



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 16, 2024 – 05:50 AM EDT

PDB ID : 2AWD  
Title : Crystal structure of LacC from *Enterococcus faecalis*  
Authors : Gorman, J.; Shapiro, L.; Burley, S.K.; New York SGX Research Center for Structural Genomics (NYSGXRC)  
Deposited on : 2005-08-31  
Resolution : 2.00 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.

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	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
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)	:	2.37.1

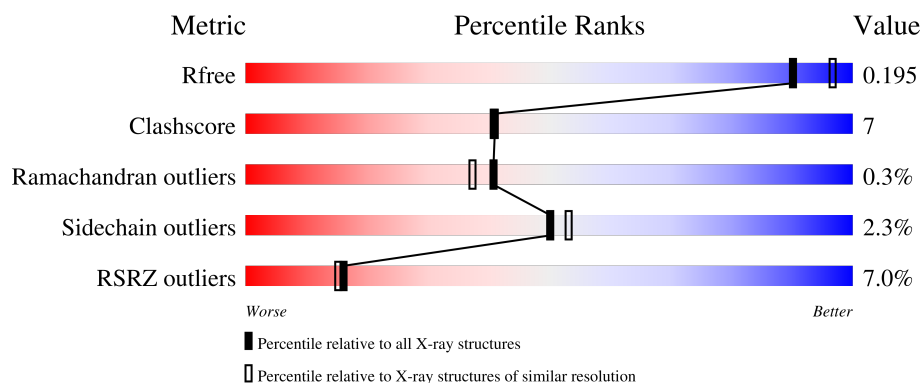
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	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  $\geq 3$ , 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	323	<div> <div>7%</div> <div> <div></div> <div>86%</div> <div>11%</div> <div>.</div> </div> </div>
1	B	323	<div> <div>7%</div> <div> <div></div> <div>81%</div> <div>14%</div> <div>..</div> </div> </div>

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 criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	BR	B	405	-	-	X	-
2	BR	B	409	-	-	X	-

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5147 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 tagatose-6-phosphate kinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	316	Total	C	N	O	Se	0	0	0
			2399	1524	407	462	6			
1	B	313	Total	C	N	O	Se	0	0	0
			2377	1511	403	457	6			

There are 34 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	MSE	-	cloning artifact	UNP Q833W9
A	0	SER	-	cloning artifact	UNP Q833W9
A	1	LEU	-	cloning artifact	UNP Q833W9
A	7	MSE	MET	modified residue	UNP Q833W9
A	213	MSE	MET	modified residue	UNP Q833W9
A	279	MSE	MET	modified residue	UNP Q833W9
A	283	MSE	MET	modified residue	UNP Q833W9
A	290	MSE	MET	modified residue	UNP Q833W9
A	304	MSE	MET	modified residue	UNP Q833W9
A	314	GLU	-	cloning artifact	UNP Q833W9
A	315	GLY	-	cloning artifact	UNP Q833W9
A	316	HIS	-	expression tag	UNP Q833W9
A	317	HIS	-	expression tag	UNP Q833W9
A	318	HIS	-	expression tag	UNP Q833W9
A	319	HIS	-	expression tag	UNP Q833W9
A	320	HIS	-	expression tag	UNP Q833W9
A	321	HIS	-	expression tag	UNP Q833W9
B	-1	MSE	-	cloning artifact	UNP Q833W9
B	0	SER	-	cloning artifact	UNP Q833W9
B	1	LEU	-	cloning artifact	UNP Q833W9
B	7	MSE	MET	modified residue	UNP Q833W9
B	213	MSE	MET	modified residue	UNP Q833W9
B	279	MSE	MET	modified residue	UNP Q833W9
B	283	MSE	MET	modified residue	UNP Q833W9
B	290	MSE	MET	modified residue	UNP Q833W9

*Continued on next page...*

*Continued from previous page...*

Chain	Residue	Modelled	Actual	Comment	Reference
B	304	MSE	MET	modified residue	UNP Q833W9
B	314	GLU	-	cloning artifact	UNP Q833W9
B	315	GLY	-	cloning artifact	UNP Q833W9
B	316	HIS	-	expression tag	UNP Q833W9
B	317	HIS	-	expression tag	UNP Q833W9
B	318	HIS	-	expression tag	UNP Q833W9
B	319	HIS	-	expression tag	UNP Q833W9
B	320	HIS	-	expression tag	UNP Q833W9
B	321	HIS	-	expression tag	UNP Q833W9

- Molecule 2 is BROMIDE ION (three-letter code: BR) (formula: Br).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	7	Total Br 7 7	0	0
2	B	5	Total Br 5 5	0	0

