



# Full wwPDB X-ray Structure Validation Report ⓘ

Sep 29, 2021 – 03:07 pm BST

PDB ID : 7AGZ  
Title : BsrV no-histagged  
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Deposited on : 2020-09-23  
Resolution : 1.52 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](mailto: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.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtrriage (Phenix) : 1.13  
EDS : 2.23.2  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0267  
CCP4 : 7.1.010 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.23.2

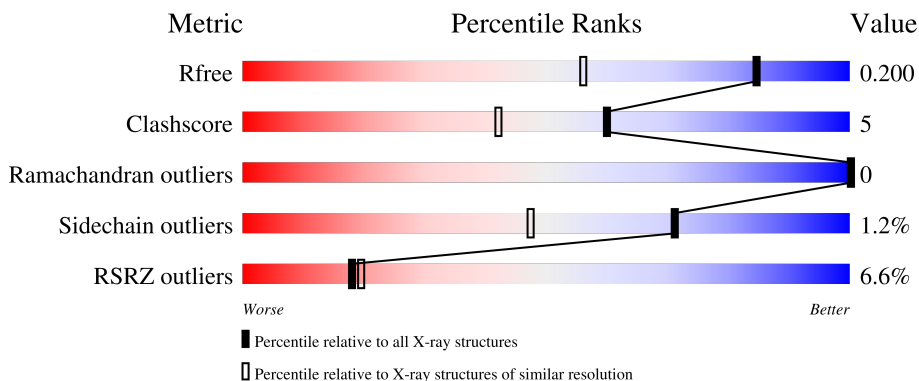
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

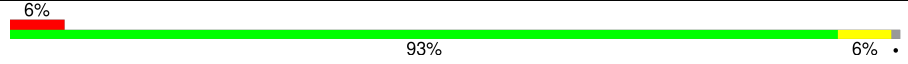

The reported resolution of this entry is 1.52 Å.

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))
$R_{free}$	130704	4009 (1.54-1.50)
Clashscore	141614	4249 (1.54-1.50)
Ramachandran outliers	138981	4148 (1.54-1.50)
Sidechain outliers	138945	4146 (1.54-1.50)
RSRZ outliers	127900	3943 (1.54-1.50)

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  $\geq 3$ , 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	390	
1	B	390	

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 6712 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 Broad specificity amino-acid racemase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	386	2975	1862	518	580	15	0	4	0
1	B	388	2990	1874	517	584	15	0	4	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	408	GLU	-	expression tag	UNP Q9KSE5
A	409	ASN	-	expression tag	UNP Q9KSE5
A	410	LEU	-	expression tag	UNP Q9KSE5
A	411	TYR	-	expression tag	UNP Q9KSE5
A	412	PHE	-	expression tag	UNP Q9KSE5
A	413	GLN	-	expression tag	UNP Q9KSE5
B	408	GLU	-	expression tag	UNP Q9KSE5
B	409	ASN	-	expression tag	UNP Q9KSE5
B	410	LEU	-	expression tag	UNP Q9KSE5
B	411	TYR	-	expression tag	UNP Q9KSE5
B	412	PHE	-	expression tag	UNP Q9KSE5
B	413	GLN	-	expression tag	UNP Q9KSE5

- Molecule 2 is PYRIDOXAL-5'-PHOSPHATE (three-letter code: PLP) (formula: C<sub>8</sub>H<sub>10</sub>NO<sub>6</sub>P).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	15	8	1	5	1	0	0
2	B	1	15	8	1	5	1	0	0

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



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

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Cl 1 1	0	0
4	B	1	Total Cl 1 1	0	0

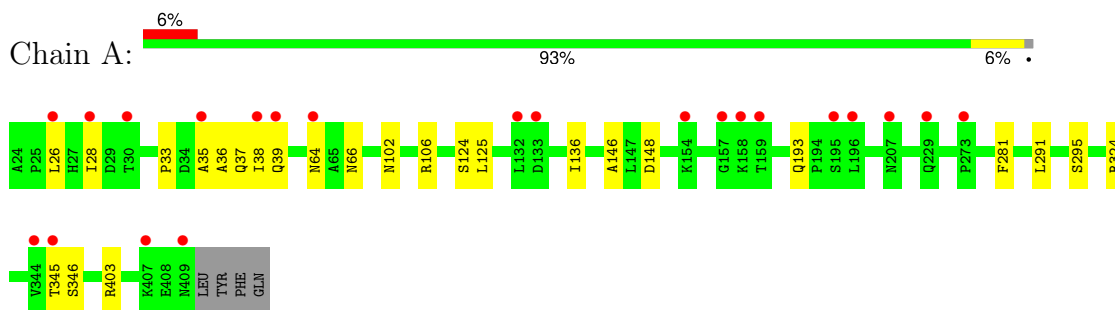
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	339	Total O 339 339	0	0
5	B	364	Total O 364 364	0	0

