



# wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 19, 2024 – 11:16 AM EDT

PDB ID : 5T5L  
Title : LECTIN FROM BAUHINIA FORFICATA IN COMPLEX WITH TN-  
PEPTIDE  
Authors : Lubkowski, J.; Wlodawer, A.  
Deposited on : 2016-08-31  
Resolution : 1.17 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)

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<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>.

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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	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

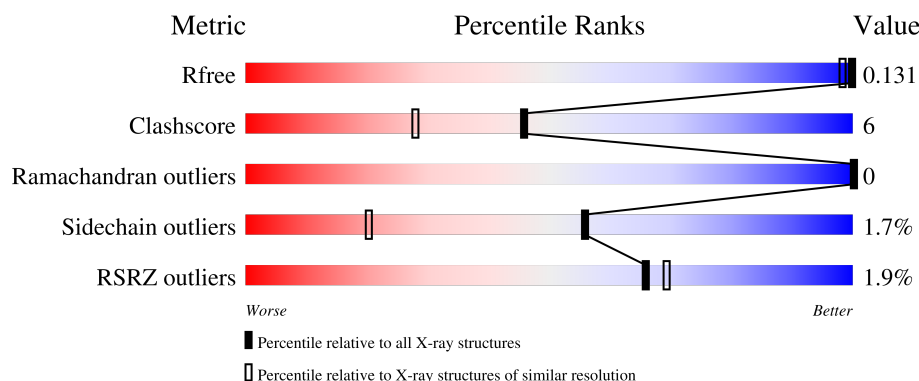
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 1.17 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))
$R_{free}$	164625	1569 (1.20-1.16)
Clashscore	180529	1711 (1.20-1.16)
Ramachandran outliers	177936	1657 (1.20-1.16)
Sidechain outliers	177891	1657 (1.20-1.16)
RSRZ outliers	164620	1568 (1.20-1.16)

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	242	<div> <div>84%</div> <div>9% • 5%</div> </div>
1	B	242	<div> <div>88%</div> <div>6% • 5%</div> </div>
2	a	5	<div> <div>20%</div> <div>80%</div> <div>20%</div> </div>
2	b	5	<div> <div>40%</div> <div>100%</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
4	EDO	A	304	-	X	-	-
4	EDO	A	306	-	-	X	-
5	GOL	B	306	-	X	-	-

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 4337 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 Lectin.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	0	16	0
			1878	1192	321	365			
1	B	229	Total	C	N	O	0	13	0
			1846	1175	309	362			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	234	GLY	-	expression tag	UNP P86993
A	235	ALA	-	expression tag	UNP P86993
A	236	ARG	-	expression tag	UNP P86993
A	237	HIS	-	expression tag	UNP P86993
A	238	HIS	-	expression tag	UNP P86993
A	239	HIS	-	expression tag	UNP P86993
A	240	HIS	-	expression tag	UNP P86993
A	241	HIS	-	expression tag	UNP P86993
A	242	HIS	-	expression tag	UNP P86993
B	234	GLY	-	expression tag	UNP P86993
B	235	ALA	-	expression tag	UNP P86993
B	236	ARG	-	expression tag	UNP P86993
B	237	HIS	-	expression tag	UNP P86993
B	238	HIS	-	expression tag	UNP P86993
B	239	HIS	-	expression tag	UNP P86993
B	240	HIS	-	expression tag	UNP P86993
B	241	HIS	-	expression tag	UNP P86993
B	242	HIS	-	expression tag	UNP P86993

- Molecule 2 is a protein called TN ANTIGEN ACE-SER-SER-VAL-GLY.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	a	4	Total	C	N	O	0	0	0
			22	13	3	6			

