



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2018 – 01:38 am GMT

PDB ID : 3T5T  
Title : Vall from streptomyces hygrosopicus in apo form  
Authors : Zhang, H.; Zheng, L.; Qian, H.  
Deposited on : 2011-07-28  
Resolution : 1.70 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 : 1.7.3 (157068), CSD as539be (2018)  
Xtriage (Phenix) : 1.13  
EDS : trunk31020  
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)  
Refmac : 5.8.0158  
CCP4 : 7.0 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk31020

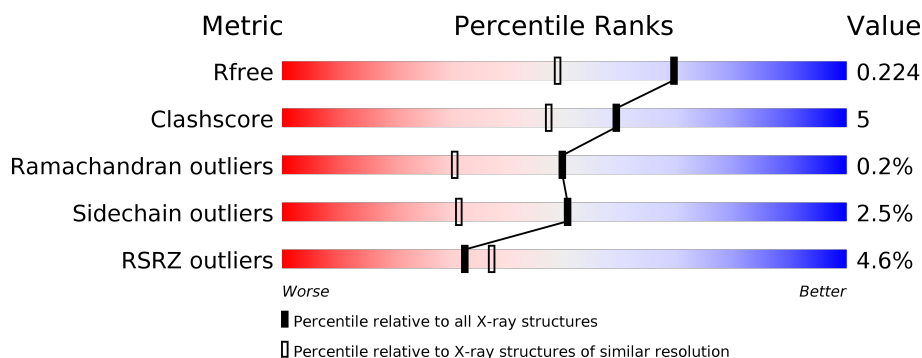
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 1.70 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))
$R_{free}$	111664	3793 (1.70-1.70)
Clashscore	122126	4167 (1.70-1.70)
Ramachandran outliers	120053	4100 (1.70-1.70)
Sidechain outliers	120020	4100 (1.70-1.70)
RSRZ outliers	108989	3718 (1.70-1.70)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. 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	496	<div> <div>5%</div> <div> <div></div> <div>85%</div> <div>9%</div> <div>• 5%</div> </div> </div>
1	B	496	<div> <div>4%</div> <div> <div></div> <div>88%</div> <div>6%</div> <div>• • •</div> </div> </div>

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 8233 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.

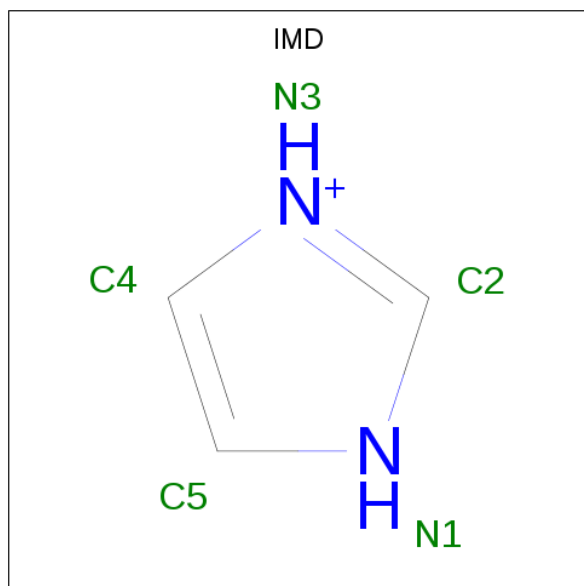
- Molecule 1 is a protein called Putative glycosyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	470	Total	C	N	O	S	0	0	0
			3679	2304	678	685	12			
1	B	475	Total	C	N	O	S	0	0	0
			3708	2320	683	693	12			

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	3	Total	Mg	0	0
			3	3		
2	A	5	Total	Mg	0	0
			5	5		

- Molecule 3 is IMIDAZOLE (three-letter code: IMD) (formula: C<sub>3</sub>H<sub>5</sub>N<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	N	0	0
			5	3	2		
3	B	1	Total	C	N	0	0
			5	3	2		

