



wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 13, 2020 – 05:50 PM BST

PDB ID : 4LHD
Title : Crystal structure of Synechocystis sp. PCC 6803 glycine decarboxylase (P-protein), holo form with pyridoxal-5'-phosphate and glycine, closed flexible loop
Authors : Hasse, D.; Andersson, E.; Carlsson, G.; Masloboy, A.; Hagemann, M.; Bauwe, H.; Andersson, I.
Deposited on : 2013-07-01
Resolution : 1.80 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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.14.4.dev1
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) : 2.14.4.dev1

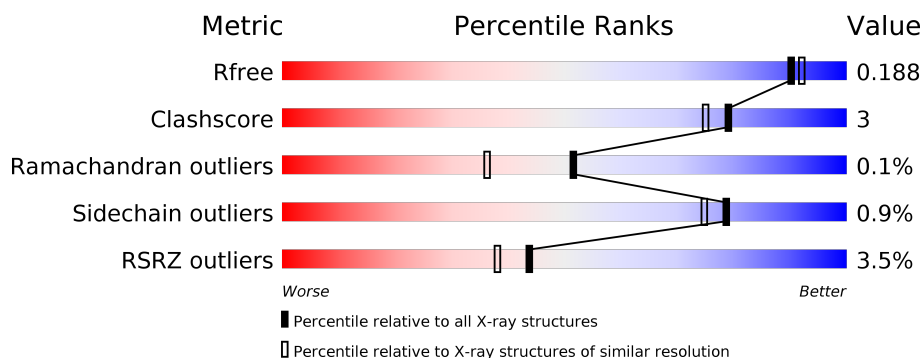
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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 ≥ 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	983	<div> <div>3%</div> <div> <div></div> <div>90%</div> <div>6%</div> <div></div> </div> </div>
1	B	983	<div> <div>4%</div> <div> <div></div> <div>90%</div> <div>5%</div> <div></div> </div> </div>

2 Entry composition [i](#)

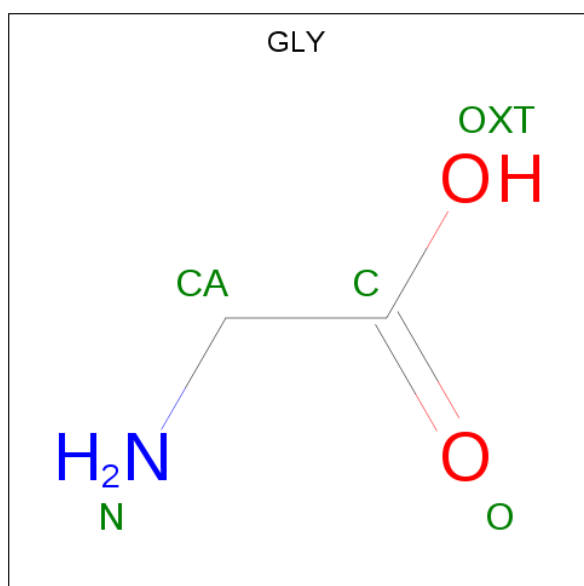
There are 6 unique types of molecules in this entry. The entry contains 16216 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Glycine dehydrogenase [decarboxylating].

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	952	Total	C	N	O	P	S	0	22	0
			7424	4724	1253	1401	1	45			
1	B	940	Total	C	N	O	P	S	0	17	0
			7298	4645	1227	1380	1	45			

- Molecule 2 is GLYCINE (three-letter code: GLY) (formula: C₂H₅NO₂).



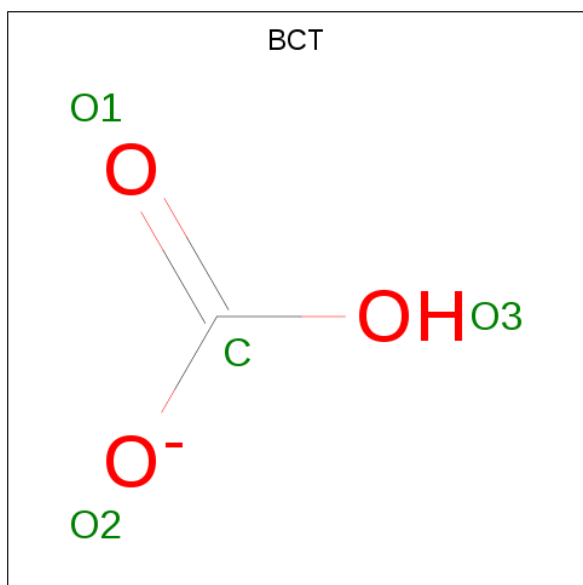
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			5	2	1	2		
2	A	1	Total	C	N	O	0	0
			5	2	1	2		
2	A	1	Total	C	N	O	0	0
			5	2	1	2		
2	A	1	Total	C	N	O	0	0
			5	2	1	2		