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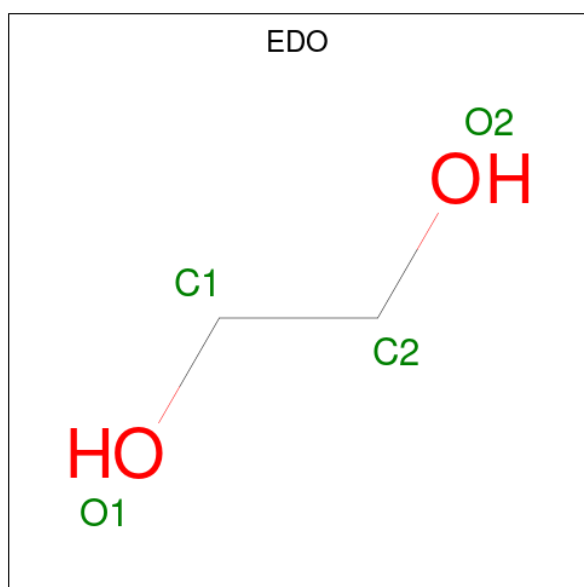
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	b	5	Total	C	N	O	0	0	0
			26	15	4	7			

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

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

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).



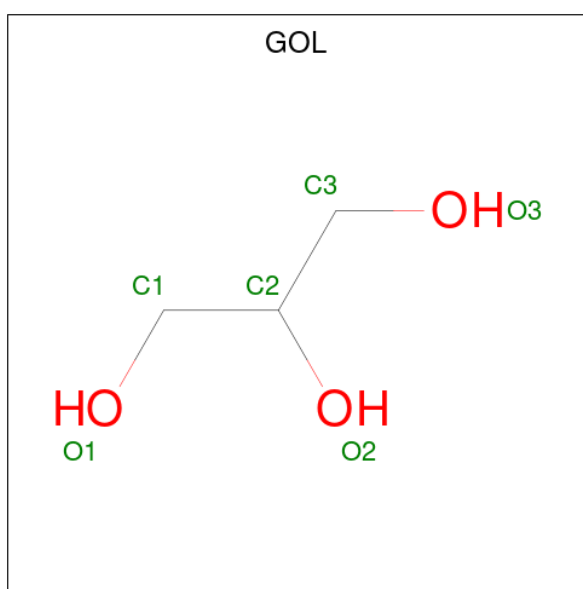
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	B	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total	C	O	0	0
			4	2	2		
4	B	1	Total	C	O	0	0
			4	2	2		
4	B	1	Total	C	O	0	0
			4	2	2		
4	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).

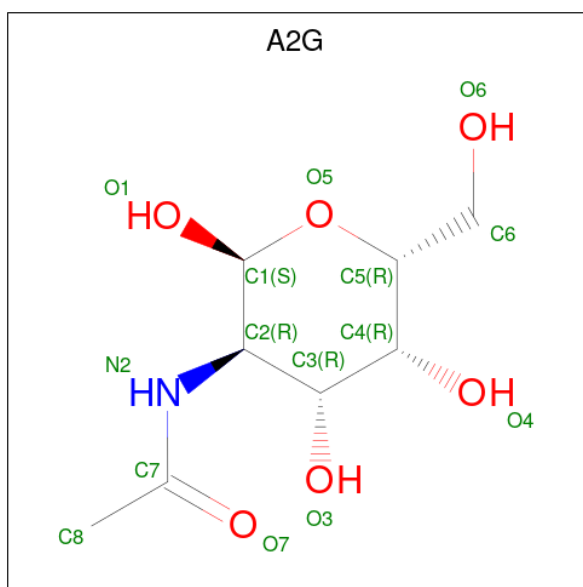


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula:  $Cl$ ).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	1	Total	Cl	0	0
			1	1		

- Molecule 7 is 2-acetamido-2-deoxy- $\alpha$ -D-galactopyranose (three-letter code: A2G) (formula:  $C_8H_{15}NO_6$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	a	1	Total	C	N	O	0	0
			14	8	1	5		
7	b	1	Total	C	N	O	0	0
			14	8	1	5		