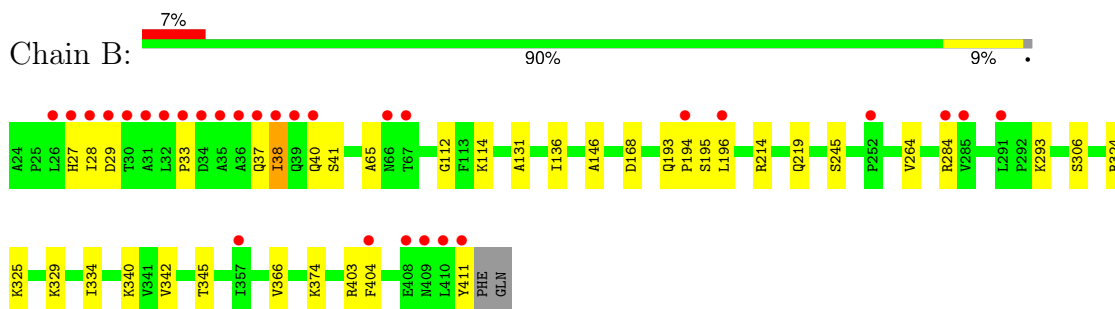
### 3 Residue-property plots [i](#)

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: Broad specificity amino-acid racemase



- Molecule 1: Broad specificity amino-acid racemase



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	54.03Å 82.09Å 160.21Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	51.20 – 1.52 51.20 – 1.52	Depositor EDS
% Data completeness (in resolution range)	99.8 (51.20-1.52) 95.4 (51.20-1.52)	Depositor EDS
$R_{merge}$	0.09	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.54 (at 1.52Å)	Xtrriage
Refinement program	PHENIX 1.18.2_3874, PHENIX 1.18.2_3874	Depositor
R, $R_{free}$	0.185 , 0.200 0.184 , 0.200	Depositor DCC
$R_{free}$ test set	7982 reflections (7.18%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	13.5	Xtrriage
Anisotropy	0.756	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	(Not available) , (Not available)	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	6712	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	20.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.36% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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 [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CL, PLP, 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	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.80	0/3025	0.84	1/4099 (0.0%)
1	B	0.69	0/3041	0.86	2/4122 (0.0%)
All	All	0.75	0/6066	0.85	3/8221 (0.0%)

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	A	0	3
1	B	0	6
All	All	0	9

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	214	ARG	NE-CZ-NH2	5.46	123.03	120.30
1	B	65	ALA	C-N-CA	-5.42	108.15	121.70
1	A	281	PHE	CB-CG-CD2	-5.36	117.05	120.80

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	28[A]	ILE	Mainchain
1	A	28[B]	ILE	Mainchain
1	A	346[A]	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	B	194	PRO	Mainchain
1	B	195[A]	SER	Mainchain
1	B	195[B]	SER	Mainchain
1	B	27	HIS	Mainchain

## 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	2975	0	2971	21	0
1	B	2990	0	2983	42	0
2	A	15	0	6	0	0
2	B	15	0	6	0	0
3	A	6	0	8	0	0
3	B	6	0	8	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	339	0	0	4	0
5	B	364	0	0	4	0
All	All	6712	0	5982	55	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 5.

