



# wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 13, 2017 – 12:53 pm GMT

PDB ID : 2G7C  
Title : Clostridium difficile Toxin A Fragment Bound to aGal(1,3)bGal(1,4)bGlcNAc  
Authors : Greco, A.; Ho, J.G.S.; Lin, S.J.; Palcic, M.M.; Rupnik, M.; Ng, K.K.S.  
Deposited on : 2006-02-28  
Resolution : 2.00 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

<http://wwpdb.org/validation/2016/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 : 1.7.2 (RC1), CSD as538be (2017)  
Xtriage (Phenix) : 1.9-1692  
EDS : trunk28620  
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : recalc28949

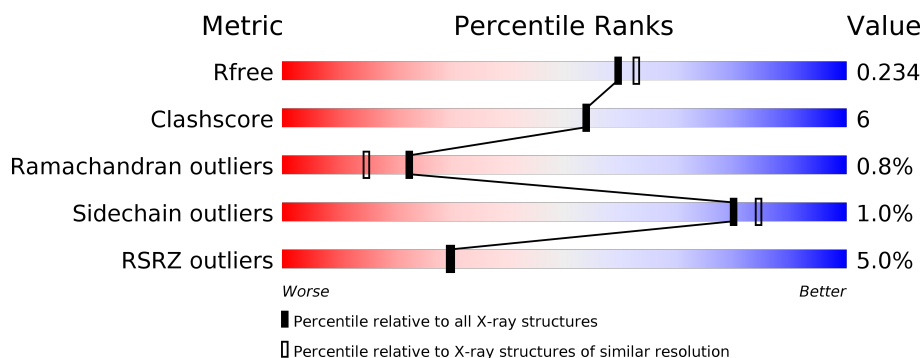
# 1 Overall quality at a glance

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))
$R_{free}$	100719	6609 (2.00-2.00)
Clashscore	112137	7775 (2.00-2.00)
Ramachandran outliers	110173	7679 (2.00-2.00)
Sidechain outliers	110143	7678 (2.00-2.00)
RSRZ outliers	101464	6696 (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 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	255	
1	B	255	

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
3	GOL	A	501	-	-	-	X
3	GOL	A	503	-	-	-	X
3	GOL	B	502	-	-	-	X

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4588 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 Toxin A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	245	Total	C	N	O	S	0	0	0
			1963	1267	326	365	5			
1	B	254	Total	C	N	O	S	0	0	0
			2028	1310	336	377	5			

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	14	MET	LEU	VARIANT SEE REMARK 999	UNP P16154
A	30	GLU	VAL	VARIANT SEE REMARK 999	UNP P16154
A	32	ALA	VAL	VARIANT SEE REMARK 999	UNP P16154
A	39	ASP	ASN	VARIANT SEE REMARK 999	UNP P16154
A	60	ASN	SER	VARIANT SEE REMARK 999	UNP P16154
A	61	ASP	GLY	VARIANT SEE REMARK 999	UNP P16154
A	133	ARG	ASN	VARIANT SEE REMARK 999	UNP P16154
A	143	ILE	MET	VARIANT SEE REMARK 999	UNP P16154
A	150	ILE	THR	VARIANT SEE REMARK 999	UNP P16154
A	171	PRO	SER	VARIANT SEE REMARK 999	UNP P16154
A	188	ASP	GLU	VARIANT SEE REMARK 999	UNP P16154
A	204	ASN	LYS	VARIANT SEE REMARK 999	UNP P16154
A	224	ASN	LYS	VARIANT SEE REMARK 999	UNP P16154
A	225	MET	VAL	VARIANT SEE REMARK 999	UNP P16154
B	14	MET	LEU	VARIANT SEE REMARK 999	UNP P16154
B	30	GLU	VAL	VARIANT SEE REMARK 999	UNP P16154
B	32	ALA	VAL	VARIANT SEE REMARK 999	UNP P16154
B	39	ASP	ASN	VARIANT SEE REMARK 999	UNP P16154
B	60	ASN	SER	VARIANT SEE REMARK 999	UNP P16154
B	61	ASP	GLY	VARIANT SEE REMARK 999	UNP P16154
B	133	ARG	ASN	VARIANT SEE REMARK 999	UNP P16154
B	143	ILE	MET	VARIANT SEE REMARK 999	UNP P16154
B	150	ILE	THR	VARIANT SEE REMARK 999	UNP P16154
B	171	PRO	SER	VARIANT SEE REMARK 999	UNP P16154
B	188	ASP	GLU	VARIANT SEE REMARK 999	UNP P16154

