



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 2, 2024 – 02:45 pm GMT

PDB ID : 5C9P
Title : Crystal structure of recombinant PLL lectin complexed with L-fucose from *Photorhabdus luminescens* at 1.75 Å resolution
Authors : Kumar, A.; Sykorova, P.; Demo, G.; Dobes, P.; Hyrsl, P.; Wimmerova, M.
Deposited on : 2015-06-28
Resolution : 1.75 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

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 : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

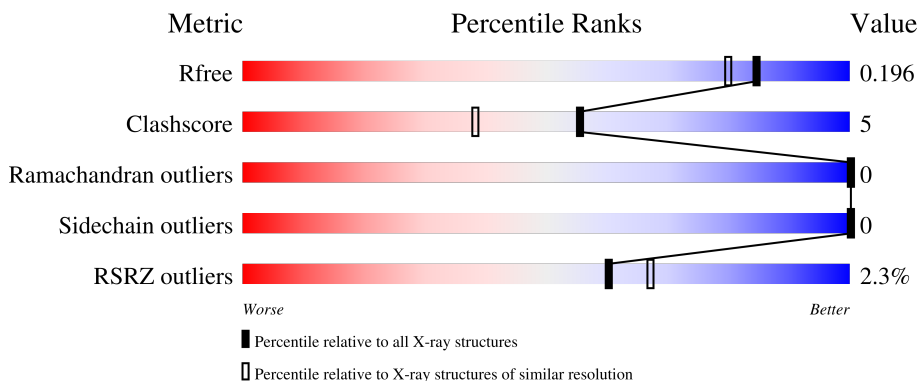
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.75 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	2340 (1.76-1.76)
Clashscore	141614	2466 (1.76-1.76)
Ramachandran outliers	138981	2437 (1.76-1.76)
Sidechain outliers	138945	2437 (1.76-1.76)
RSRZ outliers	127900	2298 (1.76-1.76)

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	381	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3262 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 PLL lectin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	354	2785	1758	493	530	4	0	9	0

There are 23 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	10	HIS	TYR	conflict	UNP Q7N8J0
A	16	GLU	ALA	conflict	UNP Q7N8J0
A	93	GLY	SER	conflict	UNP Q7N8J0
A	139	VAL	ALA	conflict	UNP Q7N8J0
A	142	SER	THR	conflict	UNP Q7N8J0
A	177	LEU	ILE	conflict	UNP Q7N8J0
A	225	ASN	GLY	conflict	UNP Q7N8J0
A	240	SER	ASN	conflict	UNP Q7N8J0
A	278	GLN	ARG	conflict	UNP Q7N8J0
A	298	HIS	GLN	conflict	UNP Q7N8J0
A	369	LEU	-	expression tag	UNP Q7N8J0
A	370	GLU	-	expression tag	UNP Q7N8J0
A	371	HIS	-	expression tag	UNP Q7N8J0
A	372	HIS	-	expression tag	UNP Q7N8J0
A	373	HIS	-	expression tag	UNP Q7N8J0
A	374	HIS	-	expression tag	UNP Q7N8J0
A	375	HIS	-	expression tag	UNP Q7N8J0
A	376	HIS	-	expression tag	UNP Q7N8J0
A	377	TRP	-	expression tag	UNP Q7N8J0
A	378	ARG	-	expression tag	UNP Q7N8J0
A	379	SER	-	expression tag	UNP Q7N8J0
A	380	GLY	-	expression tag	UNP Q7N8J0
A	381	CYS	-	expression tag	UNP Q7N8J0

- Molecule 2 is alpha-L-fucopyranose (three-letter code: FUC) (formula: C₆H₁₂O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			11	6	5		
2	A	1	Total	C	O	0	0
			11	6	5		
2	A	1	Total	C	O	0	0
			11	6	5		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