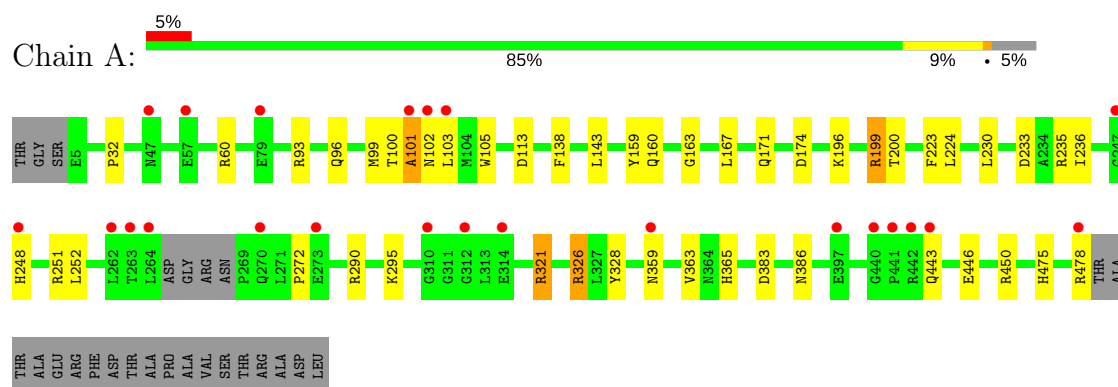
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	377	Total	O	0	0
			377	377		
4	B	451	Total	O	0	0
			451	451		

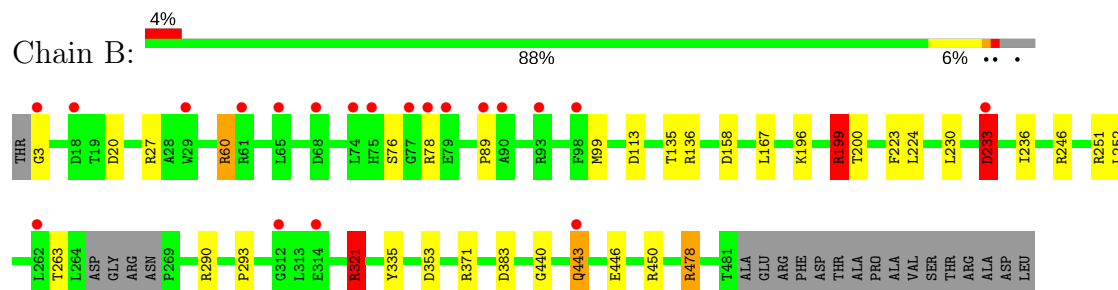
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Putative glycosyltransferase



#### • Molecule 1: Putative glycosyltransferase



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	80.67Å 46.69Å 123.88Å 90.00° 108.08° 90.00°	Depositor
Resolution (Å)	40.39 – 1.70 40.40 – 1.70	Depositor EDS
% Data completeness (in resolution range)	97.6 (40.39-1.70) 97.6 (40.40-1.70)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.49 (at 1.70Å)	Xtriage
Refinement program	CNS, REFMAC 5.5.0109	Depositor
R, $R_{free}$	0.179 , 0.209 0.198 , 0.224	Depositor DCC
$R_{free}$ test set	4761 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	13.1	Xtriage
Anisotropy	0.092	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.36 , 46.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.015 for h,-k,-h-l	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	8233	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	16.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.94% 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: MG, IMD

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	0.44	0/3765	0.67	5/5131 (0.1%)
1	B	0.47	0/3794	0.70	6/5171 (0.1%)
All	All	0.46	0/7559	0.69	11/10302 (0.1%)