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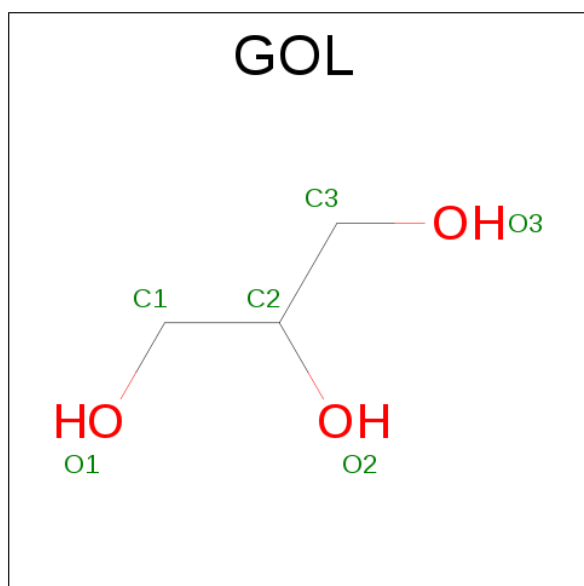
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Chain	Residue	Modelled	Actual	Comment	Reference
B	204	ASN	LYS	VARIANT SEE REMARK 999	UNP P16154
B	224	ASN	LYS	VARIANT SEE REMARK 999	UNP P16154
B	225	MET	VAL	VARIANT SEE REMARK 999	UNP P16154

- Molecule 2 is a polymer of unknown type called SUGAR (3-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	3	Total	C	N	O	0	0
			37	20	1	16		
2	A	3	Total	C	N	O	0	0
			37	20	1	16		
2	B	3	Total	C	N	O	0	0
			37	20	1	16		
2	B	3	Total	C	N	O	0	0
			37	20	1	16		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



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

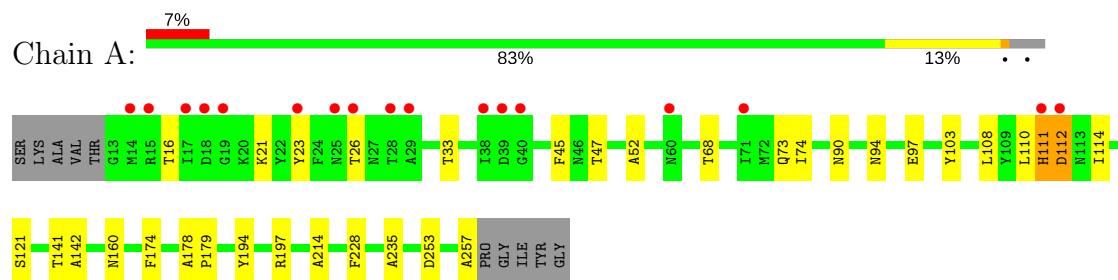
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	206	Total	O	0	0
			206	206		
4	B	207	Total	O	0	0
			207	207		

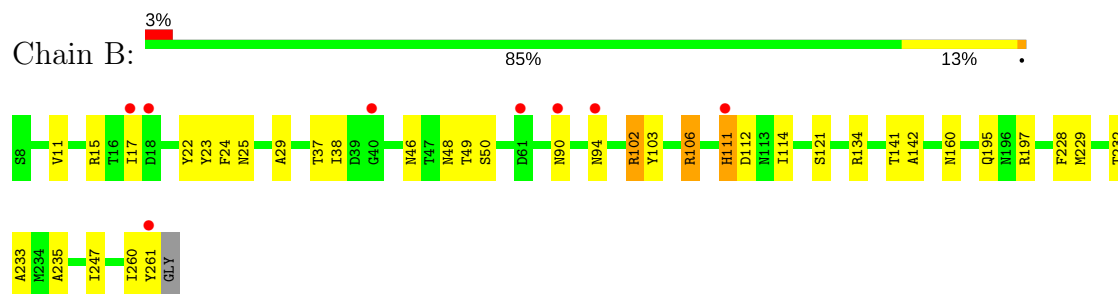
### 3 Residue-property plots [i](#)