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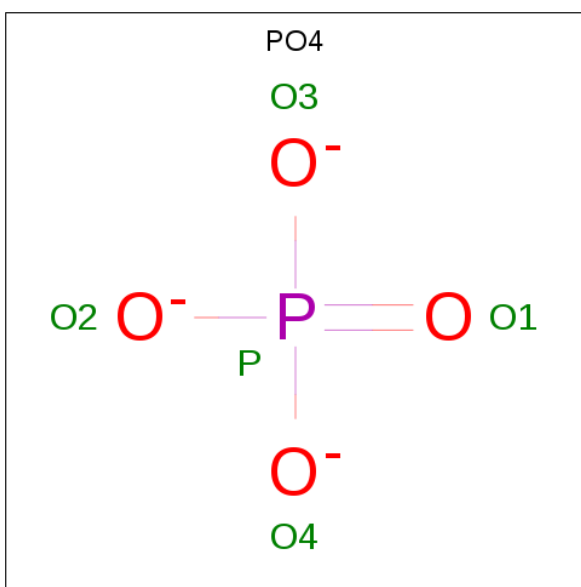
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	B	1	Total	C	N	O	0	0
			5	2	1	2		
2	B	1	Total	C	N	O	0	0
			5	2	1	2		

- Molecule 3 is BICARBONATE ION (three-letter code: BCT) (formula: CHO_3^-).



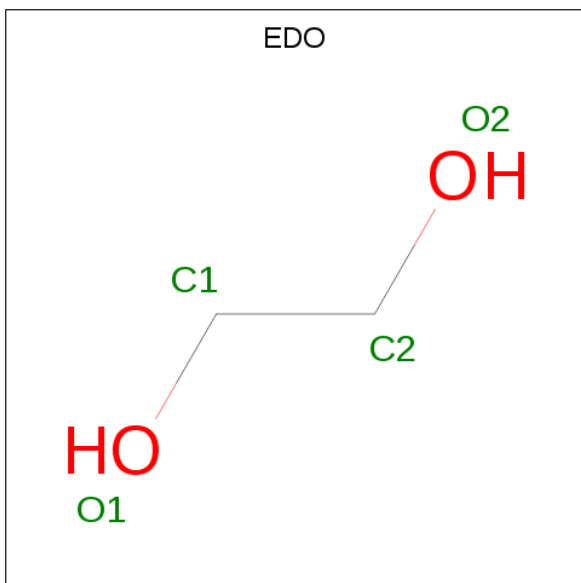
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	1	3		
3	A	1	Total	C	O	0	0
			4	1	3		
3	A	1	Total	C	O	0	0
			4	1	3		
3	B	1	Total	C	O	0	0
			4	1	3		

- Molecule 4 is PHOSPHATE ION (three-letter code: PO4) (formula: O_4P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	O	P	0	0
			5	4	1		
4	A	1	Total	O	P	0	0
			5	4	1		
4	B	1	Total	O	P	0	0
			5	4	1		
4	B	1	Total	O	P	0	0
			5	4	1		