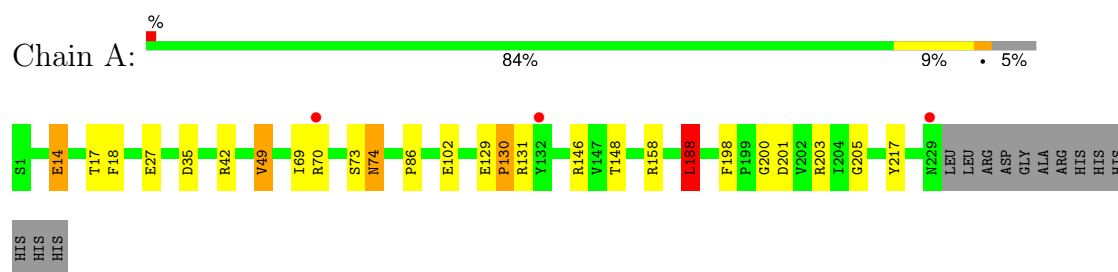
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	234	Total	O	0	2
			236	236		
8	B	232	Total	O	0	0
			232	232		
8	a	7	Total	O	0	0
			7	7		
8	b	11	Total	O	0	0
			11	11		

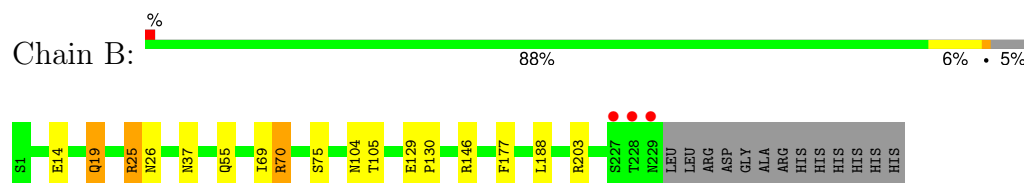
### 3 Residue-property plots [i](#)

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.

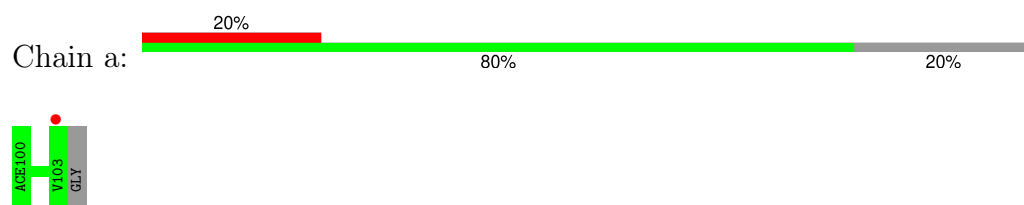
- Molecule 1: Lectin



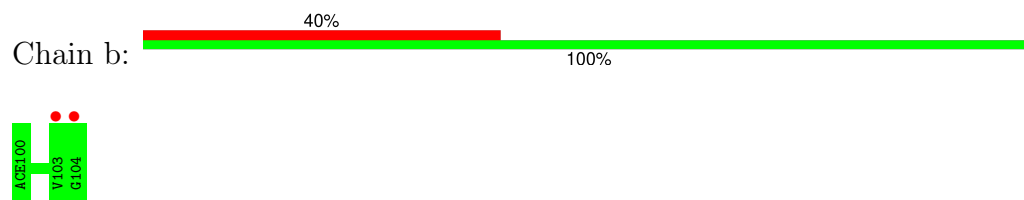
- Molecule 1: Lectin



- Molecule 2: TN ANTIGEN ACE-SER-SER-VAL-GLY



- Molecule 2: TN ANTIGEN ACE-SER-SER-VAL-GLY



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	44.87Å 88.50Å 110.78Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.30 – 1.17 30.30 – 1.17	Depositor EDS
% Data completeness (in resolution range)	97.2 (30.30-1.17) 97.2 (30.30-1.17)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.28 (at 1.17Å)	Xtriage
Refinement program	REFMAC 5.8.0107	Depositor
R, $R_{free}$	0.107 , 0.130 0.108 , 0.131	Depositor DCC
$R_{free}$ test set	4270 reflections (2.97%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	15.0	Xtriage
Anisotropy	0.276	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.38 , 53.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.98	EDS
Total number of atoms	4337	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.03% 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 [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CA, GOL, ACE, A2G, CL, EDO

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	0.91	9/2002 (0.4%)	0.98	10/2732 (0.4%)
1	B	0.97	5/1960 (0.3%)	0.94	2/2679 (0.1%)
2	a	1.40	0/19	0.78	0/25
2	b	1.32	0/23	1.04	0/30
All	All	0.95	14/4004 (0.3%)	0.96	12/5466 (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

