



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 7, 2026 – 02:38 AM UTC

PDB ID : 5NJC / pdb_00005njc
Title : E. coli Microcin-processing metalloprotease TldD/E (TldD E263A mutant) with hexapeptide bound
Authors : Ghilarov, D.; Serebryakova, M.; Stevenson, C.E.M.; Hearnshaw, S.J.; Volkov, D.; Maxwell, A.; Lawson, D.M.; Severinov, K.
Deposited on : 2017-03-28
Resolution : 1.35 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

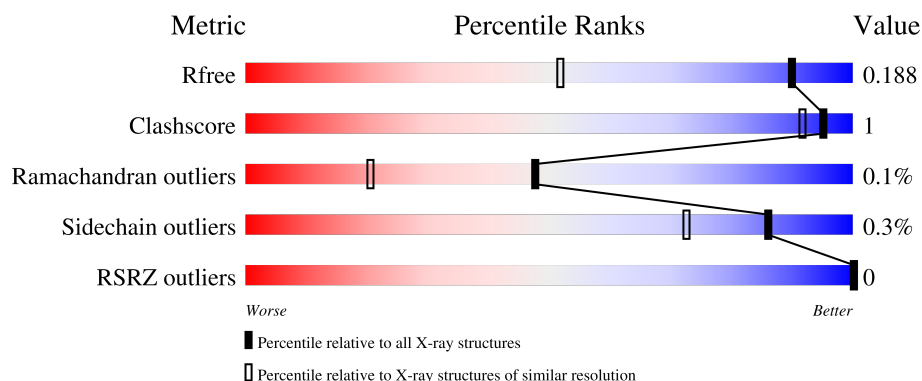
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

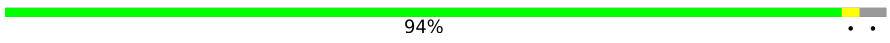
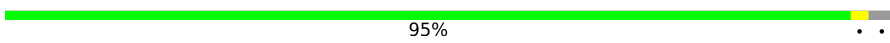
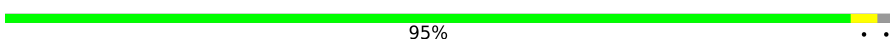
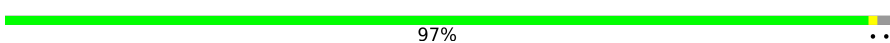
The reported resolution of this entry is 1.35 Å.

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	1216 (1.36-1.36)
Clashscore	190562	1232 (1.36-1.36)
Ramachandran outliers	187476	1220 (1.36-1.36)
Sidechain outliers	187428	1220 (1.36-1.36)
RSRZ outliers	180081	1214 (1.36-1.36)

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 ≥ 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	495	 94%
1	C	495	 95%
2	B	450	 95%
2	D	450	 97%
3	E	6	 83% 17%

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Mol	Chain	Length	Quality of chain
3	F	6	 67% 33%

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 17078 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 Metalloprotease TldD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	479	Total	C	N	O	S	0	28	0
			3803	2366	664	755	18			
1	C	480	Total	C	N	O	S	0	20	0
			3751	2333	660	741	17			

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-13	MET	-	initiating methionine	UNP P0AGG8
A	-12	GLY	-	expression tag	UNP P0AGG8
A	-11	SER	-	expression tag	UNP P0AGG8
A	-10	SER	-	expression tag	UNP P0AGG8
A	-9	HIS	-	expression tag	UNP P0AGG8
A	-8	HIS	-	expression tag	UNP P0AGG8
A	-7	HIS	-	expression tag	UNP P0AGG8
A	-6	HIS	-	expression tag	UNP P0AGG8
A	-5	HIS	-	expression tag	UNP P0AGG8
A	-4	HIS	-	expression tag	UNP P0AGG8
A	-3	SER	-	expression tag	UNP P0AGG8
A	-2	GLN	-	expression tag	UNP P0AGG8
A	-1	ASP	-	expression tag	UNP P0AGG8
A	0	PRO	-	expression tag	UNP P0AGG8
A	263	ALA	GLU	engineered mutation	UNP P0AGG8
A	401	ASP	GLY	engineered mutation	UNP P0AGG8
C	-13	MET	-	initiating methionine	UNP P0AGG8
C	-12	GLY	-	expression tag	UNP P0AGG8
C	-11	SER	-	expression tag	UNP P0AGG8
C	-10	SER	-	expression tag	UNP P0AGG8
C	-9	HIS	-	expression tag	UNP P0AGG8
C	-8	HIS	-	expression tag	UNP P0AGG8
C	-7	HIS	-	expression tag	UNP P0AGG8
C	-6	HIS	-	expression tag	UNP P0AGG8
C	-5	HIS	-	expression tag	UNP P0AGG8

