



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 04:53 PM UTC

PDB ID : 6EBN / pdb\_00006ebn  
Title : Crystal structure of Psilocybe cubensis noncanonical aromatic amino acid de-carboxylase  
Authors : Torrens-Spence, M.P.; Chun-Ting, L.; Pluskal, T.; Chung, Y.K.; Weng, J.K.  
Deposited on : 2018-08-06  
Resolution : 1.97 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

<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 : 4-5-2 with Phenix2.0  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtriage (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

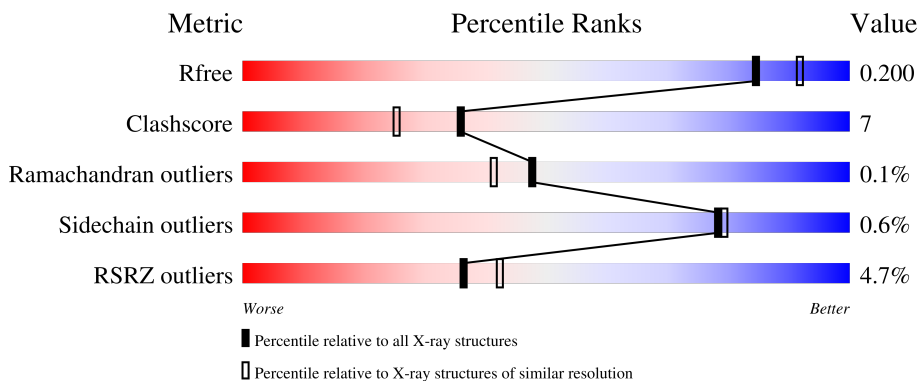
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.97 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	3494 (1.96-1.96)
Clashscore	190562	3612 (1.96-1.96)
Ramachandran outliers	187476	3587 (1.96-1.96)
Sidechain outliers	187428	3587 (1.96-1.96)
RSRZ outliers	180081	3495 (1.96-1.96)

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	1013	 4% 83% 12% • 5%
1	B	1013	 5% 82% 12% • 5%

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	FMT	A	1107	-	-	X	-

## 2 Entry composition [i](#)

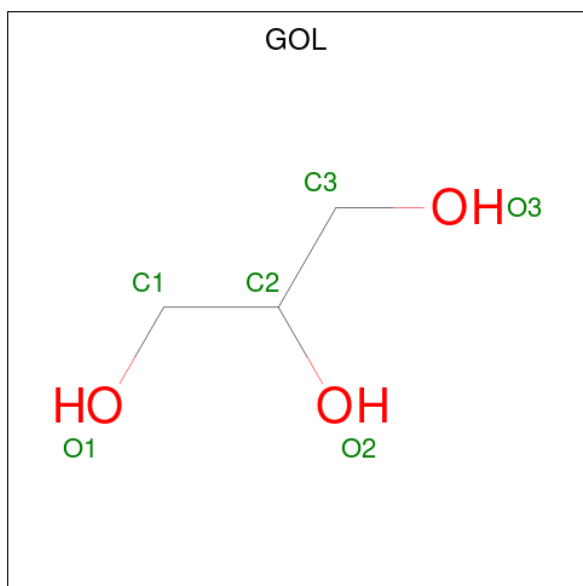
There are 5 unique types of molecules in this entry. The entry contains 16366 atoms, of which 64 are hydrogens and 0 are deuteriums.

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 non canonical aromatic amino acid decarboxylase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	P	S			
1	A	961	Total 7680	C 4863	N 1310	O 1474	P 1	S 32	0	13	0
1	B	958	Total 7581	C 4802	N 1288	O 1458	P 1	S 32	0	5	0