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

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed( $^{\circ}$ )	Ideal( $^{\circ}$ )
1	B	199	ARG	NE-CZ-NH1	14.38	127.49	120.30
1	A	199	ARG	NE-CZ-NH1	14.16	127.38	120.30
1	B	233	ASP	CB-CG-OD1	13.76	130.68	118.30
1	A	199	ARG	NE-CZ-NH2	-13.07	113.76	120.30
1	B	199	ARG	NE-CZ-NH2	-12.93	113.83	120.30
1	B	233	ASP	CB-CG-OD2	-7.79	111.29	118.30
1	A	233	ASP	CB-CG-OD1	7.63	125.17	118.30
1	A	199	ARG	CD-NE-CZ	5.97	131.95	123.60
1	B	199	ARG	CD-NE-CZ	5.65	131.51	123.60
1	A	199	ARG	CB-CG-CD	5.61	126.17	111.60
1	B	321	ARG	CG-CD-NE	-5.18	100.92	111.80

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	101	ALA	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	3679	0	3573	40	0
1	B	3708	0	3600	36	0
2	A	5	0	0	0	0
2	B	3	0	0	0	0
3	A	5	0	5	0	0
3	B	5	0	5	0	0
4	A	377	0	0	6	0
4	B	451	0	0	5	0
All	All	8233	0	7183	75	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 (75) 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:478:ARG:HH11	1:B:478:ARG:HG3	1.03	1.12
1:A:99:MET:HE2	1:A:160:GLN:HA	1.16	1.12
1:A:100:THR:O	1:A:102:ASN:O	1.76	1.03
1:B:60:ARG:HG2	1:B:60:ARG:HH11	1.18	1.01
1:A:99:MET:CE	1:A:160:GLN:HA	1.91	0.98
1:B:478:ARG:NH1	1:B:478:ARG:HG3	1.80	0.89
1:B:321:ARG:HG2	4:B:614:HOH:O	1.80	0.82
1:A:321:ARG:HG2	4:A:684:HOH:O	1.82	0.79
1:B:223:PHE:HD2	1:B:252:LEU:HD21	1.48	0.79
1:B:440:GLY:HA3	1:B:443:GLN:HE22	1.51	0.74
1:A:99:MET:HE3	1:A:160:GLN:HG3	1.68	0.74
1:B:440:GLY:H	1:B:443:GLN:NE2	1.86	0.73
1:A:443:GLN:CD	1:A:443:GLN:H	1.91	0.71
1:B:223:PHE:CD2	1:B:252:LEU:HD21	2.24	0.71
1:A:199:ARG:HG3	1:A:200:THR:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:60:ARG:NH1	1:B:89:PRO:HG3	2.07	0.69
1:B:440:GLY:CA	1:B:443:GLN:HE22	2.06	0.68
1:B:60:ARG:CG	1:B:60:ARG:HH11	1.97	0.67
1:B:440:GLY:N	1:B:443:GLN:NE2	2.42	0.67
1:A:443:GLN:OE1	1:A:443:GLN:N	2.24	0.64
1:A:248:HIS:ND1	1:A:478:ARG:NH2	2.47	0.63
1:A:223:PHE:HD2	1:A:252:LEU:HD21	1.65	0.62
1:B:478:ARG:CG	1:B:478:ARG:NH1	2.57	0.62
1:B:224:LEU:HG	1:B:252:LEU:HD22	1.80	0.62
1:B:60:ARG:HG2	1:B:60:ARG:NH1	2.00	0.60
1:A:99:MET:HE2	1:A:160:GLN:CA	2.10	0.59
1:A:32:PRO:HB2	1:A:363:VAL:HG21	1.85	0.58
1:B:446:GLU:HG3	1:B:450:ARG:NH1	2.19	0.58