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-4	HIS	-	expression tag	UNP P0AGG8
C	-3	SER	-	expression tag	UNP P0AGG8
C	-2	GLN	-	expression tag	UNP P0AGG8
C	-1	ASP	-	expression tag	UNP P0AGG8
C	0	PRO	-	expression tag	UNP P0AGG8
C	263	ALA	GLU	engineered mutation	UNP P0AGG8
C	401	ASP	GLY	engineered mutation	UNP P0AGG8

- Molecule 2 is a protein called Metalloprotease PmbA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	443	Total	C	N	O	S	0	28	0
			3554	2206	627	706	15			
2	D	442	Total	C	N	O	S	0	33	0
			3597	2231	630	719	17			

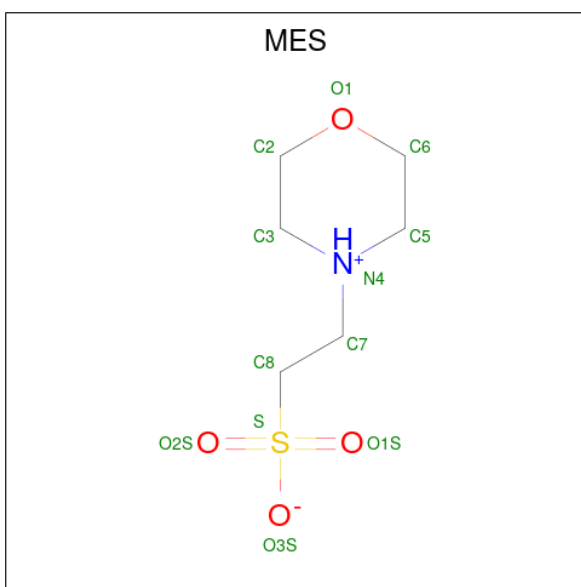
- Molecule 3 is a protein called VAL-LEU-GLU-ASP-ARG-ILE.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	E	6	Total	C	N	O	0	0	0
			43	28	6	9			
3	F	6	Total	C	N	O	0	0	0
			49	31	9	9			

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

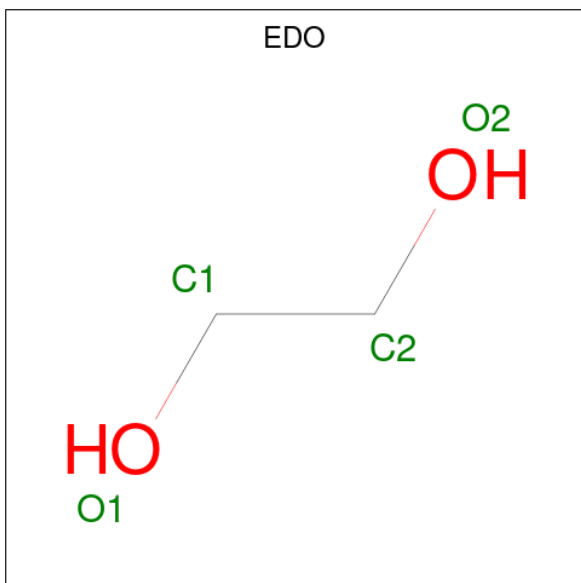
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Zn	0	0
			1	1		
4	C	1	Total	Zn	0	0
			1	1		