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

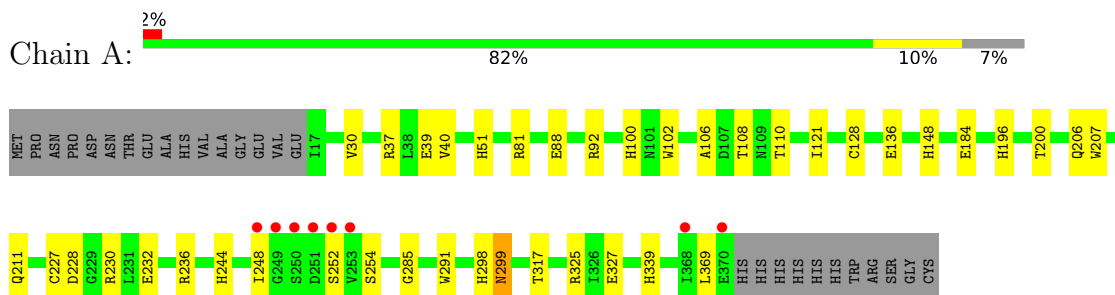
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	384	Total O 384 384	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: PLL lectin



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	72.78Å 87.72Å 158.19Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.10 – 1.75 38.36 – 1.75	Depositor EDS
% Data completeness (in resolution range)	100.0 (39.10-1.75) 100.0 (38.36-1.75)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.75 (at 1.75Å)	Xtrriage
Refinement program	REFMAC 5.8.0103	Depositor
R, R_{free}	0.142 , 0.181 0.156 , 0.196	Depositor DCC
R_{free} test set	2608 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	16.5	Xtrriage
Anisotropy	0.044	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 43.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3262	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.14% 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: FUC, 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	1.15	3/2894 (0.1%)	1.06	9/3975 (0.2%)

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 (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	128	CYS	CB-SG	-11.80	1.62	1.82
1	A	128	CYS	CA-CB	7.21	1.69	1.53
1	A	207	TRP	CE2-CZ2	-5.31	1.30	1.39

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	228	ASP	CB-CG-OD2	-10.82	108.56	118.30
1	A	230	ARG	NE-CZ-NH1	8.62	124.61	120.30
1	A	81	ARG	NE-CZ-NH1	8.42	124.51	120.30
1	A	230	ARG	NE-CZ-NH2	-8.18	116.21	120.30
1	A	37	ARG	NE-CZ-NH1	7.43	124.02	120.30
1	A	325	ARG	NE-CZ-NH1	6.70	123.65	120.30
1	A	236	ARG	NE-CZ-NH2	-6.21	117.20	120.30
1	A	228	ASP	CB-CG-OD1	5.85	123.57	118.30
1	A	369	LEU	CB-CG-CD1	-5.30	101.98	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	299	ASN	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	2785	0	2653	29	0
2	A	33	0	36	0	0
3	A	60	0	80	1	0
4	A	384	0	0	7	0
All	All	3262	0	2769	29	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 (29) 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:200:THR:OG1	1:A:206[B]:GLN:HG2	1.81	0.80
1:A:88:GLU:OE2	1:A:100:HIS:HD2	1.73	0.72
1:A:184:GLU:OE2	1:A:196:HIS:HD2	1.73	0.70
1:A:136:GLU:OE2	1:A:148:HIS:HD2	1.76	0.68
1:A:327:GLU:OE2	1:A:339:HIS:HD2	1.79	0.65
1:A:39:GLU:OE2	1:A:51:HIS:HD2	1.81	0.64
1:A:100:HIS:HE1	4:A:720:HOH:O	1.81	0.62
1:A:232:GLU:OE2	1:A:244:HIS:HD2	1.83	0.61
1:A:148:HIS:HE1	4:A:658:HOH:O	1.83	0.60
1:A:108[B]:THR:HG22	1:A:110[B]:THR:HG23	1.84	0.59
1:A:196:HIS:HE1	4:A:668:HOH:O	1.87	0.58
1:A:339:HIS:HE1	4:A:813:HOH:O	1.89	0.55
1:A:51:HIS:HE1	4:A:567:HOH:O	1.89	0.54
1:A:106:ALA:O	1:A:108[A]:THR:HG23	2.08	0.53
1:A:211:GLN:HG2	4:A:797:HOH:O	2.09	0.52
1:A:248:ILE:HD11	1:A:252:SER:OG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:136:GLU:OE2	1:A:148:HIS:CD2	2.63	0.49
1:A:227[A]:CYS:HB2	4:A:702:HOH:O	2.12	0.48
1:A:248:ILE:HD11	1:A:252:SER:CB	2.44	0.47
1:A:30[B]:VAL:HG22	1:A:40:VAL:HG12	1.97	0.47
1:A:184:GLU:OE2	1:A:196:HIS:CD2	2.62	0.46
1:A:102:TRP:CE2	3:A:406:GOL:H11	2.53	0.43
1:A:88:GLU:OE2	1:A:100:HIS:CD2	2.62	0.43
1:A:327:GLU:OE2	1:A:339:HIS:CD2	2.66	0.43
1:A:285:GLY:HA3	1:A:291:TRP:CE2	2.54	0.42
1:A:30[B]:VAL:HG23	1:A:317:THR:HG21	2.02	0.42
1:A:298:HIS:O	1:A:299:ASN:HB2	2.20	0.41
1:A:92:ARG:HD3	1:A:121:ILE:HG13	2.03	0.41
1:A:248:ILE:HG12	1:A:254:SER:HB2	2.02	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	361/381 (95%)	352 (98%)	9 (2%)	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	302/316 (96%)	302 (100%)	0	100 100