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 ( $\text{RSRZ} > 2$ ). 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: Toxin A



#### • Molecule 1: Toxin A



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	38.68Å 132.82Å 65.92Å 90.00° 100.29° 90.00°	Depositor
Resolution (Å)	60.00 – 2.00 46.40 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.9 (60.00-2.00) 99.9 (46.40-2.00)	Depositor EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	0.05	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	6.28 (at 2.00Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.195 , 0.236 0.193 , 0.234	Depositor DCC
$R_{free}$ test set	2210 reflections (5.28%)	DCC
Wilson B-factor (Å <sup>2</sup> )	19.9	Xtriage
Anisotropy	0.094	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 54.6	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	4588	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.38% 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: GOL, GAL, NAG, GLA

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	0.40	0/2021	0.66	0/2740
1	B	0.39	0/2088	0.65	0/2832
All	All	0.40	0/4109	0.66	0/5572

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 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	1963	0	1829	18	0
1	B	2028	0	1898	31	0
2	A	74	0	66	0	0
2	B	74	0	66	0	0
3	A	24	0	32	1	0
3	B	12	0	16	0	0
4	A	206	0	0	1	0
4	B	207	0	0	1	0
All	All	4588	0	3907	49	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 6.

The worst 5 of 49 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:15:ARG:HG3	1:B:15:ARG:HH11	1.27	0.97
1:B:195:GLN:O	1:B:197:ARG:HG3	1.93	0.67
1:B:15:ARG:NH1	1:B:15:ARG:HG3	2.03	0.63
1:B:11:VAL:HG12	1:B:29:ALA:HA	1.79	0.62
1:B:102:ARG:HB3	1:B:102:ARG:HH11	1.66	0.61

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	243/255 (95%)	235 (97%)	5 (2%)	3 (1%)	15	8
1	B	252/255 (99%)	243 (96%)	8 (3%)	1 (0%)	38	33
All	All	495/510 (97%)	478 (97%)	13 (3%)	4 (1%)	22	15

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	26	THR
1	A	111	HIS
1	B	111	HIS
1	A	112	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	194/201 (96%)	192 (99%)	2 (1%)	80	84
1	B	201/201 (100%)	199 (99%)	2 (1%)	80	84
All	All	395/402 (98%)	391 (99%)	4 (1%)	80	84

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	68	THR
1	A	97	GLU
1	B	102	ARG
1	B	106	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
1	A	140	ASN
1	B	181	ASN
1	B	48	ASN
1	A	36	GLN
1	B	140	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 ⓘ

12 carbohydrates 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	GLA	A	1	2	11,11,12	0.46	0	13,15,17	0.67	1 (7%)
2	GAL	A	2	2	11,11,12	0.63	0	13,15,17	1.17	1 (7%)
2	GLA	A	263	2	11,11,12	0.51	0	13,15,17	0.94	1 (7%)
2	GAL	A	264	2	11,11,12	0.59	0	13,15,17	1.20	1 (7%)
2	NAG	A	265	2	15,15,15	0.44	0	21,21,21	0.67	0
2	NAG	A	3	2	15,15,15	0.41	0	21,21,21	0.58	0
2	GLA	B	1	2	11,11,12	0.44	0	13,15,17	0.68	1 (7%)
2	GAL	B	2	2	11,11,12	0.64	0	13,15,17	1.36	1 (7%)
2	GLA	B	263	2	11,11,12	0.63	0	13,15,17	0.90	1 (7%)
2	GAL	B	264	2	11,11,12	0.44	0	13,15,17	1.01	1 (7%)
2	NAG	B	265	2	15,15,15	0.37	0	21,21,21	0.68	0
2	NAG	B	3	2	15,15,15	0.42	0	21,21,21	0.59	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	GLA	A	1	2	-	0/2/19/22	0/1/1/1
2	GAL	A	2	2	-	0/2/19/22	0/1/1/1
2	GLA	A	263	2	-	0/2/19/22	0/1/1/1
2	GAL	A	264	2	-	0/2/19/22	0/1/1/1
2	NAG	A	265	2	-	0/6/26/26	0/1/1/1
2	NAG	A	3	2	-	0/6/26/26	0/1/1/1
2	GLA	B	1	2	-	0/2/19/22	0/1/1/1
2	GAL	B	2	2	-	0/2/19/22	0/1/1/1
2	GLA	B	263	2	-	0/2/19/22	0/1/1/1
2	GAL	B	264	2	-	0/2/19/22	0/1/1/1
2	NAG	B	265	2	-	0/6/26/26	0/1/1/1
2	NAG	B	3	2	-	0/6/26/26	0/1/1/1