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

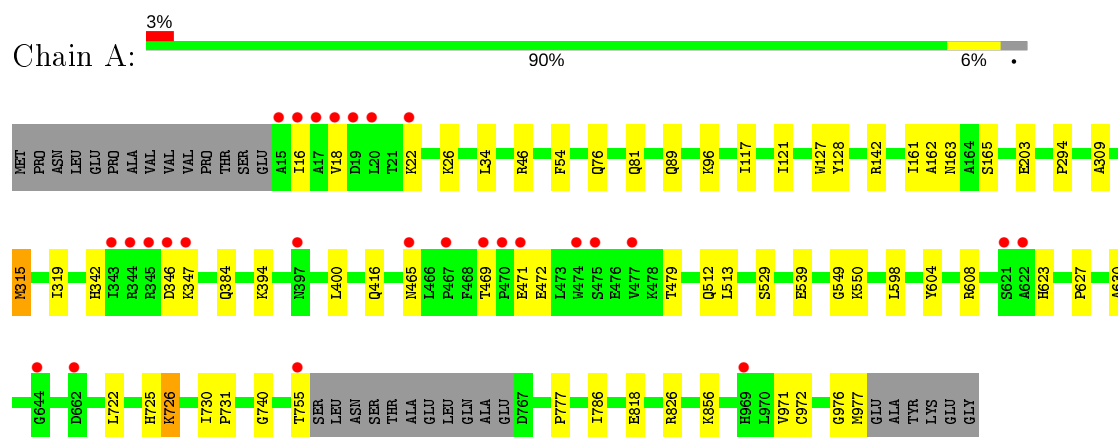
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	697	Total O 698 698	0	1
6	B	675	Total O 678 678	0	3

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: Glycine dehydrogenase [decarboxylating]



4 Data and refinement statistics

Property	Value	Source
Space group	P 3 2 1	Depositor
Cell constants a, b, c, α , β , γ	159.99Å 159.99Å 159.68Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.76 – 1.80 49.76 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.3 (49.76-1.80) 99.4 (49.76-1.80)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.24 (at 1.79Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.7.3_928)	Depositor
R, R_{free}	0.163 , 0.191 0.159 , 0.188	Depositor DCC
R_{free} test set	10959 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	16.2	Xtriage
Anisotropy	0.039	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 48.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.012 for -h,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	16216	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.32% 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: BCT, PO4, LLP, 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	0.35	0/7653	0.52	0/10407
1	B	0.36	0/7509	0.52	1/10212 (0.0%)
All	All	0.35	0/15162	0.52	1/20619 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	48	MET	CG-SD-CE	-5.79	90.94	100.20

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	7424	0	7316	42	0
1	B	7298	0	7170	41	0
2	A	20	0	8	3	0
2	B	10	0	4	1	0
3	A	12	0	0	0	0
3	B	4	0	0	0	0
4	A	10	0	0	0	0
4	B	10	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	32	0	48	7	0
5	B	20	0	30	6	0
6	A	698	0	0	8	0
6	B	678	0	0	4	0
All	All	16216	0	14576	81	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 3.

The worst 5 of 81 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:346:ASP:HB3	1:A:627:PRO:HB2	1.52	0.89
1:A:416:GLN:HB3	2:A:1003:GLY:HA2	1.63	0.81
1:A:16:ILE:HD11	1:B:454:LEU:HD21	1.67	0.77
1:B:48:MET:HG2	1:B:812:TYR:CD1	2.22	0.74
1:A:161[A]:ILE:HD13	1:A:309:ALA:HA	1.71	0.72

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	969/983 (99%)	942 (97%)	26 (3%)	1 (0%)	51	36
1	B	950/983 (97%)	925 (97%)	24 (2%)	1 (0%)	51	36
All	All	1919/1966 (98%)	1867 (97%)	50 (3%)	2 (0%)	51	36

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	165	SER
1	B	165	SER

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	794/798 (100%)	787 (99%)	7 (1%)	78	75
1	B	778/798 (98%)	771 (99%)	7 (1%)	78	75
All	All	1572/1596 (98%)	1558 (99%)	14 (1%)	78	75

5 of 14 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	977	MET
1	B	315	MET
1	B	529	SER
1	A	755	THR
1	B	478	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	512	GLN
1	B	904	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	B	726	1	23,24,25	1.71	5 (21%)	25,32,34	2.25	3 (12%)
1	LLP	A	726	1	23,24,25	1.71	5 (21%)	25,32,34	2.05	3 (12%)

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	B	726	1	-	3/16/17/19	0/1/1/1
1	LLP	A	726	1	-	2/16/17/19	0/1/1/1

