



wwPDB X-ray Structure Validation Summary Report ⓘ

May 17, 2020 – 06:10 am BST

PDB ID : 5DCL
Title : Structure of a lantibiotic response regulator: N terminal domain of the nisin resistance regulator NsrR
Authors : Khosa, S.; Kleinschrodt, D.; Hoepfner, A.; Smits, S.H.
Deposited on : 2015-08-24
Resolution : 1.41 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 : 2.11
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) : 2.11

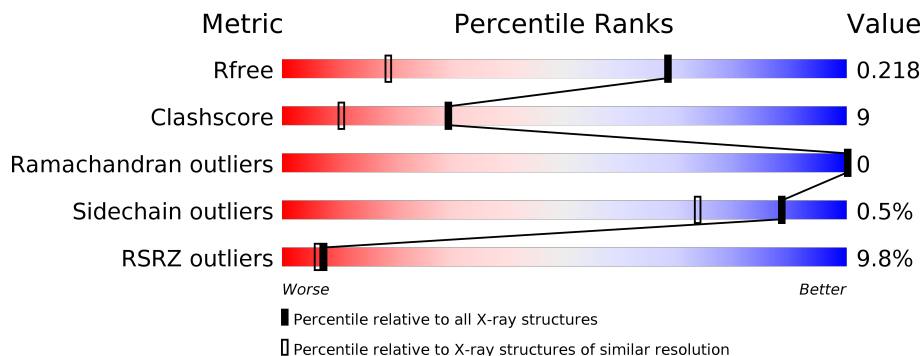
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.41 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	2579 (1.44-1.40)
Clashscore	141614	2696 (1.44-1.40)
Ramachandran outliers	138981	2632 (1.44-1.40)
Sidechain outliers	138945	2631 (1.44-1.40)
RSRZ outliers	127900	2528 (1.44-1.40)

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	243	
1	B	243	

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
2	EDO	A	307	-	-	-	X
2	EDO	B	321	-	-	-	X

2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 2155 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 PhoB family transcriptional regulator.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	117	927	605	144	172	6	0	0	0
1	B	117	934	608	144	176	6	0	0	0

There are 42 discrepancies between the modelled and reference sequences:

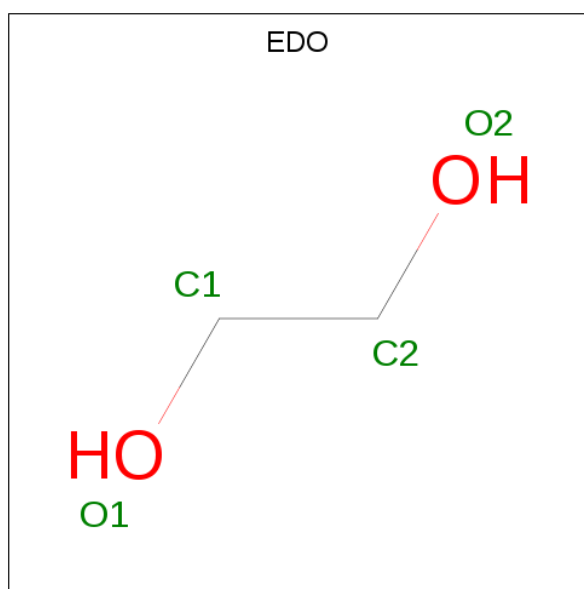
Chain	Residue	Modelled	Actual	Comment	Reference
A	223	ASP	-	expression tag	UNP X5JZS1
A	224	PRO	-	expression tag	UNP X5JZS1
A	225	ASN	-	expression tag	UNP X5JZS1
A	226	SER	-	expression tag	UNP X5JZS1
A	227	SER	-	expression tag	UNP X5JZS1
A	228	SER	-	expression tag	UNP X5JZS1
A	229	VAL	-	expression tag	UNP X5JZS1
A	230	ASP	-	expression tag	UNP X5JZS1
A	231	LYS	-	expression tag	UNP X5JZS1
A	232	LEU	-	expression tag	UNP X5JZS1
A	233	ALA	-	expression tag	UNP X5JZS1
A	234	ALA	-	expression tag	UNP X5JZS1
A	235	ALA	-	expression tag	UNP X5JZS1
A	236	LEU	-	expression tag	UNP X5JZS1
A	237	GLU	-	expression tag	UNP X5JZS1
A	238	HIS	-	expression tag	UNP X5JZS1
A	239	HIS	-	expression tag	UNP X5JZS1
A	240	HIS	-	expression tag	UNP X5JZS1
A	241	HIS	-	expression tag	UNP X5JZS1
A	242	HIS	-	expression tag	UNP X5JZS1
A	243	HIS	-	expression tag	UNP X5JZS1
B	223	ASP	-	expression tag	UNP X5JZS1
B	224	PRO	-	expression tag	UNP X5JZS1
B	225	ASN	-	expression tag	UNP X5JZS1
B	226	SER	-	expression tag	UNP X5JZS1