- Molecule 5 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: MES) (formula: C₆H₁₃NO₄S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	A	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
5	B	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
5	C	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
5	D	1	Total	C	N	O	S	0	0
			12	6	1	4	1		

- Molecule 6 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total C O 4 2 2	0	0
6	B	1	Total C O 4 2 2	0	0
6	B	1	Total C O 8 4 4	0	1
6	B	1	Total C O 4 2 2	0	0
6	B	1	Total C O 4 2 2	0	0
6	C	1	Total C O 4 2 2	0	0
6	D	1	Total C O 4 2 2	0	0
6	D	1	Total C O 4 2 2	0	0
6	D	1	Total C O 8 4 4	0	1
6	D	1	Total C O 4 2 2	0	0

- Molecule 7 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total Na 1 1	0	0
7	B	1	Total Na 1 1	0	0
7	C	1	Total Na 1 1	0	0
7	D	1	Total Na 1 1	0	0

- Molecule 8 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	526	Total O 546 546	0	20
8	B	521	Total O 543 543	0	22
8	C	478	Total O 505 505	0	27
8	D	557	Total O 581 581	0	24

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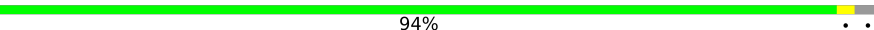
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	E	2	Total	O	0	0
			2	2		
8	F	2	Total	O	0	0
			2	2		

3 Residue-property plots [i](#)

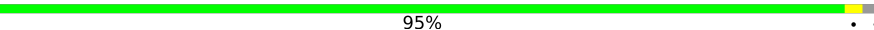
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

Chain A:  94%

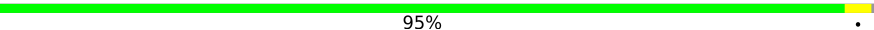


- Molecule 1: Metalloprotease TldD

Chain C:  95%

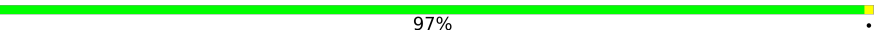


- Molecule 2: Metalloprotease PmbA

Chain B:  95%



- Molecule 2: Metalloprotease PmbA

Chain D:  97%



- Molecule 3: VAL-LEU-GLU-ASP-ARG-ILE

Chain E:  83% 17%



- Molecule 3: VAL-LEU-GLU-ASP-ARG-ILE

Chain F:  67% 33%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	65.29Å 175.44Å 84.33Å 90.00° 90.01° 90.00°	Depositor
Resolution (Å)	65.29 – 1.35 65.29 – 1.35	Depositor EDS
% Data completeness (in resolution range)	97.6 (65.29-1.35) 97.6 (65.29-1.35)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.33 (at 1.35Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.145 , 0.183 0.153 , 0.188	Depositor DCC
R_{free} test set	20115 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å ²)	14.2	Xtriage
Anisotropy	0.351	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 30.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	0.478 for h,-k,-l	Xtriage
Reported twinning fraction	0.525 for H, K, L 0.475 for -h,-k,l	Depositor
Outliers	0 of 403734 reflections	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	17078	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.51% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: EDO, MES, NA, ZN

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	0.71	0/3856	0.82	0/5213
1	C	0.72	0/3804	0.81	0/5144
2	B	0.74	0/3614	0.80	1/4888 (0.0%)
2	D	0.75	0/3661	0.78	0/4950
3	E	0.56	0/42	1.06	0/54
3	F	0.67	0/48	0.76	0/62
All	All	0.73	0/15025	0.81	1/20311 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	160	GLY	N-CA-C	5.30	118.74	112.33