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	14	GLU	CD-OE1	13.31	1.40	1.25
1	B	14	GLU	CD-OE2	8.29	1.34	1.25
1	A	27	GLU	CD-OE2	6.50	1.32	1.25
1	B	19[A]	GLN	CD-OE1	-5.65	1.11	1.24
1	B	19[B]	GLN	CD-OE1	-5.65	1.11	1.24

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	203	ARG	NE-CZ-NH1	9.36	124.98	120.30
1	A	188[A]	LEU	CB-CG-CD1	7.24	123.30	111.00
1	A	188[B]	LEU	CB-CG-CD1	7.24	123.30	111.00
1	A	14[A]	GLU	N-CA-CB	-6.19	99.45	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	14[B]	GLU	N-CA-CB	-6.19	99.45	110.60

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	131	ARG	Mainchain

## 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	1878	0	1773	20	0
1	B	1846	0	1755	22	0
2	a	22	0	21	0	0
2	b	26	0	24	0	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
4	A	20	0	30	9	0
4	B	20	0	28	2	0
5	B	6	0	8	0	0
6	B	1	0	0	0	0
7	a	14	0	12	0	0
7	b	14	0	12	0	0
8	A	236	0	0	6	2
8	B	232	0	0	14	1
8	a	7	0	0	0	0
8	b	11	0	0	0	0
All	All	4337	0	3663	43	2

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 43 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:42[B]:ARG:NH1	8:A:403:HOH:O	1.86	1.08
1:B:104[B]:ASN:OD1	8:B:401:HOH:O	1.77	1.01
1:B:70:ARG:NH1	8:B:403:HOH:O	1.94	0.99
1:B:104[B]:ASN:ND2	8:B:402:HOH:O	1.94	0.96
1:B:104[B]:ASN:CG	8:B:401:HOH:O	2.02	0.95

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:553:HOH:O	8:B:573:HOH:O[3_555]	1.94	0.26
8:A:584:HOH:O	8:A:616:HOH:O[4_456]	2.09	0.11

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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	243/242 (100%)	237 (98%)	6 (2%)	0	100	100
1	B	240/242 (99%)	234 (98%)	6 (2%)	0	100	100
2	a	2/5 (40%)	2 (100%)	0	0	100	100
2	b	3/5 (60%)	3 (100%)	0	0	100	100
All	All	488/494 (99%)	476 (98%)	12 (2%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains ⓘ

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	214/209 (102%)	208 (97%)	6 (3%)	38	6
1	B	211/209 (101%)	207 (98%)	4 (2%)	52	15
2	a	3/3 (100%)	3 (100%)	0	100	100
2	b	3/3 (100%)	3 (100%)	0	100	100
All	All	431/424 (102%)	421 (98%)	10 (2%)	56	11

5 of 10 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	70	ARG
1	B	75[A]	SER
1	B	75[B]	SER
1	A	130	PRO
1	A	188[A]	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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 [i](#)

Of 18 ligands modelled in this entry, 5 are monoatomic - leaving 13 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
4	EDO	A	305	-	3,3,3	0.59	0	2,2,2	0.40	0
4	EDO	A	306	-	3,3,3	0.74	0	2,2,2	0.93	0
4	EDO	B	305	-	3,3,3	0.75	0	2,2,2	0.17	0
4	EDO	A	303	-	3,3,3	0.48	0	2,2,2	0.97	0
4	EDO	A	307	-	3,3,3	0.40	0	2,2,2	0.19	0
4	EDO	B	309	-	3,3,3	0.44	0	2,2,2	0.06	0
4	EDO	B	304	-	3,3,3	0.38	0	2,2,2	0.26	0
4	EDO	B	308	-	3,3,3	3.32	2 (66%)	2,2,2	0.16	0
7	A2G	a	201	2	14,14,15	0.89	1 (7%)	17,19,21	0.84	0
4	EDO	A	304	-	3,3,3	0.97	0	2,2,2	3.16	2 (100%)
7	A2G	b	201	2	14,14,15	0.74	0	17,19,21	0.89	1 (5%)
5	GOL	B	306	-	5,5,5	1.31	1 (20%)	5,5,5	2.26	3 (60%)
4	EDO	B	303	-	3,3,3	0.33	0	2,2,2	0.61	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
4	EDO	A	305	-	-	0/1/1/1	-
4	EDO	A	306	-	-	0/1/1/1	-
4	EDO	B	305	-	-	1/1/1/1	-
4	EDO	A	303	-	-	1/1/1/1	-
4	EDO	A	307	-	-	0/1/1/1	-
4	EDO	B	309	-	-	0/1/1/1	-
4	EDO	B	304	-	-	0/1/1/1	-
4	EDO	B	308	-	-	0/1/1/1	-
7	A2G	a	201	2	-	0/6/23/26	0/1/1/1
4	EDO	A	304	-	-	1/1/1/1	-
7	A2G	b	201	2	-	0/6/23/26	0/1/1/1
5	GOL	B	306	-	-	4/4/4/4	-
4	EDO	B	303	-	-	0/1/1/1	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	308	EDO	O2-C2	-4.91	1.17	1.42
4	B	308	EDO	O1-C1	-3.00	1.26	1.42
7	a	201	A2G	O5-C5	2.43	1.48	1.43
5	B	306	GOL	O2-C2	2.35	1.50	1.43