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



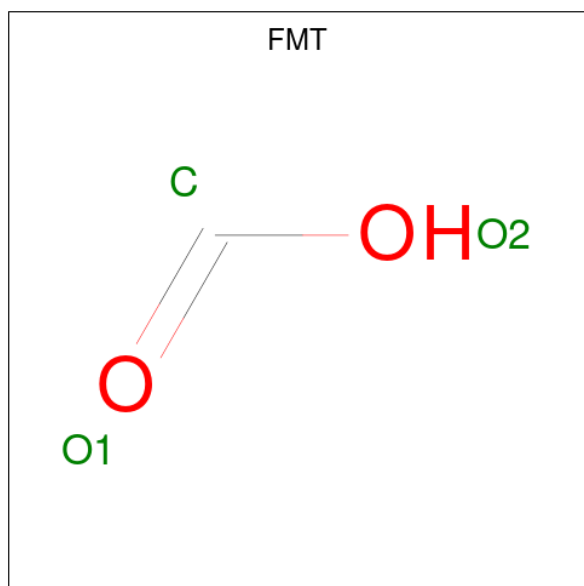
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
2	A	1	Total 14	C 3	H 8	O 3	0	0
2	A	1	Total 14	C 3	H 8	O 3	0	0
2	A	1	Total 14	C 3	H 8	O 3	0	0
2	B	1	Total 14	C 3	H 8	O 3	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
2	B	1	14	3	8	3	0	0

- Molecule 3 is FORMIC ACID (CCD ID: FMT) (formula: CH<sub>2</sub>O<sub>2</sub>).



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

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	B	1	Total	C	H	O	0	0
			5	1	2	2		
3	B	1	Total	C	H	O	0	0
			5	1	2	2		

- Molecule 4 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	2	Total	Na	0	0
			2	2		
4	B	2	Total	Na	0	0
			2	2		

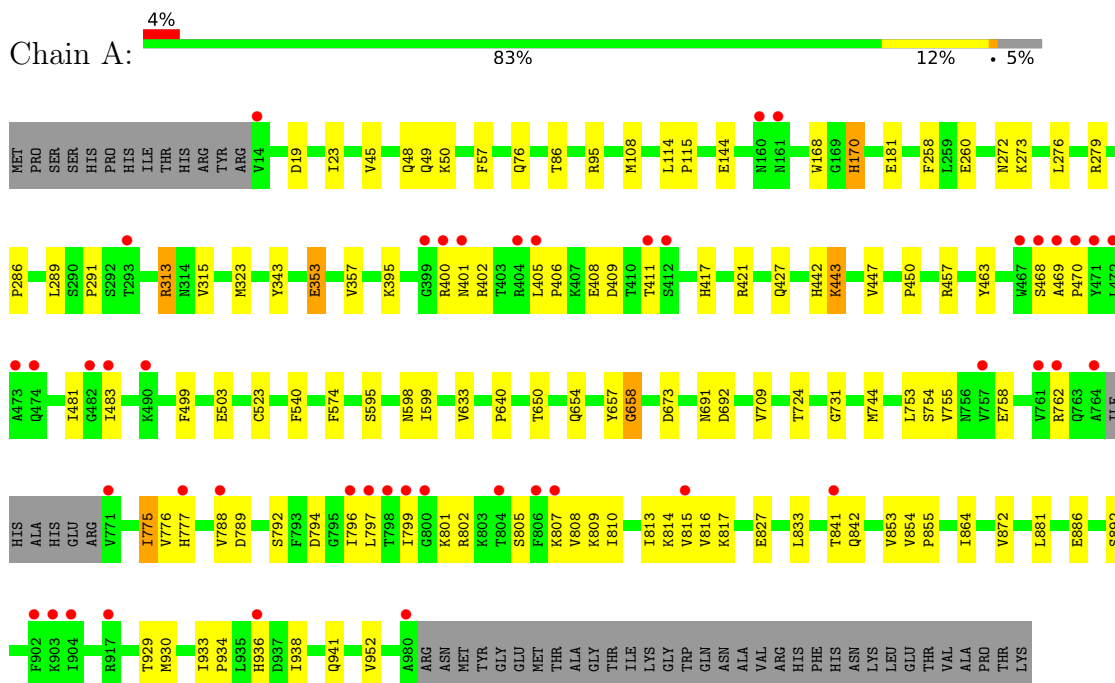
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	503	Total	O	0	0
			503	503		
5	B	468	Total	O	0	0
			468	468		