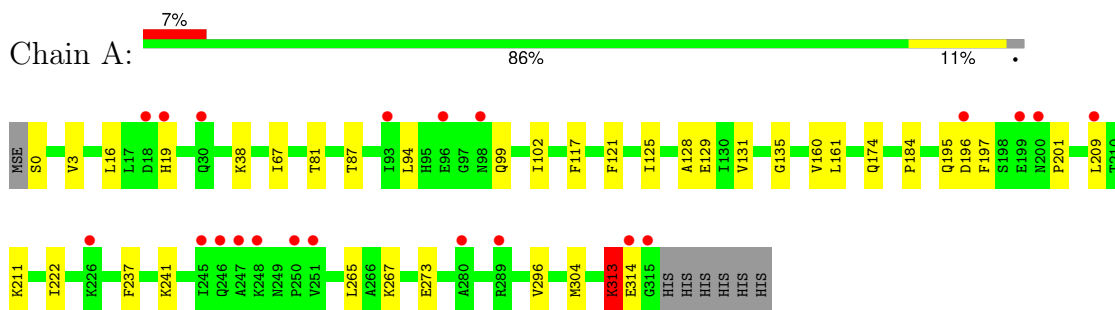
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	185	Total O 185 185	0	0
3	B	174	Total O 174 174	0	0

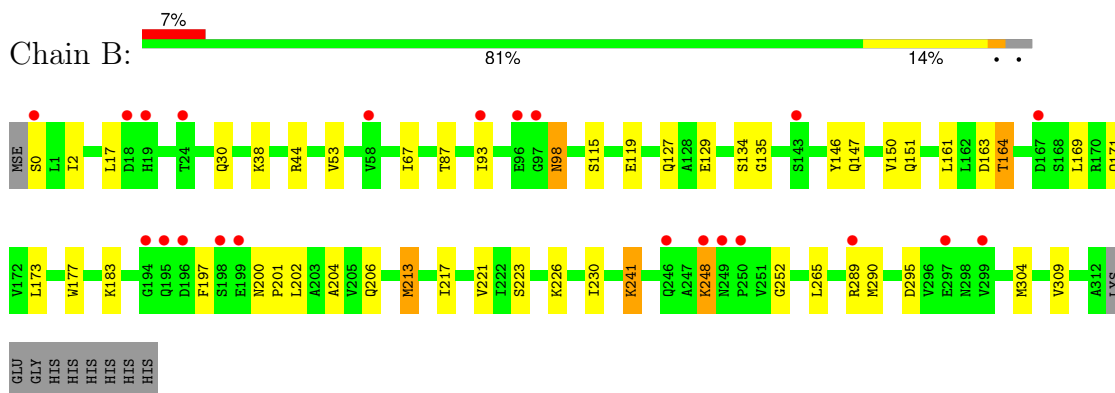
### 3 Residue-property plots [i](#)

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: tagatose-6-phosphate kinase



- Molecule 1: tagatose-6-phosphate kinase



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	65.21Å 62.24Å 91.97Å 90.00° 99.28° 90.00°	Depositor
Resolution (Å)	20.00 – 2.00 19.74 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.4 (20.00-2.00) 99.4 (19.74-2.00)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.70 (at 2.01Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, $R_{free}$	0.193 , 0.246 0.196 , 0.195	Depositor DCC
$R_{free}$ test set	2441 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	32.7	Xtriage
Anisotropy	0.389	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.42 , 58.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	5147	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.71% 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

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BR

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	0.70	0/2435	0.73	0/3293
1	B	0.67	1/2413 (0.0%)	0.68	0/3265
All	All	0.69	1/4848 (0.0%)	0.70	0/6558

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	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	241	LYS	CE-NZ	6.30	1.64	1.49

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	313	LYS	Peptide

### 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	2399	0	2437	27	0
1	B	2377	0	2415	42	0
2	A	7	0	0	1	0
2	B	5	0	0	5	0
3	A	185	0	0	9	0
3	B	174	0	0	12	0
All	All	5147	0	4852	68	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 7.

