



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:46 PM UTC

PDB ID : 4CSD / pdb_00004csd
Title : Structure of Monomeric Ralstonia solanacearum lectin
Authors : Arnaud, J.; Trundle, K.; Claudinon, J.; Audfray, A.; Varrot, A.; Romer, W.;
Imberty, A.
Deposited on : 2014-03-06
Resolution : 1.35 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtrriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

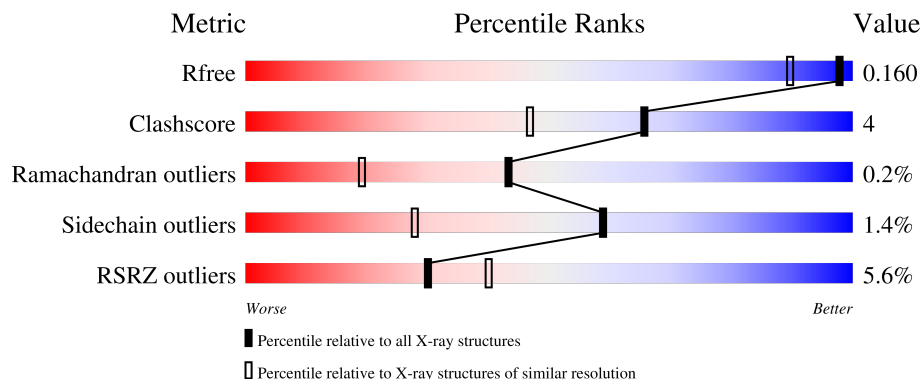
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

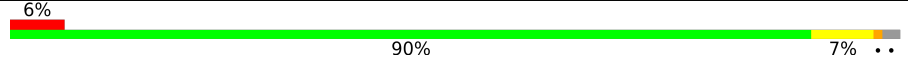
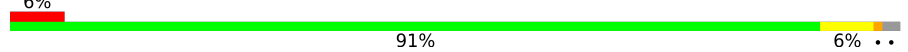
The reported resolution of this entry is 1.35 Å.

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}	180053	1216 (1.36-1.36)
Clashscore	190562	1232 (1.36-1.36)
Ramachandran outliers	187476	1220 (1.36-1.36)
Sidechain outliers	187428	1220 (1.36-1.36)
RSRZ outliers	180081	1214 (1.36-1.36)

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 $\leq 5\%$. 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	272	 6% 90% 7% ..
1	B	272	 6% 91% 6% ..

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4891 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.

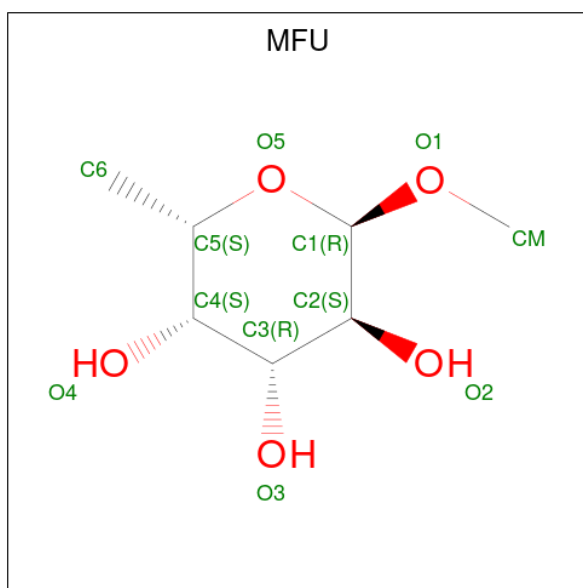
- Molecule 1 is a protein called FUCOSE-BINDING LECTIN PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	266	Total	C	N	O	S	0	0	0
			2035	1279	347	402	7			
1	B	267	Total	C	N	O	S	0	1	0
			2047	1286	350	405	6			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	67	THR	SER	conflict	UNP Q8XXK6
A	89	SER	-	linker	UNP Q8XXK6
A	90	THR	-	linker	UNP Q8XXK6
A	91	VAL	-	linker	UNP Q8XXK6
A	92	PRO	-	linker	UNP Q8XXK6
A	93	GLY	-	linker	UNP Q8XXK6
A	94	ASP	-	linker	UNP Q8XXK6
A	180	SER	-	linker	UNP Q8XXK6
A	181	THR	-	linker	UNP Q8XXK6
A	182	VAL	-	linker	UNP Q8XXK6
A	183	PRO	-	linker	UNP Q8XXK6
A	184	GLY	-	linker	UNP Q8XXK6
B	67	THR	SER	conflict	UNP Q8XXK6
B	89	SER	-	linker	UNP Q8XXK6
B	90	THR	-	linker	UNP Q8XXK6
B	91	VAL	-	linker	UNP Q8XXK6
B	92	PRO	-	linker	UNP Q8XXK6
B	93	GLY	-	linker	UNP Q8XXK6
B	94	ASP	-	linker	UNP Q8XXK6
B	180	SER	-	linker	UNP Q8XXK6
B	181	THR	-	linker	UNP Q8XXK6
B	182	VAL	-	linker	UNP Q8XXK6
B	183	PRO	-	linker	UNP Q8XXK6
B	184	GLY	-	linker	UNP Q8XXK6