1:A:290:ARG:NH1	4:A:731:HOH:O	2.37	0.58
1:B:440:GLY:CA	1:B:443:GLN:NE2	2.67	0.57
1:A:199:ARG:HD3	1:A:230:LEU:HD22	1.87	0.57
1:A:326:ARG:HD2	1:A:328:TYR:OH	2.05	0.56
1:B:443:GLN:CD	1:B:443:GLN:H	2.09	0.55
1:A:96:GLN:O	1:A:100:THR:HG23	2.06	0.55
1:B:199:ARG:HG3	1:B:200:THR:N	2.20	0.55
1:B:76:SER:HB3	1:B:263:THR:HG22	1.88	0.55
1:B:199:ARG:HD2	4:B:544:HOH:O	2.06	0.54
1:B:20:ASP:HB2	1:B:27:ARG:HB2	1.89	0.53
1:A:446:GLU:HG3	1:A:450:ARG:NH1	2.24	0.52
1:B:443:GLN:OE1	1:B:443:GLN:N	2.32	0.52
1:A:163:GLY:O	1:A:167:LEU:HD13	2.12	0.49
1:A:99:MET:CE	1:A:160:GLN:CA	2.79	0.49
1:A:196:LYS:HA	1:A:199:ARG:HG2	1.94	0.48
1:B:60:ARG:CG	1:B:60:ARG:NH1	2.66	0.48
1:A:199:ARG:HG3	1:A:200:THR:H	1.75	0.48
1:B:3:GLY:N	4:B:705:HOH:O	2.47	0.47
1:A:167:LEU:HD12	1:A:167:LEU:N	2.30	0.47
1:A:224:LEU:HG	1:A:252:LEU:HD22	1.97	0.47
1:A:99:MET:HE3	1:A:159:TYR:CD2	2.50	0.47
1:B:440:GLY:H	1:B:443:GLN:HE21	1.60	0.47
1:A:113:ASP:HB3	1:B:113:ASP:HB3	1.97	0.46
1:B:371:ARG:NH2	4:B:834:HOH:O	2.49	0.45
1:B:199:ARG:HD3	1:B:230:LEU:HD22	1.98	0.45
1:A:99:MET:HE3	1:A:159:TYR:CE2	2.52	0.45
1:A:224:LEU:CD2	1:A:252:LEU:HD22	2.47	0.44
1:A:32:PRO:HB2	1:A:363:VAL:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:196:LYS:HA	1:B:199:ARG:HG2	1.99	0.44
1:B:136:ARG:HA	1:B:136:ARG:HD3	1.86	0.44
1:B:60:ARG:HH12	1:B:89:PRO:HG3	1.79	0.44
1:A:93:ARG:HG3	4:A:785:HOH:O	2.18	0.43
1:A:101:ALA:HA	1:A:105:TRP:HB3	2.00	0.43
1:A:174:ASP:O	1:A:475:HIS:HE1	2.01	0.43
1:A:223:PHE:CD2	1:A:252:LEU:HD21	2.50	0.43
1:A:99:MET:CE	1:A:159:TYR:CD2	3.02	0.43
1:B:290:ARG:NH1	4:B:624:HOH:O	2.48	0.42
1:A:143:LEU:HD13	1:A:171:GLN:HG3	2.01	0.42
1:A:295:LYS:HA	1:A:295:LYS:HD3	1.89	0.42
1:B:135:THR:HG22	1:B:167:LEU:HD22	2.01	0.42
1:A:443:GLN:CD	1:A:443:GLN:N	2.69	0.42
1:A:235:ARG:NH1	4:A:711:HOH:O	2.52	0.41
1:A:103:LEU:HD21	4:A:547:HOH:O	2.21	0.41
1:B:233:ASP:OD2	1:B:246:ARG:NE	2.50	0.41
1:A:272:PRO:HG3	1:A:365:HIS:HB3	2.03	0.40
1:B:293:PRO:HA	1:B:335:TYR:CD1	2.56	0.40
1:A:359:ASN:ND2	4:A:660:HOH:O	2.55	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	466/496 (94%)	455 (98%)	10 (2%)	1 (0%)	49	30
1	B	471/496 (95%)	461 (98%)	9 (2%)	1 (0%)	49	30
All	All	937/992 (94%)	916 (98%)	19 (2%)	2 (0%)	49	30