There are no protein residues with a non-rotameric sidechain to report.

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	32	ASN
1	A	51	HIS
1	A	100	HIS
1	A	148	HIS
1	A	176	HIS
1	A	196	HIS
1	A	211	GLN
1	A	244	HIS
1	A	304	ASN
1	A	339	HIS

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](#)

13 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
3	GOL	A	412	-	5,5,5	1.07	0	5,5,5	0.75	0
2	FUC	A	401	-	11,11,11	2.22	4 (36%)	15,16,16	2.55	10 (66%)
3	GOL	A	413	-	5,5,5	1.22	0	5,5,5	1.91	2 (40%)
3	GOL	A	409	-	5,5,5	0.47	0	5,5,5	0.73	0
3	GOL	A	406	-	5,5,5	0.53	0	5,5,5	1.04	0
3	GOL	A	407	-	5,5,5	1.36	1 (20%)	5,5,5	1.56	1 (20%)
3	GOL	A	408	-	5,5,5	0.59	0	5,5,5	0.76	0
3	GOL	A	411	-	5,5,5	0.70	0	5,5,5	1.79	2 (40%)
3	GOL	A	405	-	5,5,5	0.72	0	5,5,5	0.78	0
3	GOL	A	410	-	5,5,5	0.50	0	5,5,5	1.18	0
2	FUC	A	402	-	11,11,11	1.48	1 (9%)	15,16,16	2.37	6 (40%)
3	GOL	A	404	-	5,5,5	0.66	0	5,5,5	1.36	1 (20%)
2	FUC	A	403	-	11,11,11	1.13	0	15,16,16	1.51	2 (13%)

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	A	412	-	-	0/4/4/4	-
3	GOL	A	413	-	-	3/4/4/4	-
2	FUC	A	401	-	-	-	0/1/1/1
3	GOL	A	409	-	-	0/4/4/4	-
3	GOL	A	406	-	-	2/4/4/4	-
3	GOL	A	407	-	-	0/4/4/4	-
3	GOL	A	408	-	-	4/4/4/4	-
3	GOL	A	411	-	-	1/4/4/4	-
3	GOL	A	405	-	-	0/4/4/4	-
3	GOL	A	410	-	-	4/4/4/4	-
2	FUC	A	402	-	-	-	0/1/1/1
3	GOL	A	404	-	-	0/4/4/4	-
2	FUC	A	403	-	-	-	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	FUC	O2-C2	4.04	1.52	1.43
2	A	401	FUC	O1-C1	3.63	1.51	1.39
2	A	402	FUC	O3-C3	3.58	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	FUC	C1-C2	2.88	1.59	1.52
2	A	401	FUC	C4-C3	2.22	1.58	1.52
3	A	407	GOL	C3-C2	2.17	1.60	1.51