- Molecule 2 is methyl alpha-L-fucopyranoside (CCD ID: MFU) (formula: $C_7H_{14}O_5$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 12 7 5	0	0
2	A	1	Total C O 12 7 5	0	0
2	A	1	Total C O 12 7 5	0	0
2	A	1	Total C O 12 7 5	0	0
2	A	1	Total C O 12 7 5	0	0
2	A	1	Total C O 12 7 5	0	0
2	B	1	Total C O 12 7 5	0	0
2	B	1	Total C O 12 7 5	0	0
2	B	1	Total C O 12 7 5	0	0
2	B	1	Total C O 12 7 5	0	0
2	B	1	Total C O 12 7 5	0	0
2	B	1	Total C O 12 7 5	0	0

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 12 6 6	0	1

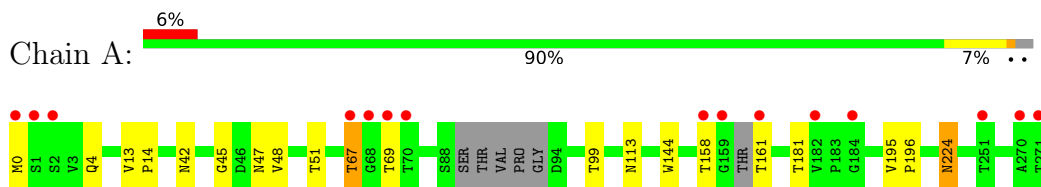
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	339	Total O 339 339	0	0
4	B	314	Total O 314 314	0	0

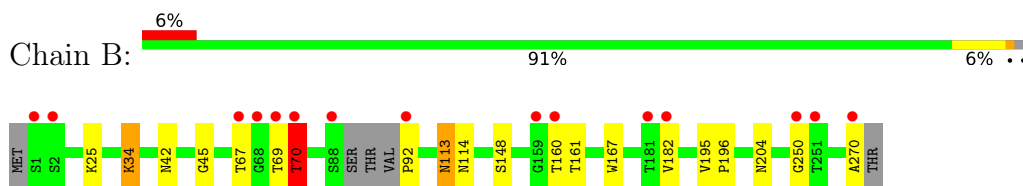
3 Residue-property plots [i](#)

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: FUCOSE-BINDING LECTIN PROTEIN



- Molecule 1: FUCOSE-BINDING LECTIN PROTEIN



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	36.42Å 75.91Å 85.78Å 90.00° 102.23° 90.00°	Depositor
Resolution (Å)	41.92 – 1.35 41.92 – 1.35	Depositor EDS
% Data completeness (in resolution range)	99.1 (41.92-1.35) 99.1 (41.92-1.35)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.45 (at 1.35Å)	Xtrriage
Refinement program	REFMAC 5.7.0032	Depositor
R, R_{free}	0.116 , 0.149 0.129 , 0.160	Depositor DCC
R_{free} test set	4951 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	10.4	Xtrriage
Anisotropy	0.310	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 42.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.023 for h,-k,-h-l	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	4891	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.65% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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, MFU

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	0.95	2/2099 (0.1%)	0.87	0/2883
1	B	0.95	2/2113 (0.1%)	0.86	1/2904 (0.0%)
All	All	0.95	4/4212 (0.1%)	0.86	1/5787 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	67	THR	CA-C	8.27	1.62	1.52
1	B	250	GLY	C-N	-6.13	1.25	1.33
1	A	195	VAL	C-O	-5.73	1.19	1.24
1	B	70	THR	N-CA	5.14	1.52	1.46

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	250	GLY	O-C-N	-6.99	113.85	122.58