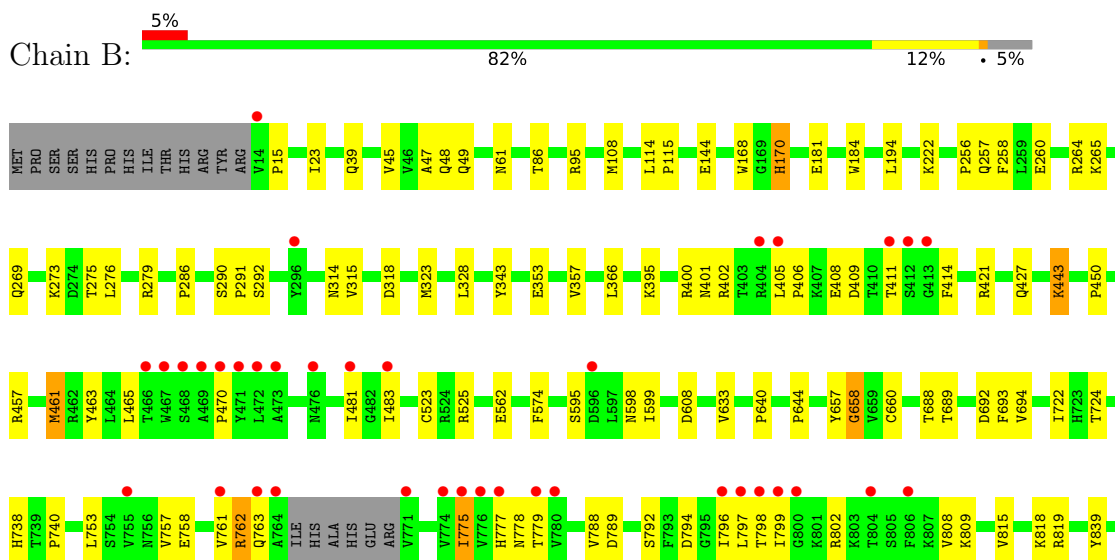
### 3 Residue-property plots [i](#)

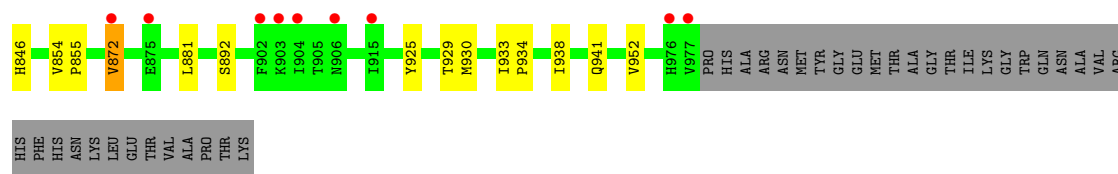
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: non canonical aromatic amino acid decarboxylase



- Molecule 1: non canonical aromatic amino acid decarboxylase





## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	238.72Å 143.57Å 71.41Å 90.00° 92.78° 90.00°	Depositor
Resolution (Å)	71.78 – 1.97 71.78 – 1.97	Depositor EDS
% Data completeness (in resolution range)	89.7 (71.78-1.97) 89.5 (71.78-1.97)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.83 (at 1.97Å)	Xtrriage
Refinement program	PHENIX 1.12_2829	Depositor
R, $R_{free}$	0.170 , 0.197 0.176 , 0.200	Depositor DCC
$R_{free}$ test set	2001 reflections (1.19%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	31.1	Xtrriage
Anisotropy	0.113	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 40.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.025 for -h,-k,l	Xtrriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	16366	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	47.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.71% 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: LLP, NA, FMT, 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	0.50	0/7829	0.59	2/10642 (0.0%)
1	B	0.48	1/7727 (0.0%)	0.59	3/10505 (0.0%)
All	All	0.49	1/15556 (0.0%)	0.59	5/21147 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	47	ALA	C-O	-5.16	1.18	1.24

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	952	VAL	CB-CA-C	-6.89	105.85	111.71
1	B	353[A]	GLU	N-CA-C	5.62	119.86	112.89
1	B	353[B]	GLU	N-CA-C	5.62	119.86	112.89
1	A	353[A]	GLU	N-CA-C	5.35	118.27	111.69
1	A	353[B]	GLU	N-CA-C	5.35	118.27	111.69

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	7680	0	7516	108	0
1	B	7581	0	7422	120	0
2	A	18	24	23	3	0
2	B	12	16	15	5	0
3	A	18	12	6	3	0
3	B	18	12	6	2	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
5	A	503	0	0	4	0
5	B	468	0	0	13	0
All	All	16302	64	14988	220	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 7.