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Chain	Residue	Modelled	Actual	Comment	Reference
B	227	SER	-	expression tag	UNP X5JZS1
B	228	SER	-	expression tag	UNP X5JZS1
B	229	VAL	-	expression tag	UNP X5JZS1
B	230	ASP	-	expression tag	UNP X5JZS1
B	231	LYS	-	expression tag	UNP X5JZS1
B	232	LEU	-	expression tag	UNP X5JZS1
B	233	ALA	-	expression tag	UNP X5JZS1
B	234	ALA	-	expression tag	UNP X5JZS1
B	235	ALA	-	expression tag	UNP X5JZS1
B	236	LEU	-	expression tag	UNP X5JZS1
B	237	GLU	-	expression tag	UNP X5JZS1
B	238	HIS	-	expression tag	UNP X5JZS1
B	239	HIS	-	expression tag	UNP X5JZS1
B	240	HIS	-	expression tag	UNP X5JZS1
B	241	HIS	-	expression tag	UNP X5JZS1
B	242	HIS	-	expression tag	UNP X5JZS1
B	243	HIS	-	expression tag	UNP X5JZS1

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



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

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

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

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	60	Total O 60 60	0	0
3	B	78	Total O 78 78	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	57.05Å 107.13Å 39.48Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.74 – 1.41 19.74 – 1.41	Depositor EDS
% Data completeness (in resolution range)	98.7 (19.74-1.41) 98.7 (19.74-1.41)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 1.41Å)	Xtrriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.196 , 0.219 0.197 , 0.218	Depositor DCC
R_{free} test set	969 reflections (2.07%)	wwPDB-VP
Wilson B-factor (Å ²)	20.2	Xtrriage
Anisotropy	0.083	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 47.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	2155	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.69% 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: 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	0.33	0/946	0.51	0/1281
1	B	0.35	0/953	0.57	1/1290 (0.1%)
All	All	0.34	0/1899	0.54	1/2571 (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	88	MET	CG-SD-CE	-5.89	90.78	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	927	0	932	22	0
1	B	934	0	938	12	0
2	A	72	0	108	16	0
2	B	84	0	126	13	0
3	A	60	0	0	1	0
3	B	78	0	0	2	0
All	All	2155	0	2104	39	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 9.

The worst 5 of 39 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:33:SER:H	2:A:303:EDO:H21	1.44	0.83
1:A:105:PRO:HA	2:A:311:EDO:H12	1.67	0.75
2:B:314:EDO:O2	3:B:402:HOH:O	1.98	0.64
1:A:90:MET:H	2:A:318:EDO:H21	1.62	0.64
1:A:104:LYS:HZ2	2:A:313:EDO:H21	1.62	0.63

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	115/243 (47%)	114 (99%)	1 (1%)	0	100	100
1	B	115/243 (47%)	112 (97%)	3 (3%)	0	100	100
All	All	230/486 (47%)	226 (98%)	4 (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	104/223 (47%)	104 (100%)	0	100	100
1	B	106/223 (48%)	105 (99%)	1 (1%)	78	56
All	All	210/446 (47%)	209 (100%)	1 (0%)	88	73

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	5	GLN

Some 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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