There are no bond length outliers.

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1	GLA	C1-O5-C5	2.07	115.02	112.17
2	A	1	GLA	C1-O5-C5	2.14	115.11	112.17
2	B	263	GLA	C1-O5-C5	2.14	115.11	112.17
2	A	263	GLA	C1-O5-C5	2.68	115.86	112.17
2	B	264	GAL	C1-C2-C3	2.79	113.19	109.65

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.6 Ligand geometry [i](#)

6 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	501	-	5,5,5	0.30	0	5,5,5	0.19	0
3	GOL	A	503	-	5,5,5	0.09	0	5,5,5	0.38	0
3	GOL	A	504	-	5,5,5	0.32	0	5,5,5	0.24	0
3	GOL	A	505	-	5,5,5	0.25	0	5,5,5	0.27	0
3	GOL	B	502	-	5,5,5	0.26	0	5,5,5	0.24	0
3	GOL	B	506	-	5,5,5	0.29	0	5,5,5	0.23	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	A	501	-	-	0/4/4/4	0/0/0/0
3	GOL	A	503	-	-	0/4/4/4	0/0/0/0
3	GOL	A	504	-	-	0/4/4/4	0/0/0/0
3	GOL	A	505	-	-	0/4/4/4	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	B	502	-	-	0/4/4/4	0/0/0/0
3	GOL	B	506	-	-	0/4/4/4	0/0/0/0

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.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	501	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, 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	245/255 (96%)	0.08	17 (6%) 18 18	9, 20, 59, 74	0
1	B	254/255 (99%)	0.00	8 (3%) 49 49	11, 22, 43, 55	0
All	All	499/510 (97%)	0.04	25 (5%) 30 30	9, 21, 51, 74	0

The worst 5 of 25 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	111	HIS	5.4
1	A	26	THR	4.5
1	A	112	ASP	4.3
1	A	19	GLY	4.0
1	A	17	ILE	3.9

### 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](#)

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
2	GAL	B	2	11/12	0.85	0.15	0.19	32,34,35,36	0
2	NAG	A	3	15/15	0.91	0.12	-0.03	26,30,40,40	0
2	GLA	B	263	11/12	0.91	0.13	-0.07	21,24,30,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
2	NAG	B	3	15/15	0.90	0.14	-0.16	30,32,40,43	0
2	NAG	A	265	15/15	0.95	0.11	-0.27	9,12,14,15	0
2	NAG	B	265	15/15	0.92	0.12	-0.44	18,20,24,25	0
2	GAL	A	2	11/12	0.94	0.10	-0.52	25,27,31,32	0
2	GAL	A	264	11/12	0.98	0.10	-0.57	6,10,12,14	0
2	GLA	A	1	11/12	0.90	0.13	-0.59	33,35,39,39	0
2	GLA	B	1	11/12	0.87	0.16	-0.61	34,35,39,40	0
2	GAL	B	264	11/12	0.97	0.09	-0.78	15,18,21,23	0
2	GLA	A	263	11/12	0.98	0.09	-3.56	12,14,16,17	0

## 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
3	GOL	A	503	6/6	0.84	0.20	13.69	39,45,46,49	0
3	GOL	A	501	6/6	0.78	0.16	6.93	42,48,49,49	0
3	GOL	B	502	6/6	0.92	0.12	3.58	20,24,27,35	0
3	GOL	A	504	6/6	0.85	0.15	0.54	58,59,60,60	0
3	GOL	B	506	6/6	0.88	0.14	-0.30	44,45,45,46	0
3	GOL	A	505	6/6	0.97	0.11	-0.43	24,29,32,38	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.