The worst 5 of 220 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:724:THR:HG23	1:A:775:ILE:HD13	1.53	0.90
1:B:797:LEU:HD13	1:B:808:VAL:HG21	1.53	0.89
1:A:797:LEU:HD13	1:A:808:VAL:HG11	1.55	0.89
1:A:48:GLN:HE22	1:B:86:THR:HG23	1.36	0.86
1:A:315:VAL:HB	1:A:323:MET:HE2	1.58	0.84

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	969/1013 (96%)	943 (97%)	25 (3%)	1 (0%)	48 41
1	B	958/1013 (95%)	932 (97%)	25 (3%)	1 (0%)	48 41
All	All	1927/2026 (95%)	1875 (97%)	50 (3%)	2 (0%)	48 41

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	658	GLY
1	A	658	GLY

### 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	839/871 (96%)	834 (99%)	5 (1%)	78	79
1	B	829/871 (95%)	824 (99%)	5 (1%)	78	79
All	All	1668/1742 (96%)	1658 (99%)	10 (1%)	78	79

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

Mol	Chain	Res	Type
1	B	762	ARG
1	B	775	ILE
1	B	872	VAL
1	A	775	ILE
1	A	801	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 18 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	417	HIS
1	B	907	GLN
1	B	733	GLN
1	A	940	ASN
1	B	344	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](#)

2 non-standard protein/DNA/RNA residues 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
1	LLP	A	443	1	23,24,25	2.62	7 (30%)	25,32,34	1.64	6 (24%)
1	LLP	B	443	1	23,24,25	2.46	7 (30%)	25,32,34	1.47	5 (20%)

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
1	LLP	A	443	1	-	4/16/17/19	0/1/1/1
1	LLP	B	443	1	-	4/16/17/19	0/1/1/1

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	443	LLP	C4-C4'	7.15	1.61	1.46
1	B	443	LLP	C4-C4'	7.12	1.61	1.46
1	A	443	LLP	C4'-NZ	5.53	1.45	1.27
1	B	443	LLP	C4'-NZ	5.21	1.44	1.27
1	A	443	LLP	C6-N1	3.81	1.42	1.34

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	443	LLP	C4-C4'-NZ	-4.27	104.33	124.04
1	B	443	LLP	C4-C4'-NZ	-3.79	106.55	124.04
1	A	443	LLP	C3-C4-C5	2.83	120.55	118.28
1	B	443	LLP	C3-C4-C5	2.66	120.42	118.28
1	A	443	LLP	C5-C6-N1	-2.37	119.97	123.83

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	443	LLP	C3-C4-C4'-NZ
1	A	443	LLP	C4-C4'-NZ-CE
1	A	443	LLP	O-C-CA-CB
1	B	443	LLP	C3-C4-C4'-NZ
1	B	443	LLP	C4-C4'-NZ-CE

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	443	LLP	1	0
1	B	443	LLP	1	0

## 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 21 ligands modelled in this entry, 4 are monoatomic - leaving 17 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	FMT	B	1105	-	2,2,2	0.71	0	1,1,1	0.46	0
2	GOL	A	1103	-	5,5,5	1.19	1 (20%)	5,5,5	0.83	0
3	FMT	A	1109	-	2,2,2	0.71	0	1,1,1	0.46	0
3	FMT	B	1108	-	2,2,2	0.72	0	1,1,1	0.49	0
3	FMT	B	1104	-	2,2,2	0.93	0	1,1,1	0.63	0
3	FMT	B	1107	-	2,2,2	0.66	0	1,1,1	0.40	0
2	GOL	A	1101	-	5,5,5	1.35	0	5,5,5	0.96	0
3	FMT	A	1107	-	2,2,2	0.63	0	1,1,1	0.38	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	GOL	A	1102	-	5,5,5	1.59	1 (20%)	5,5,5	1.22	0
2	GOL	B	1102	-	5,5,5	1.56	1 (20%)	5,5,5	0.89	0
3	FMT	A	1104	-	2,2,2	0.63	0	1,1,1	0.36	0
3	FMT	A	1105	-	2,2,2	0.84	0	1,1,1	0.62	0
3	FMT	A	1108	-	2,2,2	0.66	0	1,1,1	0.35	0
3	FMT	A	1106	-	2,2,2	1.04	0	1,1,1	0.58	0
3	FMT	B	1106	-	2,2,2	0.72	0	1,1,1	0.47	0
3	FMT	B	1103	-	2,2,2	0.63	0	1,1,1	0.39	0
2	GOL	B	1101	-	5,5,5	0.72	0	5,5,5	1.09	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	GOL	A	1103	-	-	0/4/4/4	-
2	GOL	A	1101	-	-	2/4/4/4	-
2	GOL	A	1102	-	-	0/4/4/4	-
2	GOL	B	1102	-	-	3/4/4/4	-
2	GOL	B	1101	-	-	0/4/4/4	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1102	GOL	O2-C2	-3.18	1.34	1.43
2	B	1102	GOL	O2-C2	-3.04	1.34	1.43
2	A	1103	GOL	O2-C2	-2.10	1.37	1.43