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	304	EDO	O1-C1-C2	3.62	139.93	112.39
5	B	306	GOL	C3-C2-C1	-3.18	100.12	111.80
5	B	306	GOL	O2-C2-C1	2.71	120.42	109.18
4	A	304	EDO	O2-C2-C1	-2.63	92.32	112.39
5	B	306	GOL	O2-C2-C3	2.47	119.40	109.18

There are no chirality outliers.

5 of 7 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	306	GOL	O1-C1-C2-C3
5	B	306	GOL	C1-C2-C3-O3
4	B	305	EDO	O1-C1-C2-O2
5	B	306	GOL	O2-C2-C3-O3
4	A	304	EDO	O1-C1-C2-O2

There are no ring outliers.

3 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	306	EDO	7	0
4	B	308	EDO	2	0
4	A	304	EDO	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 [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	229/242 (94%)	0.09	3 (1%) 74 78	8, 15, 29, 64	16 (6%)
1	B	229/242 (94%)	0.16	3 (1%) 74 78	9, 16, 34, 71	13 (5%)
2	a	3/5 (60%)	2.41	1 (33%) 1 1	25, 25, 26, 38	0
2	b	4/5 (80%)	1.90	2 (50%) 0 0	22, 24, 30, 49	0
All	All	465/494 (94%)	0.16	9 (1%) 66 69	8, 16, 32, 71	29 (6%)

The worst 5 of 9 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	a	103	VAL	4.5
1	A	229	ASN	4.3
2	b	104	GLY	3.3
2	b	103	VAL	3.0
1	B	228	THR	2.8

### 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
5	GOL	B	306	6/6	0.86	0.15	19,26,30,32	6
4	EDO	A	305	4/4	0.89	0.12	36,41,42,49	0
4	EDO	B	303	4/4	0.90	0.12	23,30,31,33	0
4	EDO	A	303	4/4	0.92	0.13	25,31,34,34	0
4	EDO	B	304	4/4	0.94	0.08	25,25,26,28	0
4	EDO	B	305	4/4	0.94	0.12	28,43,55,55	0
4	EDO	A	304	4/4	0.94	0.08	20,28,30,52	0
4	EDO	A	306	4/4	0.95	0.07	25,32,40,40	0
4	EDO	B	308	4/4	0.97	0.07	18,19,23,26	0
4	EDO	A	307	4/4	0.97	0.08	19,22,25,26	0
4	EDO	B	309	4/4	0.98	0.08	20,23,24,26	0
7	A2G	a	201	14/15	0.98	0.05	13,14,17,20	0
7	A2G	b	201	14/15	0.98	0.05	13,14,16,18	0
3	CA	A	302	1/1	1.00	0.01	12,12,12,12	0
3	CA	B	301	1/1	1.00	0.03	12,12,12,12	0
6	CL	B	307	1/1	1.00	0.05	17,17,17,17	0
3	CA	B	302	1/1	1.00	0.02	12,12,12,12	0
3	CA	A	301	1/1	1.00	0.02	12,12,12,12	0

## 6.5 Other polymers ⓘ

There are no such residues in this entry.