39 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	EDO	B	317	-	3,3,3	0.47	0	2,2,2	0.29	0
2	EDO	B	313	-	3,3,3	0.45	0	2,2,2	0.44	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	EDO	A	310	-	3,3,3	0.45	0	2,2,2	0.48	0
2	EDO	B	320	-	3,3,3	0.51	0	2,2,2	0.39	0
2	EDO	B	301	-	3,3,3	0.46	0	2,2,2	0.35	0
2	EDO	A	307	-	3,3,3	0.50	0	2,2,2	0.16	0
2	EDO	B	321	-	3,3,3	0.46	0	2,2,2	0.35	0
2	EDO	B	316	-	3,3,3	0.49	0	2,2,2	0.36	0
2	EDO	A	311	-	3,3,3	0.44	0	2,2,2	0.32	0
2	EDO	B	303	-	3,3,3	0.51	0	2,2,2	0.32	0
2	EDO	A	312	-	3,3,3	0.48	0	2,2,2	0.26	0
2	EDO	A	305	-	3,3,3	0.42	0	2,2,2	0.29	0
2	EDO	A	317	-	3,3,3	0.44	0	2,2,2	0.50	0
2	EDO	A	309	-	3,3,3	0.44	0	2,2,2	0.33	0
2	EDO	B	318	-	3,3,3	0.47	0	2,2,2	0.32	0
2	EDO	A	303	-	3,3,3	0.47	0	2,2,2	0.37	0
2	EDO	B	302	-	3,3,3	0.42	0	2,2,2	0.40	0
2	EDO	B	306	-	3,3,3	0.44	0	2,2,2	0.39	0
2	EDO	A	315	-	3,3,3	0.45	0	2,2,2	0.40	0
2	EDO	B	314	-	3,3,3	0.46	0	2,2,2	0.49	0
2	EDO	B	304	-	3,3,3	0.51	0	2,2,2	0.33	0
2	EDO	B	308	-	3,3,3	0.40	0	2,2,2	0.39	0
2	EDO	B	312	-	3,3,3	0.45	0	2,2,2	0.30	0
2	EDO	A	314	-	3,3,3	0.47	0	2,2,2	0.30	0
2	EDO	B	305	-	3,3,3	0.47	0	2,2,2	0.32	0
2	EDO	A	302	-	3,3,3	0.49	0	2,2,2	0.24	0
2	EDO	B	310	-	3,3,3	0.51	0	2,2,2	0.26	0
2	EDO	A	301	-	3,3,3	0.46	0	2,2,2	0.36	0
2	EDO	A	313	-	3,3,3	0.48	0	2,2,2	0.25	0
2	EDO	A	316	-	3,3,3	0.47	0	2,2,2	0.30	0
2	EDO	A	318	-	3,3,3	0.42	0	2,2,2	0.43	0
2	EDO	A	304	-	3,3,3	0.46	0	2,2,2	0.29	0
2	EDO	B	309	-	3,3,3	0.49	0	2,2,2	0.19	0
2	EDO	B	319	-	3,3,3	0.54	0	2,2,2	0.18	0
2	EDO	B	311	-	3,3,3	0.44	0	2,2,2	0.38	0
2	EDO	A	308	-	3,3,3	0.45	0	2,2,2	0.38	0
2	EDO	B	315	-	3,3,3	0.50	0	2,2,2	0.15	0
2	EDO	A	306	-	3,3,3	0.43	0	2,2,2	0.48	0
2	EDO	B	307	-	3,3,3	0.51	0	2,2,2	0.15	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	EDO	B	317	-	-	1/1/1/1	-
2	EDO	B	313	-	-	1/1/1/1	-
2	EDO	A	310	-	-	0/1/1/1	-
2	EDO	B	320	-	-	1/1/1/1	-
2	EDO	B	301	-	-	1/1/1/1	-
2	EDO	A	307	-	-	1/1/1/1	-
2	EDO	B	321	-	-	0/1/1/1	-
2	EDO	B	316	-	-	1/1/1/1	-
2	EDO	A	311	-	-	1/1/1/1	-
2	EDO	B	303	-	-	1/1/1/1	-
2	EDO	A	312	-	-	1/1/1/1	-
2	EDO	A	305	-	-	0/1/1/1	-
2	EDO	A	317	-	-	0/1/1/1	-
2	EDO	A	309	-	-	0/1/1/1	-
2	EDO	B	318	-	-	1/1/1/1	-
2	EDO	A	303	-	-	0/1/1/1	-
2	EDO	B	302	-	-	0/1/1/1	-
2	EDO	B	306	-	-	1/1/1/1	-
2	EDO	A	315	-	-	0/1/1/1	-
2	EDO	B	314	-	-	1/1/1/1	-
2	EDO	B	304	-	-	0/1/1/1	-
2	EDO	B	308	-	-	1/1/1/1	-
2	EDO	B	312	-	-	0/1/1/1	-
2	EDO	A	314	-	-	0/1/1/1	-
2	EDO	B	305	-	-	1/1/1/1	-
2	EDO	A	302	-	-	0/1/1/1	-
2	EDO	B	310	-	-	0/1/1/1	-
2	EDO	A	301	-	-	0/1/1/1	-
2	EDO	A	313	-	-	1/1/1/1	-
2	EDO	A	316	-	-	0/1/1/1	-
2	EDO	A	318	-	-	1/1/1/1	-
2	EDO	A	304	-	-	0/1/1/1	-
2	EDO	B	309	-	-	0/1/1/1	-
2	EDO	B	319	-	-	1/1/1/1	-
2	EDO	B	311	-	-	0/1/1/1	-
2	EDO	A	308	-	-	0/1/1/1	-
2	EDO	B	315	-	-	1/1/1/1	-
2	EDO	A	306	-	-	0/1/1/1	-
2	EDO	B	307	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 18 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	320	EDO	O1-C1-C2-O2
2	B	316	EDO	O1-C1-C2-O2
2	A	318	EDO	O1-C1-C2-O2
2	B	319	EDO	O1-C1-C2-O2
2	B	315	EDO	O1-C1-C2-O2

There are no ring outliers.