The worst 5 of 10 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	726	LLP	O3-C3	-5.60	1.24	1.37
1	A	726	LLP	O3-C3	-5.39	1.24	1.37
1	B	726	LLP	C2-N1	2.47	1.38	1.33
1	A	726	LLP	CE-NZ	2.46	1.52	1.46
1	A	726	LLP	C2-N1	2.41	1.38	1.33

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	726	LLP	OP4-C5'-C5	9.39	127.25	109.35
1	A	726	LLP	OP4-C5'-C5	8.16	124.91	109.35
1	B	726	LLP	C4-C4'-NZ	-3.42	108.61	124.31
1	A	726	LLP	C4-C4'-NZ	-3.36	108.90	124.31
1	B	726	LLP	CE-NZ-C4'	-2.26	111.97	118.90

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	B	726	LLP	C4-C5-C5'-OP4
1	B	726	LLP	C6-C5-C5'-OP4
1	A	726	LLP	C4-C4'-NZ-CE
1	B	726	LLP	C4-C4'-NZ-CE
1	A	726	LLP	C3-C4-C4'-NZ

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	726	LLP	1	0
1	A	726	LLP	1	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

27 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	GLY	B	1001	-	1,4,4	0.06	0	0,4,4	0.00	-
5	EDO	B	1007	-	3,3,3	0.52	0	2,2,2	0.39	0
5	EDO	B	1009	-	3,3,3	0.44	0	2,2,2	0.46	0
5	EDO	B	1006	-	3,3,3	0.49	0	2,2,2	0.17	0
5	EDO	A	1013	-	3,3,3	0.52	0	2,2,2	0.12	0
5	EDO	A	1017	-	3,3,3	0.45	0	2,2,2	0.46	0
3	BCT	A	1006	-	0,3,3	0.00	-	0,3,3	0.00	-
2	GLY	A	1002	-	1,4,4	0.06	0	0,4,4	0.00	-
4	PO4	A	1009	-	4,4,4	0.87	0	6,6,6	0.46	0
5	EDO	A	1015	-	3,3,3	0.48	0	2,2,2	0.36	0
2	GLY	A	1003	-	1,4,4	0.07	0	0,4,4	0.00	-
2	GLY	A	1004	-	1,4,4	0.05	0	0,4,4	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	EDO	A	1014	-	3,3,3	0.48	0	2,2,2	0.26	0
4	PO4	A	1008	-	4,4,4	1.01	0	6,6,6	0.49	0
2	GLY	B	1002	-	1,4,4	0.07	0	0,4,4	0.00	-
3	BCT	B	1003	-	0,3,3	0.00	-	0,3,3	0.00	-
4	PO4	B	1004	-	4,4,4	0.87	0	6,6,6	0.41	0
5	EDO	B	1010	-	3,3,3	0.51	0	2,2,2	0.11	0
3	BCT	A	1007	-	0,3,3	0.00	-	0,3,3	0.00	-
5	EDO	A	1016	-	3,3,3	0.39	0	2,2,2	0.56	0
3	BCT	A	1005	-	0,3,3	0.00	-	0,3,3	0.00	-
5	EDO	A	1010	-	3,3,3	0.51	0	2,2,2	0.46	0
4	PO4	B	1005	-	4,4,4	0.83	0	6,6,6	0.45	0
5	EDO	A	1012	-	3,3,3	0.46	0	2,2,2	0.48	0
2	GLY	A	1001	-	1,4,4	0.07	0	0,4,4	0.00	-
5	EDO	B	1008	-	3,3,3	0.48	0	2,2,2	0.35	0
5	EDO	A	1011	-	3,3,3	0.45	0	2,2,2	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
2	GLY	B	1001	-	-	0/0/2/2	-
2	GLY	A	1003	-	-	0/0/2/2	-
2	GLY	A	1004	-	-	0/0/2/2	-
5	EDO	A	1010	-	-	0/1/1/1	-
5	EDO	A	1016	-	-	0/1/1/1	-
5	EDO	B	1007	-	-	0/1/1/1	-
5	EDO	A	1014	-	-	0/1/1/1	-
5	EDO	B	1009	-	-	1/1/1/1	-
5	EDO	A	1015	-	-	0/1/1/1	-
5	EDO	A	1013	-	-	1/1/1/1	-
5	EDO	B	1010	-	-	0/1/1/1	-
5	EDO	A	1012	-	-	0/1/1/1	-
5	EDO	A	1017	-	-	1/1/1/1	-
2	GLY	A	1001	-	-	0/0/2/2	-
5	EDO	B	1008	-	-	0/1/1/1	-
2	GLY	A	1002	-	-	0/0/2/2	-
5	EDO	B	1006	-	-	0/1/1/1	-
5	EDO	A	1011	-	-	0/1/1/1	-
2	GLY	B	1002	-	-	0/0/2/2	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	1013	EDO	O1-C1-C2-O2
5	B	1009	EDO	O1-C1-C2-O2
5	A	1017	EDO	O1-C1-C2-O2