All (55) 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:B:38:ILE:HG13	1:B:404:PHE:CE2	1.64	1.33
1:B:38:ILE:HG13	1:B:404:PHE:CZ	1.81	1.13
1:B:340:LYS:HE3	5:B:812:HOH:O	1.49	1.12
1:B:38:ILE:CG1	1:B:404:PHE:CE2	2.34	1.11
1:B:38:ILE:HG13	1:B:404:PHE:CD2	1.91	1.05
1:A:106[A]:ARG:HH22	1:B:40:GLN:HE22	1.01	0.95
1:B:38:ILE:CG1	1:B:404:PHE:CD2	2.52	0.91
1:A:102:ASN:HD22	1:B:40:GLN:HE21	1.17	0.91
1:A:106[A]:ARG:HH22	1:B:40:GLN:NE2	1.71	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:340:LYS:HE2	1:B:342:VAL:HG12	1.65	0.79
1:A:106[A]:ARG:NH2	1:B:40:GLN:HE22	1.79	0.77
1:A:26:LEU:HD21	1:B:37:GLN:HB3	1.65	0.77
1:A:146:ALA:HB1	1:A:193:GLN:HG3	1.66	0.75
1:B:146:ALA:HB1	1:B:193:GLN:HG3	1.70	0.73
1:B:38:ILE:HG13	1:B:404:PHE:CE1	2.24	0.73
1:A:124:SER:HB2	5:B:815:HOH:O	1.88	0.73
1:B:38:ILE:HG12	1:B:404:PHE:CE2	2.24	0.72
1:A:106[B]:ARG:NH1	5:A:601:HOH:O	2.27	0.67
1:A:35:ALA:O	1:A:38:ILE:HG22	1.96	0.65
1:B:38:ILE:CG1	1:B:404:PHE:CZ	2.67	0.65
1:B:38:ILE:HG13	1:B:404:PHE:CG	2.34	0.63
1:B:33:PRO:HB2	1:B:404:PHE:CE1	2.37	0.59
1:B:38:ILE:CD1	1:B:404:PHE:CD2	2.86	0.59
1:B:38:ILE:HD11	1:B:404:PHE:CD2	2.40	0.56
1:B:245:SER:HB3	1:B:264:VAL:HB	1.90	0.54
1:B:168:ASP:OD1	1:B:219:GLN:HG3	2.11	0.51
1:A:102:ASN:HD22	1:B:40:GLN:NE2	1.99	0.51
1:B:38:ILE:HG13	1:B:404:PHE:CD1	2.46	0.50
1:B:40:GLN:O	1:B:40:GLN:HG3	2.11	0.50
1:A:136:ILE:HG22	5:A:708:HOH:O	2.12	0.50
1:A:36:ALA:O	1:A:39:GLN:HG2	2.12	0.49
1:B:334:ILE:HG12	1:B:366:VAL:HG22	1.97	0.47
1:B:293:LYS:HG3	1:B:306:SER:C	2.35	0.47
1:A:106[B]:ARG:HD3	5:A:628:HOH:O	2.16	0.46
1:B:131:ALA:HB1	1:B:136:ILE:HD12	1.96	0.46
1:B:374:LYS:HG2	1:B:374:LYS:O	2.16	0.45
1:B:324:ARG:HA	1:B:345:THR:HB	1.99	0.45
1:A:324:ARG:HA	1:A:345:THR:HB	1.99	0.45
1:B:411:TYR:OH	5:B:601:HOH:O	2.17	0.45
1:A:102:ASN:ND2	1:B:40:GLN:HE21	1.99	0.44
1:A:125:LEU:HD13	1:A:148:ASP:HB3	1.99	0.44
1:A:106[B]:ARG:HH22	1:B:40:GLN:NE2	2.15	0.44
1:B:340:LYS:CE	5:B:812:HOH:O	2.31	0.43
1:B:325:LYS:O	1:B:329:LYS:HE3	2.17	0.43
1:A:66:ASN:ND2	5:A:605:HOH:O	2.36	0.43
1:B:38:ILE:CD1	1:B:404:PHE:CG	3.02	0.42
1:B:33:PRO:CB	1:B:404:PHE:CE1	3.02	0.42
1:B:112:GLY:O	1:B:114:LYS:HD3	2.20	0.41
1:A:291:LEU:HG	1:A:295:SER:CB	2.51	0.41
1:B:196:LEU:HD23	1:B:196:LEU:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:340:LYS:HE2	1:B:342:VAL:CG1	2.42	0.41
1:B:40:GLN:O	1:B:40:GLN:CG	2.69	0.41
1:A:33:PRO:HA	1:A:37:GLN:OE1	2.21	0.40
1:A:26:LEU:HD12	1:A:26:LEU:HA	1.89	0.40
1:B:193:GLN:HE21	1:B:193:GLN:HB3	1.76	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	388/390 (100%)	378 (97%)	10 (3%)	0	100	100
1	B	390/390 (100%)	380 (97%)	10 (3%)	0	100	100
All	All	778/780 (100%)	758 (97%)	20 (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	Percentiles	
1	A	327/327 (100%)	325 (99%)	2 (1%)	86	73
1	B	329/327 (101%)	322 (98%)	7 (2%)	53	22
All	All	656/654 (100%)	647 (99%)	9 (1%)	71	41