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	A	2035	0	1873	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	2047	0	1883	16	0
2	A	72	0	84	0	0
2	B	72	0	84	0	0
3	A	12	0	16	3	0
4	A	339	0	0	2	0
4	B	314	0	0	6	0
All	All	4891	0	3940	31	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 (31) 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:158:THR:HG23	4:A:2217:HOH:O	1.69	0.93
1:A:4:GLN:HE22	1:A:48:VAL:H	1.24	0.85
1:A:99:THR:OG1	3:A:307[B]:GOL:H32	1.86	0.76
1:B:160:THR:HG23	1:B:161:THR:HG23	1.70	0.72
1:A:161:THR:N	1:A:181:THR:HG1	1.88	0.72
1:A:4:GLN:HE22	1:A:48:VAL:N	1.89	0.71
1:A:51:THR:OG1	3:A:307[B]:GOL:H11	1.92	0.70
1:B:113:ASN:HD22	1:B:114:ASN:H	1.39	0.70
1:A:51:THR:OG1	3:A:307[A]:GOL:H2	1.91	0.69
1:B:270:ALA:HB3	4:B:2303:HOH:O	1.97	0.63
1:A:4:GLN:NE2	1:A:48:VAL:H	1.96	0.61
1:B:167:TRP:CH2	4:B:2215:HOH:O	2.55	0.59
1:A:224:ASN:ND2	4:A:2273:HOH:O	2.35	0.59
1:B:69:THR:O	1:B:70:THR:HB	2.03	0.59
1:B:45:GLY:HA2	1:B:67:THR:HG22	1.86	0.57
1:B:25:LYS:HE3	4:B:2054:HOH:O	2.04	0.56
1:B:167:TRP:CZ3	4:B:2215:HOH:O	2.54	0.55
1:A:69:THR:HG22	1:A:113:ASN:OD1	2.09	0.53
1:B:42:ASN:OD1	4:B:2054:HOH:O	2.20	0.50
1:B:182:VAL:HG22	1:B:204:ASN:HD22	1.77	0.49
1:A:161:THR:N	1:A:181:THR:OG1	2.49	0.46
1:B:69:THR:O	1:B:70:THR:CB	2.63	0.46
1:B:160:THR:CG2	1:B:161:THR:HG23	2.42	0.46
1:B:113:ASN:HD22	1:B:114:ASN:N	2.10	0.45
1:B:92:PRO:N	4:B:2141:HOH:O	2.50	0.44
1:A:45:GLY:HA2	1:A:67:THR:HG22	2.00	0.43
1:B:195:VAL:N	1:B:196:PRO:HA	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:GLN:NE2	1:A:47:ASN:HA	2.32	0.43
1:B:34:LYS:HB2	1:B:34:LYS:HE3	1.76	0.42
1:A:13:VAL:N	1:A:14:PRO:HA	2.36	0.41
1:A:144:TRP:CZ2	1:A:196:PRO:HG3	2.56	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	260/272 (96%)	252 (97%)	8 (3%)	0	100	100
1	B	264/272 (97%)	255 (97%)	8 (3%)	1 (0%)	30	11
All	All	524/544 (96%)	507 (97%)	16 (3%)	1 (0%)	43	19

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	70	THR

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	210/215 (98%)	207 (99%)	3 (1%)	59	28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	211/215 (98%)	208 (99%)	3 (1%)	59	28
All	All	421/430 (98%)	415 (99%)	6 (1%)	59	28

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	0	MET
1	A	42	ASN
1	A	224	ASN
1	B	34	LYS
1	B	113	ASN
1	B	148	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	4	GLN
1	A	22	ASN
1	A	23	ASN
1	A	42	ASN
1	A	114	ASN
1	A	205	ASN
1	A	224	ASN
1	B	113	ASN
1	B	114	ASN
1	B	204	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 oligosaccharides in this entry.

5.6 Ligand geometry

14 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	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	MFU	B	305	-	12,12,12	0.76	0	17,17,17	1.10	1 (5%)
2	MFU	A	306	-	12,12,12	0.80	0	17,17,17	1.15	1 (5%)
2	MFU	B	301	-	12,12,12	0.91	1 (8%)	17,17,17	1.35	2 (11%)
2	MFU	A	301	-	12,12,12	0.76	0	17,17,17	1.01	1 (5%)
2	MFU	A	304	-	12,12,12	0.62	0	17,17,17	0.70	0
2	MFU	B	303	-	12,12,12	0.98	1 (8%)	17,17,17	1.84	2 (11%)
2	MFU	B	304	-	12,12,12	0.93	0	17,17,17	1.25	2 (11%)
2	MFU	B	302	-	12,12,12	0.59	0	17,17,17	0.75	0
3	GOL	A	307[A]	-	5,5,5	1.00	0	5,5,5	1.29	0
2	MFU	B	306	-	12,12,12	0.84	0	17,17,17	0.99	0
2	MFU	A	305	-	12,12,12	0.78	0	17,17,17	0.95	1 (5%)
2	MFU	A	302	-	12,12,12	0.85	0	17,17,17	1.02	0
2	MFU	A	303	-	12,12,12	0.79	0	17,17,17	1.08	0
3	GOL	A	307[B]	-	5,5,5	0.57	0	5,5,5	0.76	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
2	MFU	B	305	-	-	0/2/22/22	0/1/1/1
2	MFU	A	306	-	-	0/2/22/22	0/1/1/1
2	MFU	B	301	-	-	0/2/22/22	0/1/1/1
2	MFU	A	301	-	-	0/2/22/22	0/1/1/1
2	MFU	A	304	-	-	0/2/22/22	0/1/1/1
2	MFU	B	303	-	-	0/2/22/22	0/1/1/1
2	MFU	B	304	-	-	0/2/22/22	0/1/1/1
2	MFU	B	302	-	-	0/2/22/22	0/1/1/1
3	GOL	A	307[A]	-	-	4/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MFU	B	306	-	-	0/2/22/22	0/1/1/1
2	MFU	A	305	-	-	0/2/22/22	0/1/1/1
2	MFU	A	302	-	-	0/2/22/22	0/1/1/1
2	MFU	A	303	-	-	0/2/22/22	0/1/1/1
3	GOL	A	307[B]	-	-	4/4/4/4	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	303	MFU	O1-C1	3.03	1.45	1.40
2	B	301	MFU	O1-C1	2.23	1.43	1.40