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	386	ASN
1	B	158	ASP

### 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	375/394 (95%)	368 (98%)	7 (2%)	60	43
1	B	378/394 (96%)	366 (97%)	12 (3%)	42	21
All	All	753/788 (96%)	734 (98%)	19 (2%)	50	31

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	60	ARG
1	A	138	PHE
1	A	236	ILE
1	A	251	ARG
1	A	321	ARG
1	A	326	ARG
1	A	383	ASP
1	B	60	ARG
1	B	78	ARG
1	B	99	MET
1	B	199	ARG
1	B	233	ASP
1	B	236	ILE
1	B	251	ARG
1	B	321	ARG
1	B	353	ASP
1	B	383	ASP
1	B	443	GLN
1	B	478	ARG

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

Mol	Chain	Res	Type
1	B	443	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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 8 are monoatomic - leaving 2 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	IMD	A	502	-	3,5,5	0.44	0	4,5,5	0.57	0
3	IMD	B	500	-	3,5,5	0.41	0	4,5,5	0.62	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	IMD	A	502	-	-	0/0/0/0	0/1/1/1
3	IMD	B	500	-	-	0/0/0/0	0/1/1/1

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	470/496 (94%)	0.04	23 (4%) 29 33	5, 16, 33, 42	0
1	B	475/496 (95%)	-0.02	20 (4%) 36 41	5, 13, 30, 38	0
All	All	945/992 (95%)	0.01	43 (4%) 32 37	5, 14, 32, 42	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	77	GLY	7.4
1	B	74	LEU	5.1
1	A	442	ARG	4.8
1	B	90	ALA	4.8
1	B	75	HIS	4.7
1	A	443	GLN	4.6
1	B	93	ARG	4.3
1	A	103	LEU	4.2
1	A	263	THR	3.9
1	A	262	LEU	3.9
1	A	248	HIS	3.8
1	B	29	TRP	3.7
1	A	478	ARG	3.7
1	A	102	ASN	3.6
1	A	441	PRO	3.4
1	B	314	GLU	3.3
1	A	273	GLU	3.3
1	A	57	GLU	3.2
1	B	18	ASP	3.2
1	B	98	PHE	3.0
1	B	233	ASP	2.8
1	B	262	LEU	2.8
1	B	68	ASP	2.7
1	B	3	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	79	GLU	2.7
1	B	78	ARG	2.6
1	B	89	PRO	2.6
1	A	312	GLY	2.6
1	B	79	GLU	2.6
1	A	310	GLY	2.4
1	B	312	GLY	2.4
1	A	101	ALA	2.4
1	A	397	GLU	2.4
1	B	65	LEU	2.4
1	A	440	GLY	2.3
1	B	61	ARG	2.3
1	A	270	GLN	2.3
1	B	443	GLN	2.2
1	A	47	ASN	2.2
1	A	359	ASN	2.1
1	A	314	GLU	2.0
1	A	264	LEU	2.0
1	A	247	GLY	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 carbohydrates 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
3	IMD	B	500	5/5	0.86	0.13	19,19,20,20	0
2	MG	A	1	1/1	0.87	0.15	42,42,42,42	0
3	IMD	A	502	5/5	0.89	0.12	20,21,21,22	0
2	MG	A	498	1/1	0.90	0.43	30,30,30,30	0

*Continued on next page...*

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	MG	B	498	1/1	0.92	0.20	30,30,30,30	0
2	MG	B	1	1/1	0.96	0.10	20,20,20,20	0
2	MG	A	499	1/1	0.96	0.35	30,30,30,30	0
2	MG	A	500	1/1	0.98	0.36	30,30,30,30	0
2	MG	B	499	1/1	0.99	0.14	30,30,30,30	0
2	MG	A	501	1/1	0.99	0.11	30,30,30,30	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.