All	2106	0	1759	13	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 (13) 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:41:LYS:NZ	4:A:402:HOH:O	2.22	0.66
1:A:73:ARG:HH22	2:A:301:GOL:H32	1.64	0.62
1:A:80:GLN:HE21	1:A:196:PRO:HA	1.65	0.61
1:A:81:HIS:HB3	1:A:194:LEU:HB3	1.87	0.57
1:A:132:GLU:OE1	4:A:401:HOH:O	2.19	0.53
1:A:143:TYR:CZ	1:A:209:LYS:HE2	2.48	0.49
1:A:2:SER:N	4:A:411:HOH:O	2.47	0.47
1:A:66[C]:CRO:HE2	1:A:205:ASN:HD21	1.82	0.45
1:A:162:ARG:NH1	1:A:184:GLN:OE1	2.51	0.44
1:A:79:LYS:HA	4:A:583:HOH:O	2.20	0.42
1:A:161:ILE:HG13	1:A:185:ASN:HB2	2.02	0.41
1:A:80:GLN:HG2	1:A:229:ILE:HD12	2.03	0.41
1:A:80:GLN:HG2	1:A:229:ILE:CD1	2.51	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	\mathbf{ntiles}
1	А	227/270 (84%)	225~(99%)	2(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	А	197/233~(84%)	196~(100%)	1 (0%)	88 92

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	113	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	80	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)

2 non-standard protein/DNA/RNA residues 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).

Mal	Mol Type		Dec	Link	Bo	ond leng	$_{\rm ths}$	E	ond ang	gles
	Type	Chain	\mathbf{Res}		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
1	CRO	А	66[A]	1	23,23,24	2.71	7 (30%)	30,32,34	3.06	11 (36%)
1	CRO	А	66[C]	1	23,23,24	2.62	7 (30%)	30,32,34	2.45	9 (30%)

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	\mathbf{Res}	Link	Chirals	Torsions	Rings
1	CRO	А	66[A]	1	-	4/12/31/32	0/2/2/2

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Mol	Type	Chain	\mathbf{Res}	Link	Chirals	Torsions	Rings
1	CRO	А	66[C]	1	-	4/12/31/32	0/2/2/2

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
1	А	66[A]	CRO	CA2-C2	6.64	1.55	1.48
1	А	66[C]	CRO	C1-N2	6.08	1.41	1.32
1	А	66[C]	CRO	C1-N3	5.43	1.46	1.37
1	А	66[A]	CRO	C1-N3	5.39	1.46	1.37
1	А	66[A]	CRO	C1-N2	5.27	1.40	1.32
1	А	66[C]	CRO	CA2-C2	4.91	1.53	1.48
1	А	66[C]	CRO	OH-CZ	4.52	1.47	1.37
1	А	66[C]	CRO	CG2-CB2	4.24	1.55	1.46
1	А	66[A]	CRO	CG2-CB2	4.20	1.54	1.46
1	А	66[A]	CRO	OH-CZ	4.11	1.46	1.37
1	А	66[A]	CRO	C2-N3	3.25	1.47	1.39
1	А	66[A]	CRO	CB2-CA2	2.89	1.37	1.35
1	А	66[C]	CRO	C2-N3	2.87	1.46	1.39
1	А	66[C]	CRO	CA2-N2	2.52	1.43	1.38

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	66[C]	CRO	O2-C2-CA2	-8.09	126.42	130.96
1	А	66[A]	CRO	CA2-C2-N3	7.72	107.02	103.37
1	А	66[A]	CRO	CB2-CA2-C2	7.46	131.18	122.28
1	А	66[C]	CRO	CA2-C2-N3	6.54	106.46	103.37
1	А	66[A]	CRO	C2-N3-C1	-5.76	105.05	107.97
1	А	66[A]	CRO	CA2-N2-C1	5.20	109.60	105.77
1	А	66[A]	CRO	CG2-CB2-CA2	-4.69	124.20	129.94
1	А	66[A]	CRO	CB2-CA2-N2	-4.34	122.80	128.83
1	А	66[A]	CRO	O2-C2-CA2	-4.33	128.53	130.96
1	А	66[A]	CRO	C2-CA2-N2	-4.19	106.00	108.93
1	А	66[C]	CRO	CA2-N2-C1	3.59	108.42	105.77
1	А	66[C]	CRO	C2-N3-C1	-3.31	106.29	107.97
1	А	66[C]	CRO	CG2-CB2-CA2	-3.00	126.27	129.94
1	А	66[A]	CRO	C1-CA1-N1	-2.72	105.55	109.96
1	А	66[C]	CRO	CA1-C1-N3	-2.64	121.58	124.75
1	А	66[C]	CRO	O3-C3-CA3	-2.55	118.69	126.39
1	А	66[C]	CRO	C2-CA2-N2	-2.39	107.26	108.93
1	А	66[A]	CRO	O3-C3-CA3	-2.36	119.26	126.39
1	А	66[C]	CRO	CA1-C1-N2	2.12	126.85	123.89

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Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	А	66[A]	CRO	CD2-CG2-CD1	2.06	120.69	117.64

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Atoms
1	А	66[A]	CRO	N2-CA2-CB2-CG2
1	А	66[A]	CRO	C2-CA2-CB2-CG2
1	А	66[C]	CRO	N2-C1-CA1-CB1
1	А	66[C]	CRO	C2-CA2-CB2-CG2
1	А	66[C]	CRO	N2-CA2-CB2-CG2
1	А	66[A]	CRO	CA2-CB2-CG2-CD2
1	А	66[A]	CRO	CA2-CB2-CG2-CD1
1	А	66[C]	CRO	N3-C1-CA1-CB1

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	А	66[C]	CRO	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

2 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 Type	Chain	Chain	Chain	Res	Link	Bond lengths			Bond angles		
	Moi Type Chain	Chain	nes .		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
3	PEG	А	302	-	6,6,6	0.50	0	5,5,5	0.46	0	
2	GOL	А	301	-	5, 5, 5	0.38	0	$5,\!5,\!5$	0.24	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.

\mathbb{N}	/lol	Type	Chain	Res	Link	Chirals	Torsions	Rings
	3	PEG	А	302	-	-	1/4/4/4	-
	2	GOL	А	301	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	301	GOL	O1-C1-C2-C3
2	А	301	GOL	C1-C2-C3-O3
2	А	301	GOL	O1-C1-C2-O2
2	А	301	GOL	O2-C2-C3-O3
3	А	302	PEG	O2-C3-C4-O4

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	301	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 $>$ 2	$OWAB(Å^2)$	Q<0.9
1	А	225/270~(83%)	0.13	6 (2%) 54 53	26, 37, 61, 83	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	229	ILE	5.4
1	А	211	PRO	2.8
1	А	80	GLN	2.5
1	А	133	ASP	2.4
1	А	210	ASP	2.1
1	А	212	ASN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$\mathbf{Q}{<}0.9$
1	CRO	А	66[A]	22/23	0.96	0.17	$26,\!29,\!32,\!35$	22
1	CRO	А	66[C]	22/23	0.96	0.17	$25,\!30,\!37,\!39$	22

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	$\mathbf{B} ext{-factors}(\mathbf{\AA}^2)$	Q<0.9
3	PEG	А	302	7/7	0.70	0.30	$41,\!59,\!64,\!78$	0
2	GOL	А	301	6/6	0.81	0.15	$48,\!57,\!63,\!68$	0

6.5 Other polymers (i)

There are no such residues in this entry.