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	3803	0	3752	14	0
1	C	3751	0	3700	10	0
2	B	3554	0	3475	10	0
2	D	3597	0	3506	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	E	43	0	37	1	0
3	F	49	0	51	3	0
4	A	1	0	0	0	0
4	C	1	0	0	0	0
5	A	12	0	13	0	0
5	B	12	0	13	0	0
5	C	12	0	13	0	0
5	D	12	0	13	0	0
6	A	4	0	6	0	0
6	B	20	0	30	0	0
6	C	4	0	6	0	0
6	D	20	0	30	0	0
7	A	1	0	0	0	0
7	B	1	0	0	0	0
7	C	1	0	0	0	0
7	D	1	0	0	0	0
8	A	546	0	0	1	0
8	B	543	0	0	4	0
8	C	505	0	0	2	0
8	D	581	0	0	1	0
8	E	2	0	0	0	0
8	F	2	0	0	0	0
All	All	17078	0	14645	37	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 1.

The worst 5 of 37 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:101[A]:ARG:HH11	1:A:101[A]:ARG:HG2	1.11	1.09
2:B:115[A]:GLU:OE2	8:B:802[A]:HOH:O	1.74	1.04
1:A:101[A]:ARG:HG2	1:A:101[A]:ARG:NH1	1.83	0.83
2:B:314:GLU:OE1	2:B:316[B]:ARG:NH2	2.12	0.82
1:C:202[B]:SER:OG	8:C:1000[B]:HOH:O	1.95	0.81

There are no symmetry-related clashes.

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	505/495 (102%)	490 (97%)	15 (3%)	0	100	100
1	C	499/495 (101%)	485 (97%)	14 (3%)	0	100	100
2	B	469/450 (104%)	462 (98%)	5 (1%)	2 (0%)	30	11
2	D	475/450 (106%)	468 (98%)	7 (2%)	0	100	100
3	E	4/6 (67%)	4 (100%)	0	0	100	100
3	F	4/6 (67%)	4 (100%)	0	0	100	100
All	All	1956/1902 (103%)	1913 (98%)	41 (2%)	2 (0%)	48	20

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	131[A]	GLU
2	B	131[B]	GLU

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	405/395 (102%)	403 (100%)	2 (0%)	81	64
1	C	396/395 (100%)	396 (100%)	0	100	100
2	B	376/360 (104%)	371 (99%)	5 (1%)	61	30
2	D	383/360 (106%)	382 (100%)	1 (0%)	86	72
3	E	3/6 (50%)	3 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	F	5/6 (83%)	5 (100%)	0	100	100
All	All	1568/1522 (103%)	1560 (100%)	8 (0%)	86	64

5 of 8 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	D	365	LYS
2	B	274	THR
2	B	115[A]	GLU
2	B	11[B]	VAL
2	B	115[B]	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 9 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	109	GLN
2	D	57	ASN
2	B	57	ASN
2	B	94	GLN
2	B	356	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](#)