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	303	MFU	O1-C1-C2	-6.11	101.09	108.14
2	B	301	MFU	O1-C1-C2	-3.72	103.84	108.14
2	B	304	MFU	O1-C1-C2	3.59	112.29	108.14
2	A	306	MFU	O1-C1-C2	3.26	111.91	108.14
2	B	305	MFU	O1-C1-C2	-2.74	104.98	108.14
2	A	301	MFU	C4-C3-C2	-2.56	106.34	110.83
2	A	305	MFU	O5-C1-C2	2.45	115.41	110.37
2	B	303	MFU	CM-O1-C1	-2.39	109.63	113.26
2	B	304	MFU	CM-O1-C1	2.26	116.70	113.26
2	B	301	MFU	O4-C4-C5	-2.14	105.01	109.74

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	307[A]	GOL	C1-C2-C3-O3
3	A	307[B]	GOL	O1-C1-C2-O2
3	A	307[B]	GOL	O1-C1-C2-C3
3	A	307[B]	GOL	C1-C2-C3-O3
3	A	307[B]	GOL	O2-C2-C3-O3
3	A	307[A]	GOL	O2-C2-C3-O3
3	A	307[A]	GOL	O1-C1-C2-C3
3	A	307[A]	GOL	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	307[A]	GOL	1	0
3	A	307[B]	GOL	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

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, 95th 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	A	266/272 (97%)	-0.09	15 (5%) 30 40	6, 11, 27, 39	2 (0%)
1	B	267/272 (98%)	-0.02	15 (5%) 30 40	6, 11, 29, 36	4 (1%)
All	All	533/544 (97%)	-0.06	30 (5%) 30 40	6, 11, 29, 39	6 (1%)

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	69	THR	6.8
1	A	0	MET	6.4
1	B	181	THR	5.1
1	A	68	GLY	4.8
1	B	251	THR	4.5
1	B	160	THR	4.2
1	A	67	THR	3.8
1	B	182	VAL	3.7
1	A	271	THR	3.6
1	B	70	THR	3.5
1	A	1	SER	3.5
1	A	182	VAL	3.4
1	A	184	GLY	3.3
1	B	1	SER	3.3
1	B	92	PRO	3.1
1	A	69	THR	3.0
1	B	250	GLY	3.0
1	B	159	GLY	2.8
1	B	88	SER	2.7
1	A	159	GLY	2.7
1	A	70	THR	2.6
1	A	158	THR	2.6
1	A	2	SER	2.6
1	A	270	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	68	GLY	2.4
1	B	270	ALA	2.4
1	B	2	SER	2.2
1	A	161	THR	2.2
1	A	251	THR	2.2
1	B	67	THR	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 oligosaccharides 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, 95th 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 ²)	Q<0.9
3	GOL	A	307[A]	6/6	0.84	0.13	15,19,21,24	6
3	GOL	A	307[B]	6/6	0.84	0.13	17,17,19,22	6
2	MFU	A	306	12/12	0.98	0.04	7,8,11,12	0
2	MFU	B	301	12/12	0.98	0.04	7,8,10,14	0
2	MFU	B	302	12/12	0.98	0.04	7,8,11,13	0
2	MFU	B	303	12/12	0.98	0.04	10,11,15,16	0
2	MFU	B	304	12/12	0.98	0.04	7,8,11,12	0
2	MFU	B	305	12/12	0.98	0.04	7,8,10,11	0
2	MFU	A	302	12/12	0.98	0.03	9,11,13,14	0
2	MFU	A	304	12/12	0.98	0.04	8,9,11,13	0
2	MFU	A	305	12/12	0.99	0.03	7,8,10,11	0
2	MFU	B	306	12/12	0.99	0.03	7,9,11,12	0
2	MFU	A	303	12/12	0.99	0.03	9,10,12,14	0
2	MFU	A	301	12/12	0.99	0.04	7,8,10,12	0

6.5 Other polymers [i](#)

There are no such residues in this entry.