All (68) 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:44:ARG:HD3	2:B:409:BR:BR	2.25	0.92
1:A:237:PHE:HD1	3:A:417:HOH:O	1.57	0.87
1:A:237:PHE:CD1	3:A:417:HOH:O	2.28	0.82
1:B:164:THR:HG21	2:B:405:BR:BR	2.33	0.82
1:A:241:LYS:HE2	3:A:547:HOH:O	1.85	0.77
1:B:252:GLY:HA3	3:B:412:HOH:O	1.85	0.76
1:B:98:ASN:HD22	1:B:98:ASN:N	1.85	0.74
1:B:171:GLN:NE2	3:B:563:HOH:O	2.25	0.69
1:B:241:LYS:HE3	1:B:309:VAL:HG21	1.76	0.67
1:B:0:SER:HB2	1:B:129:GLU:HG3	1.76	0.66
1:B:151:GLN:HG2	1:B:177:TRP:CD2	2.30	0.66
1:B:164:THR:CG2	2:B:405:BR:BR	2.99	0.66
1:B:304:MSE:HE2	3:B:489:HOH:O	1.97	0.64
1:B:151:GLN:HG2	1:B:177:TRP:CE3	2.35	0.62
1:A:313:LYS:HG2	2:A:411:BR:BR	2.56	0.60
1:B:241:LYS:CE	3:B:512:HOH:O	2.51	0.58
1:B:202:LEU:HD23	1:B:230:ILE:HD11	1.87	0.56
1:B:241:LYS:CE	1:B:309:VAL:HG21	2.36	0.55
1:B:241:LYS:HE2	3:B:483:HOH:O	2.08	0.53
1:B:304:MSE:CE	3:B:489:HOH:O	2.55	0.52
1:B:38:LYS:NZ	3:B:565:HOH:O	2.38	0.52
1:A:304:MSE:HE3	3:A:507:HOH:O	2.09	0.51
1:A:121:PHE:CZ	1:A:125:ILE:HD12	2.46	0.51
1:A:313:LYS:HD3	3:A:421:HOH:O	2.11	0.51
1:B:164:THR:HG23	1:B:169:LEU:HB2	1.93	0.50
1:B:248:LYS:HB3	3:B:496:HOH:O	2.12	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:VAL:CG1	1:A:160:VAL:HG22	2.42	0.49
1:A:67:ILE:HD12	1:A:87:THR:HG21	1.93	0.49
1:A:195:GLN:HE22	1:A:211:LYS:NZ	2.10	0.49
1:A:16:LEU:CD2	1:A:94:LEU:HD12	2.43	0.48
1:B:38:LYS:HD3	1:B:135:GLY:HA2	1.95	0.48
1:A:197:PHE:HB3	1:A:201:PRO:HB3	1.95	0.48
1:A:38:LYS:HD3	1:A:135:GLY:HA2	1.96	0.47
1:B:213:MSE:CG	2:B:406:BR:BR	3.18	0.47
1:B:183:LYS:HA	1:B:221:VAL:O	2.15	0.47
1:A:296:VAL:CG2	3:A:490:HOH:O	2.63	0.46
1:B:147:GLN:HG2	1:B:151:GLN:HE21	1.79	0.46
1:B:173:LEU:HD22	1:B:217:ILE:HD11	1.97	0.46
1:A:94:LEU:HD22	1:A:99:GLN:HG2	1.96	0.46
1:B:202:LEU:CD2	1:B:230:ILE:HD11	2.45	0.46
1:A:184:PRO:HG2	1:A:222:ILE:CD1	2.47	0.45
1:B:241:LYS:HE2	3:B:512:HOH:O	2.14	0.44
1:B:161:LEU:HD11	1:B:265:LEU:HD12	2.00	0.44
1:B:30:GLN:HE21	1:B:30:GLN:HA	1.81	0.44
1:A:241:LYS:CE	3:A:547:HOH:O	2.54	0.44
1:B:197:PHE:CD1	1:B:204:ALA:HB1	2.52	0.44
1:B:98:ASN:N	1:B:98:ASN:ND2	2.57	0.44
1:A:161:LEU:HD11	1:A:265:LEU:HD12	1.98	0.44
1:A:296:VAL:HG21	3:A:490:HOH:O	2.17	0.43
1:B:206:GLN:NE2	3:B:504:HOH:O	2.51	0.43
1:B:241:LYS:CD	3:B:512:HOH:O	2.66	0.43
1:A:267:LYS:NZ	1:A:273:GLU:OE1	2.48	0.43
1:B:200:ASN:N	1:B:201:PRO:CD	2.81	0.43
1:B:146:TYR:O	1:B:150:VAL:HG23	2.19	0.43
1:A:3:VAL:HG23	1:A:128:ALA:HB2	2.01	0.42
1:B:17:LEU:HD22	1:B:93:ILE:CG2	2.49	0.42
1:B:115:SER:O	1:B:119:GLU:HG3	2.20	0.42
1:B:44:ARG:CD	2:B:409:BR:BR	3.11	0.42
1:A:102:ILE:HD11	1:B:93:ILE:HD13	2.02	0.41
1:A:161:LEU:HD11	1:A:265:LEU:CD1	2.50	0.41
1:B:67:ILE:HD12	1:B:87:THR:HG21	2.02	0.41
1:A:81:THR:HG21	1:A:117:PHE:HA	2.03	0.41
1:B:2:ILE:O	1:B:53:VAL:HA	2.21	0.41
1:B:134:SER:HB3	1:B:163:ASP:HB3	2.01	0.41
1:A:209:LEU:HD12	1:A:237:PHE:HE2	1.86	0.41
1:A:174:GLN:OE1	3:A:584:HOH:O	2.22	0.40
1:B:304:MSE:HE3	3:B:482:HOH:O	2.21	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:0:SER:HB2	1:A:129:GLU:CG	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	Percentiles	
1	A	314/323 (97%)	309 (98%)	4 (1%)	1 (0%)	41	37
1	B	311/323 (96%)	303 (97%)	7 (2%)	1 (0%)	41	37
All	All	625/646 (97%)	612 (98%)	11 (2%)	2 (0%)	41	37