18 monomers are involved in 29 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	317	EDO	2	0
2	A	307	EDO	2	0
2	A	311	EDO	2	0
2	B	303	EDO	1	0
2	A	312	EDO	2	0
2	A	317	EDO	2	0
2	A	309	EDO	2	0
2	A	303	EDO	3	0
2	B	302	EDO	1	0
2	B	314	EDO	3	0
2	B	304	EDO	1	0
2	B	308	EDO	2	0
2	A	313	EDO	3	0
2	A	318	EDO	2	0
2	B	319	EDO	1	0
2	A	308	EDO	1	0
2	B	315	EDO	1	0
2	B	307	EDO	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	117/243 (48%)	0.57	14 (11%) 4 3	15, 27, 44, 71	0
1	B	117/243 (48%)	0.35	9 (7%) 13 12	14, 21, 37, 50	0
All	All	234/486 (48%)	0.46	23 (9%) 7 6	14, 24, 40, 71	0

The worst 5 of 23 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	84	SER	4.7
1	A	85	ASN	4.3
1	B	27	ALA	4.1
1	B	4	GLU	3.8
1	A	120	ARG	3.6

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 carbohydrates 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	EDO	B	321	4/4	0.22	0.74	113,126,132,142	0
2	EDO	A	304	4/4	0.38	0.25	44,48,49,49	0
2	EDO	B	316	4/4	0.59	0.26	35,36,36,39	0
2	EDO	A	318	4/4	0.63	0.30	39,46,47,50	0
2	EDO	A	309	4/4	0.66	0.28	44,44,44,51	0
2	EDO	A	317	4/4	0.71	0.21	36,37,44,45	0
2	EDO	A	306	4/4	0.71	0.31	31,35,36,37	0
2	EDO	B	319	4/4	0.72	0.38	35,37,38,38	0
2	EDO	A	307	4/4	0.73	0.47	33,34,41,47	0
2	EDO	B	309	4/4	0.74	0.20	30,32,36,46	0
2	EDO	B	320	4/4	0.74	0.21	30,37,37,39	0
2	EDO	B	313	4/4	0.74	0.15	38,40,41,47	0
2	EDO	A	313	4/4	0.75	0.32	41,44,53,58	0
2	EDO	B	308	4/4	0.75	0.23	32,33,36,41	0
2	EDO	B	315	4/4	0.77	0.39	34,35,35,46	0
2	EDO	A	314	4/4	0.78	0.19	40,42,43,47	0
2	EDO	B	314	4/4	0.79	0.25	37,42,45,45	0
2	EDO	A	303	4/4	0.79	0.24	27,38,38,41	0
2	EDO	B	306	4/4	0.81	0.29	40,41,44,50	0
2	EDO	A	316	4/4	0.81	0.26	40,41,41,42	0
2	EDO	B	317	4/4	0.81	0.36	37,42,42,46	0
2	EDO	B	310	4/4	0.81	0.16	28,28,32,34	0
2	EDO	A	308	4/4	0.82	0.30	38,40,43,43	0
2	EDO	B	318	4/4	0.83	0.19	36,38,39,44	0
2	EDO	A	315	4/4	0.83	0.30	43,46,47,51	0
2	EDO	A	311	4/4	0.83	0.18	42,42,49,50	0
2	EDO	B	312	4/4	0.85	0.25	32,34,36,38	0
2	EDO	A	310	4/4	0.86	0.19	28,28,37,43	0
2	EDO	B	304	4/4	0.86	0.25	33,37,37,38	0
2	EDO	B	303	4/4	0.86	0.08	26,28,31,37	0
2	EDO	B	302	4/4	0.87	0.19	28,36,38,40	0
2	EDO	B	301	4/4	0.87	0.21	37,38,39,42	0
2	EDO	A	301	4/4	0.88	0.19	38,41,41,43	0
2	EDO	B	307	4/4	0.88	0.14	22,29,31,37	0
2	EDO	B	305	4/4	0.89	0.20	29,33,34,41	0
2	EDO	A	312	4/4	0.90	0.31	31,35,36,40	0
2	EDO	A	302	4/4	0.90	0.12	23,29,30,36	0
2	EDO	B	311	4/4	0.92	0.19	28,30,36,38	0
2	EDO	A	305	4/4	0.94	0.07	26,26,29,29	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.