There are no ring outliers.

11 monomers are involved in 17 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	1009	EDO	3	0
5	B	1006	EDO	2	0
5	A	1013	EDO	1	0
2	A	1002	GLY	1	0
2	A	1003	GLY	1	0
5	A	1014	EDO	1	0
2	B	1002	GLY	1	0
5	B	1010	EDO	1	0
5	A	1012	EDO	2	0
2	A	1001	GLY	1	0
5	A	1011	EDO	3	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	951/983 (96%)	-0.21	27 (2%) 53 47	7, 15, 37, 66	0
1	B	939/983 (95%)	-0.14	40 (4%) 35 29	8, 16, 40, 68	0
All	All	1890/1966 (96%)	-0.17	67 (3%) 44 38	7, 16, 39, 68	0

The worst 5 of 67 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	16	ILE	9.2
1	A	16	ILE	6.1
1	B	187	LYS	4.4
1	B	185	LYS	4.3
1	A	17	ALA	4.2

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, 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
1	LLP	B	726	24/25	0.95	0.15	11,27,36,40	11
1	LLP	A	726	24/25	0.96	0.09	8,20,32,36	0

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(Å ²)	Q<0.9
2	GLY	A	1001	5/5	0.63	0.23	33,35,49,53	0
2	GLY	B	1001	5/5	0.66	0.27	55,59,64,65	0
2	GLY	A	1002	5/5	0.70	0.22	35,36,39,43	5
5	EDO	B	1010	4/4	0.80	0.22	34,35,39,42	4
2	GLY	A	1003	5/5	0.80	0.28	35,35,41,42	5
2	GLY	B	1002	5/5	0.81	0.23	34,43,45,49	0
5	EDO	A	1013	4/4	0.81	0.20	39,43,44,44	0
3	BCT	A	1006	4/4	0.81	0.14	37,37,41,45	4
5	EDO	A	1012	4/4	0.84	0.25	12,12,17,27	4
2	GLY	A	1004	5/5	0.84	0.19	39,39,41,47	0
5	EDO	A	1016	4/4	0.85	0.15	22,25,28,30	4
3	BCT	A	1005	4/4	0.85	0.12	15,27,30,31	4
5	EDO	B	1008	4/4	0.87	0.28	42,43,47,49	0
5	EDO	A	1011	4/4	0.87	0.23	16,17,21,26	4
5	EDO	B	1009	4/4	0.88	0.25	9,13,15,15	4
3	BCT	B	1003	4/4	0.88	0.17	18,33,35,38	4
5	EDO	A	1017	4/4	0.88	0.14	20,29,32,32	4
5	EDO	A	1014	4/4	0.89	0.14	33,42,46,46	0
4	PO4	A	1009	5/5	0.91	0.12	20,24,26,32	5
5	EDO	B	1007	4/4	0.91	0.14	29,30,30,33	0
4	PO4	B	1004	5/5	0.91	0.12	28,50,52,56	0
5	EDO	A	1010	4/4	0.91	0.14	27,28,30,33	0
3	BCT	A	1007	4/4	0.93	0.13	20,26,26,34	4
5	EDO	A	1015	4/4	0.94	0.11	19,23,34,36	4
4	PO4	A	1008	5/5	0.94	0.15	12,36,38,42	5
4	PO4	B	1005	5/5	0.95	0.12	21,27,30,31	5
5	EDO	B	1006	4/4	0.96	0.11	21,23,30,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.