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	402	FUC	O3-C3-C2	4.43	120.59	110.35
2	A	402	FUC	O1-C1-C2	4.26	121.04	109.03
2	A	402	FUC	O1-C1-O5	-4.07	98.18	110.38
2	A	401	FUC	O1-C1-O5	3.61	121.23	110.38
2	A	403	FUC	O3-C3-C2	3.51	118.46	110.35
2	A	401	FUC	O1-C1-C2	3.49	118.86	109.03
2	A	402	FUC	C1-C2-C3	3.46	117.48	110.31
2	A	401	FUC	C4-C3-C2	3.37	116.70	110.82
2	A	401	FUC	O5-C1-C2	-3.26	104.46	110.28
2	A	401	FUC	O4-C4-C3	-3.26	102.81	110.35
2	A	401	FUC	O2-C2-C1	2.99	116.11	109.16
3	A	407	GOL	C3-C2-C1	2.98	123.29	111.70
3	A	413	GOL	C3-C2-C1	2.86	122.84	111.70
3	A	411	GOL	O2-C2-C3	2.83	121.57	109.12
2	A	401	FUC	O4-C4-C5	2.78	115.82	109.67
2	A	403	FUC	C6-C5-C4	-2.77	107.95	113.07
3	A	413	GOL	O3-C3-C2	2.75	123.40	110.20
2	A	402	FUC	O4-C4-C3	-2.59	104.35	110.35
2	A	401	FUC	C6-C5-C4	2.54	117.77	113.07
3	A	404	GOL	O2-C2-C1	2.42	119.78	109.12
2	A	401	FUC	O5-C5-C4	-2.37	105.27	109.52
2	A	401	FUC	C3-C4-C5	-2.20	106.35	109.77
3	A	411	GOL	O3-C3-C2	2.18	120.64	110.20
2	A	402	FUC	C4-C3-C2	-2.10	107.16	110.82

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	406	GOL	O1-C1-C2-O2
3	A	408	GOL	O1-C1-C2-O2
3	A	408	GOL	O1-C1-C2-C3
3	A	408	GOL	C1-C2-C3-O3
3	A	410	GOL	O1-C1-C2-C3
3	A	410	GOL	C1-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
3	A	413	GOL	C1-C2-C3-O3
3	A	406	GOL	O1-C1-C2-C3
3	A	408	GOL	O2-C2-C3-O3
3	A	410	GOL	O2-C2-C3-O3
3	A	413	GOL	O2-C2-C3-O3
3	A	411	GOL	O2-C2-C3-O3
3	A	410	GOL	O1-C1-C2-O2
3	A	413	GOL	O1-C1-C2-C3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	406	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, 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	354/381 (92%)	-0.44	8 (2%) 60 67	11, 16, 32, 85	0

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	251	ASP	5.5
1	A	250	SER	5.1
1	A	253	VAL	3.7
1	A	249	GLY	3.3
1	A	368	ILE	2.7
1	A	248	ILE	2.7
1	A	252	SER	2.1
1	A	370	GLU	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, 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(\AA^2)	Q<0.9
3	GOL	A	413	6/6	0.62	0.24	53,61,63,78	0
2	FUC	A	403	11/11	0.67	0.30	46,59,76,82	11
3	GOL	A	410	6/6	0.83	0.14	42,52,54,58	0
2	FUC	A	401	11/11	0.90	0.15	22,32,47,62	0
3	GOL	A	408	6/6	0.90	0.13	23,44,48,52	0
2	FUC	A	402	11/11	0.91	0.16	23,36,50,55	0
3	GOL	A	412	6/6	0.93	0.15	24,30,33,34	0
3	GOL	A	406	6/6	0.95	0.09	13,18,23,34	0
3	GOL	A	407	6/6	0.95	0.08	11,13,19,25	0
3	GOL	A	409	6/6	0.96	0.08	27,29,30,37	0
3	GOL	A	405	6/6	0.96	0.09	14,17,22,33	0
3	GOL	A	411	6/6	0.97	0.07	18,22,26,30	0
3	GOL	A	404	6/6	0.98	0.05	14,19,22,23	0

6.5 Other polymers [i](#)

There are no such residues in this entry.