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 22 ligands modelled in this entry, 6 are monoatomic - leaving 16 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
6	EDO	B	705	-	3,3,3	0.55	0	2,2,2	0.05	0
6	EDO	B	704	-	3,3,3	0.42	0	2,2,2	0.37	0
6	EDO	D	703	-	3,3,3	0.50	0	2,2,2	0.30	0
6	EDO	A	503	-	3,3,3	0.71	0	2,2,2	0.20	0
6	EDO	D	702	-	3,3,3	0.59	0	2,2,2	0.16	0
6	EDO	B	703[B]	-	3,3,3	0.48	0	2,2,2	0.34	0
5	MES	C	502	-	12,12,12	0.75	0	15,16,16	0.49	0
6	EDO	B	703[A]	-	3,3,3	0.37	0	2,2,2	0.57	0
6	EDO	C	503	-	3,3,3	0.60	0	2,2,2	0.46	0
6	EDO	D	704[B]	-	3,3,3	0.35	0	2,2,2	0.46	0
6	EDO	D	704[A]	-	3,3,3	0.44	0	2,2,2	0.48	0
6	EDO	D	705	-	3,3,3	0.48	0	2,2,2	0.47	0
5	MES	D	701	-	12,12,12	0.66	0	15,16,16	0.33	0
6	EDO	B	702	-	3,3,3	0.52	0	2,2,2	0.21	0
5	MES	A	502	-	12,12,12	0.74	0	15,16,16	0.55	0
5	MES	B	701	-	12,12,12	0.69	0	15,16,16	0.54	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
6	EDO	B	705	-	-	1/1/1/1	-
6	EDO	B	704	-	-	0/1/1/1	-
6	EDO	D	703	-	-	0/1/1/1	-
6	EDO	A	503	-	-	0/1/1/1	-
6	EDO	D	702	-	-	0/1/1/1	-
6	EDO	B	703[B]	-	-	1/1/1/1	-
5	MES	C	502	-	-	0/6/14/14	0/1/1/1
6	EDO	B	703[A]	-	-	1/1/1/1	-
6	EDO	C	503	-	-	0/1/1/1	-
6	EDO	D	704[B]	-	-	1/1/1/1	-
6	EDO	D	704[A]	-	-	1/1/1/1	-
6	EDO	D	705	-	-	1/1/1/1	-
5	MES	D	701	-	-	0/6/14/14	0/1/1/1
6	EDO	B	702	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	MES	A	502	-	-	1/6/14/14	0/1/1/1
5	MES	B	701	-	-	0/6/14/14	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 7 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	502	MES	C8-C7-N4-C3
6	B	705	EDO	O1-C1-C2-O2
6	B	703[B]	EDO	O1-C1-C2-O2
6	D	705	EDO	O1-C1-C2-O2
6	B	703[A]	EDO	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

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	479/495 (96%)	-0.88	0 100 100	6, 17, 24, 29	28 (5%)
1	C	480/495 (96%)	-0.83	0 100 100	6, 18, 25, 32	20 (4%)
2	B	443/450 (98%)	-0.97	0 100 100	6, 15, 22, 33	28 (6%)
2	D	442/450 (98%)	-1.00	0 100 100	5, 14, 22, 32	33 (7%)
3	E	6/6 (100%)	-0.37	0 100 100	20, 25, 30, 32	0
3	F	6/6 (100%)	-0.47	0 100 100	18, 22, 30, 30	0
All	All	1856/1902 (97%)	-0.91	0 100 100	5, 16, 24, 33	109 (5%)

There are no RSRZ outliers to report.

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 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, 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
7	NA	A	504	1/1	0.93	0.11	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	EDO	B	704	4/4	0.96	0.06	17,24,25,29	0
6	EDO	B	703[B]	4/4	0.97	0.06	13,16,21,27	4
5	MES	D	701	12/12	0.97	0.06	11,13,17,17	12
6	EDO	D	703	4/4	0.97	0.06	24,25,27,35	0
6	EDO	B	703[A]	4/4	0.97	0.06	12,16,21,21	4
5	MES	B	701	12/12	0.98	0.05	8,13,17,22	12
6	EDO	A	503	4/4	0.98	0.05	19,19,22,29	0
6	EDO	B	705	4/4	0.98	0.05	24,26,27,28	0
6	EDO	C	503	4/4	0.98	0.04	21,21,26,27	0
6	EDO	B	702	4/4	0.98	0.05	20,20,22,25	0
6	EDO	D	704[A]	4/4	0.98	0.05	13,16,17,28	4
6	EDO	D	704[B]	4/4	0.98	0.05	13,16,20,28	4
6	EDO	D	705	4/4	0.98	0.05	23,25,28,29	0
5	MES	C	502	12/12	0.98	0.06	19,23,26,29	0
6	EDO	D	702	4/4	0.99	0.05	20,22,23,25	0
5	MES	A	502	12/12	0.99	0.04	16,17,19,20	0
7	NA	B	706	1/1	0.99	0.07	26,26,26,26	0
7	NA	C	504	1/1	0.99	0.07	23,23,23,23	0
4	ZN	C	501	1/1	1.00	0.03	19,19,19,19	0
4	ZN	A	501	1/1	1.00	0.02	18,18,18,18	0
7	NA	D	706	1/1	1.00	0.06	26,26,26,26	0

6.5 Other polymers

There are no such residues in this entry.