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	314	GLU
1	B	248	LYS

### 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	258/258 (100%)	255 (99%)	3 (1%)	71	76
1	B	256/258 (99%)	247 (96%)	9 (4%)	36	35
All	All	514/516 (100%)	502 (98%)	12 (2%)	50	53

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	19	HIS
1	A	196	ASP
1	A	313	LYS
1	B	98	ASN
1	B	127	GLN
1	B	164	THR
1	B	213	MSE
1	B	223	SER
1	B	226	LYS
1	B	289	ARG
1	B	290	MSE
1	B	295	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	98	ASN
1	A	116	ASN
1	A	195	GLN
1	A	234	HIS
1	A	307	GLN
1	B	30	GLN
1	B	98	ASN
1	B	127	GLN
1	B	151	GLN
1	B	174	GLN
1	B	233	HIS
1	B	285	ASN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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 12 ligands modelled in this entry, 12 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

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	310/323 (95%)	0.35	21 (6%) 17 16	20, 32, 57, 64	0
1	B	307/323 (95%)	0.42	22 (7%) 15 14	22, 34, 55, 61	0
All	All	617/646 (95%)	0.39	43 (6%) 16 15	20, 33, 56, 64	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	248	LYS	7.3
1	B	167	ASP	4.5
1	A	315	GLY	4.5
1	B	246	GLN	4.5
1	B	249	ASN	4.4
1	B	198	SER	4.2
1	A	248	LYS	4.2
1	A	246	GLN	4.1
1	B	19	HIS	4.0
1	A	96	GLU	4.0
1	B	250	PRO	3.9
1	B	97	GLY	3.8
1	B	289	ARG	3.8
1	A	245	ILE	3.8
1	A	314	GLU	3.7
1	A	199	GLU	3.7
1	A	19	HIS	3.7
1	A	98	ASN	3.6
1	A	30	GLN	3.5
1	A	196	ASP	3.5
1	B	24	THR	3.3
1	B	96	GLU	3.3
1	B	143	SER	3.3
1	B	0	SER	3.2

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	A	251	VAL	3.1
1	B	196	ASP	3.1
1	A	226	LYS	3.1
1	B	195	GLN	3.1
1	A	93	ILE	3.1
1	B	199	GLU	2.9
1	A	18	ASP	2.8
1	A	289	ARG	2.7
1	A	247	ALA	2.6
1	B	194	GLY	2.4
1	B	58	VAL	2.3
1	B	297	GLU	2.3
1	A	280	ALA	2.2
1	B	93	ILE	2.2
1	B	18	ASP	2.1
1	B	299	VAL	2.1
1	A	250	PRO	2.1
1	A	209	LEU	2.1
1	A	200	ASN	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<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( $\text{\AA}^2$ )	Q<0.9
2	BR	A	411	1/1	0.94	0.06	35,35,35,35	1
2	BR	A	412	1/1	0.97	0.07	46,46,46,46	1
2	BR	A	404	1/1	0.98	0.05	50,50,50,50	0
2	BR	B	406	1/1	0.98	0.07	49,49,49,49	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	BR	B	407	1/1	0.98	0.04	38,38,38,38	1
2	BR	B	409	1/1	0.98	0.10	36,36,36,36	1
2	BR	A	408	1/1	0.99	0.08	35,35,35,35	1
2	BR	A	410	1/1	0.99	0.05	35,35,35,35	1
2	BR	B	405	1/1	0.99	0.05	48,48,48,48	0
2	BR	A	401	1/1	1.00	0.02	31,31,31,31	0
2	BR	B	402	1/1	1.00	0.02	32,32,32,32	0
2	BR	A	403	1/1	1.00	0.06	37,37,37,37	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.