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	64	ASN
1	A	403	ARG
1	B	28[A]	ILE
1	B	28[B]	ILE
1	B	29	ASP
1	B	38	ILE
1	B	41	SER
1	B	284	ARG
1	B	403	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	40	GLN
1	B	193	GLN
1	B	409	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](#)

Of 6 ligands modelled in this entry, 2 are monoatomic - leaving 4 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$
3	GOL	B	502	-	5,5,5	0.32	0	5,5,5	0.54	0
2	PLP	B	501	-	15,15,16	0.94	0	20,22,23	1.63	1 (5%)
2	PLP	A	501	-	15,15,16	0.91	0	20,22,23	1.62	1 (5%)
3	GOL	A	502	-	5,5,5	0.33	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.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	B	502	-	-	2/4/4/4	-
2	PLP	B	501	-	-	0/6/6/8	0/1/1/1
2	PLP	A	501	-	-	0/6/6/8	0/1/1/1
3	GOL	A	502	-	-	4/4/4/4	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	501	PLP	C4A-C4-C5	-6.26	114.48	120.94
2	A	501	PLP	C4A-C4-C5	-6.25	114.50	120.94

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	502	GOL	C1-C2-C3-O3
3	B	502	GOL	O2-C2-C3-O3
3	A	502	GOL	C1-C2-C3-O3
3	A	502	GOL	O2-C2-C3-O3
3	A	502	GOL	O1-C1-C2-C3
3	A	502	GOL	O1-C1-C2-O2

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

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	386/390 (98%)	0.68	22 (5%) 23 26	10, 17, 35, 66	0
1	B	388/390 (99%)	0.75	29 (7%) 14 15	11, 16, 35, 64	0
All	All	774/780 (99%)	0.71	51 (6%) 18 19	10, 17, 35, 66	0

All (51) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	409	ASN	8.5
1	B	411	TYR	7.3
1	B	29	ASP	5.7
1	B	30	THR	5.5
1	B	409	ASN	5.3
1	B	36	ALA	5.1
1	B	35	ALA	5.0
1	B	33	PRO	4.7
1	B	38	ILE	4.6
1	B	31	ALA	4.4
1	B	32	LEU	4.3
1	B	66	ASN	4.1
1	B	28[A]	ILE	3.8
1	B	34	ASP	3.7
1	B	410	LEU	3.5
1	A	133	ASP	3.2
1	A	39	GLN	3.2
1	A	196	LEU	3.1
1	B	27	HIS	3.0
1	A	157	GLY	3.0
1	B	408	GLU	2.8
1	A	158	LYS	2.7
1	A	159	THR	2.7
1	B	285	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	194	PRO	2.6
1	B	284	ARG	2.6
1	B	196	LEU	2.6
1	B	26	LEU	2.5
1	B	404	PHE	2.5
1	A	195	SER	2.5
1	A	30	THR	2.5
1	A	344	VAL	2.5
1	A	28[A]	ILE	2.5
1	B	67	THR	2.4
1	B	39	GLN	2.4
1	B	357	ILE	2.4
1	A	273	PRO	2.3
1	A	229	GLN	2.3
1	A	35	ALA	2.3
1	A	26	LEU	2.2
1	A	154	LYS	2.2
1	B	37	GLN	2.2
1	A	38	ILE	2.2
1	B	252	PRO	2.2
1	A	407	LYS	2.2
1	B	291	LEU	2.1
1	A	345	THR	2.1
1	A	132	LEU	2.1
1	B	40	GLN	2.0
1	A	64	ASN	2.0
1	A	207	ASN	2.0

## 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<sup>th</sup> 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(Å <sup>2</sup> )	Q<0.9
3	GOL	B	502	6/6	0.74	0.28	35,36,37,40	0
3	GOL	A	502	6/6	0.75	0.33	30,31,34,38	0
2	PLP	B	501	15/16	0.83	0.15	12,17,22,24	0
2	PLP	A	501	15/16	0.89	0.16	13,17,26,27	0
4	CL	A	503	1/1	0.99	0.33	2,2,2,2	0
4	CL	B	503	1/1	0.99	0.31	2,2,2,2	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.