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1102	GOL	C1-C2-C3-O3
2	B	1102	GOL	O2-C2-C3-O3
2	A	1101	GOL	C1-C2-C3-O3
2	A	1101	GOL	O2-C2-C3-O3
2	B	1102	GOL	O1-C1-C2-O2

There are no ring outliers.

8 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	1105	FMT	1	0
2	A	1103	GOL	1	0
3	B	1104	FMT	1	0
3	A	1107	FMT	2	0
2	A	1102	GOL	2	0
2	B	1102	GOL	3	0
3	A	1104	FMT	1	0
2	B	1101	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 [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	960/1013 (94%)	0.08	45 (4%) 36 42	14, 40, 82, 132	13 (1%)
1	B	957/1013 (94%)	0.16	46 (4%) 35 41	21, 42, 84, 130	5 (0%)
All	All	1917/2026 (94%)	0.12	91 (4%) 36 42	14, 41, 84, 132	18 (0%)

The worst 5 of 91 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	841[A]	THR	6.9
1	A	764	ALA	6.2
1	B	473	ALA	5.6
1	B	14	VAL	5.3
1	A	405	LEU	5.1

### 6.2 Non-standard residues in protein, DNA, RNA chains [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(Å <sup>2</sup> )	Q<0.9
1	LLP	A	443	24/25	0.97	0.08	25,32,41,48	0
1	LLP	B	443	24/25	0.97	0.07	23,34,43,49	0

### 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, 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(Å <sup>2</sup> )	Q<0.9
3	FMT	A	1109	3/3	0.79	0.16	70,71,84,85	0
2	GOL	A	1103	6/6	0.80	0.12	65,78,81,84	0
3	FMT	B	1105	3/3	0.82	0.15	76,77,92,94	0
2	GOL	A	1102	6/6	0.83	0.16	66,79,89,99	0
3	FMT	B	1103	3/3	0.85	0.12	68,69,81,84	0
3	FMT	A	1105	3/3	0.85	0.15	56,58,67,70	0
3	FMT	B	1107	3/3	0.85	0.13	66,67,80,80	0
2	GOL	B	1101	6/6	0.86	0.11	55,66,69,73	0
3	FMT	A	1104	3/3	0.87	0.14	70,71,84,87	0
3	FMT	B	1108	3/3	0.87	0.09	75,75,91,93	0
3	FMT	A	1108	3/3	0.88	0.12	53,57,69,71	0
2	GOL	A	1101	6/6	0.88	0.13	53,63,67,71	0
2	GOL	B	1102	6/6	0.88	0.12	59,70,79,85	0
3	FMT	B	1104	3/3	0.90	0.13	50,52,60,63	0
3	FMT	B	1106	3/3	0.90	0.16	64,64,77,77	0
4	NA	B	1110	1/1	0.90	0.11	40,40,40,40	0
3	FMT	A	1107	3/3	0.92	0.10	69,70,83,85	0
3	FMT	A	1106	3/3	0.95	0.08	37,45,48,57	0
4	NA	B	1109	1/1	0.98	0.04	24,24,24,24	0
4	NA	A	1110	1/1	0.98	0.09	17,17,17,17	0
4	NA	A	1111	1/1	0.99	0.07	38,38,38,38	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.