



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 03:15 PM UTC

PDB ID : 1EP5 / pdb_00001ep5
Title : CRYSTAL STRUCTURE OF THE CONSERVED CORE DOMAIN OF VENEZUALAN EQUINE ENCEPHALITIS CAPSID PROTEIN
Authors : Watowich, S.J.
Deposited on : 2000-03-27
Resolution : 2.30 Å(reported)

This is a Full wwPDB X-ray Structure Validation 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

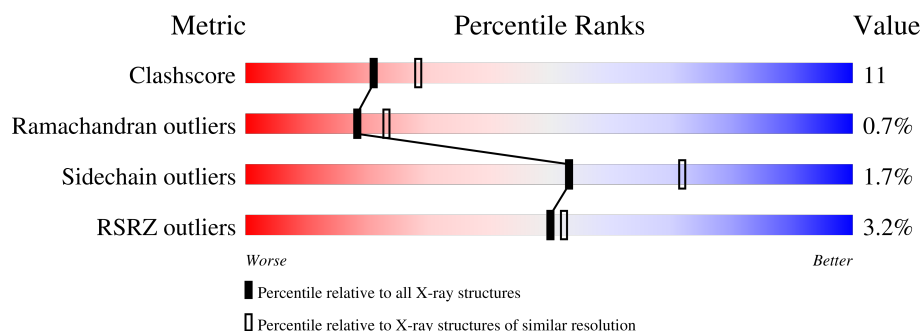
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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))
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	157	3% 80%19%.
1	B	157	2% 78%18%. .
1	C	157	5% 73%22%. .

2 Entry composition [i](#)

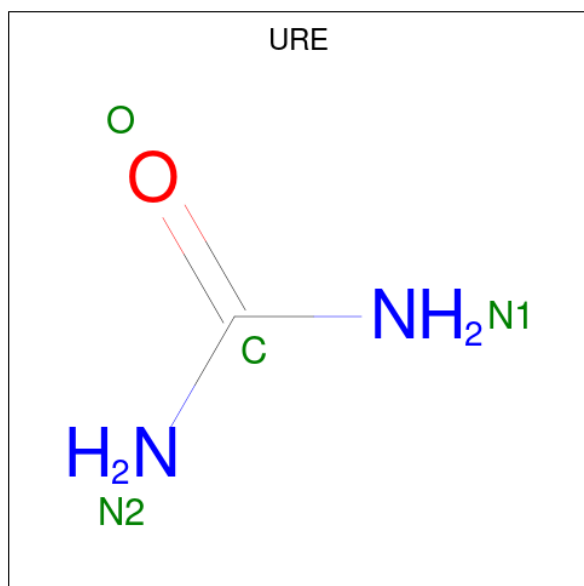
There are 4 unique types of molecules in this entry. The entry contains 3766 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 CAPSID PROTEIN C.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	157	Total	C	N	O	S	0	0	0
			1197	756	207	227	7			
1	A	156	Total	C	N	O	S	0	0	0
			1206	763	210	226	7			
1	C	152	Total	C	N	O	S	0	0	0
			1146	725	198	217	6			

- Molecule 2 is UREA (CCD ID: URE) (formula: CH₄N₂O).



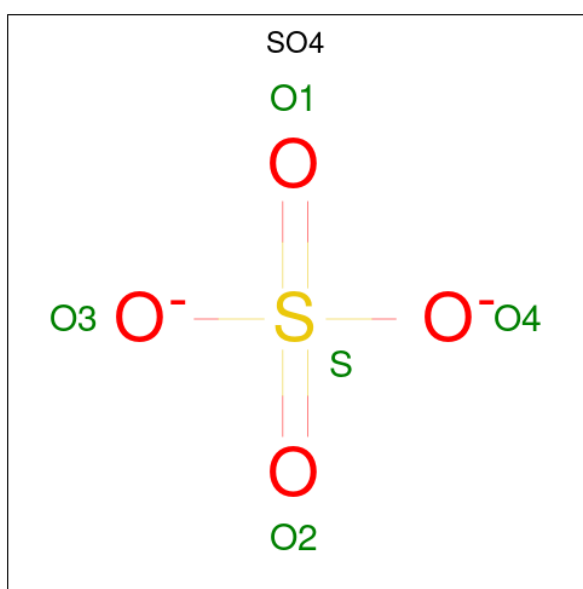
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	B	1	Total	C	N	O	0	0
			4	1	2	1		
2	B	1	Total	C	N	O	0	0
			4	1	2	1		
2	B	1	Total	C	N	O	0	0
			4	1	2	1		

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

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	63	Total	O	0	0
			63	63		
4	A	85	Total	O	0	0
			85	85		
4	C	31	Total	O	0	0
			31	31		

- Molecule 1: CAPSID PROTEIN C



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	69.33Å 75.18Å 94.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 2.30 30.00 – 2.30	Depositor EDS
% Data completeness (in resolution range)	96.6 (30.00-2.30) 96.6 (30.00-2.30)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	6.10 (at 2.29Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.228 , 0.263 0.241 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	31.4	Xtriage
Anisotropy	0.205	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 36.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3766	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 16.16% 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: SO4, URE

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	0.62	1/1234 (0.1%)	0.95	5/1669 (0.3%)
1	B	0.47	0/1225	0.92	4/1663 (0.2%)
1	C	0.42	0/1174	0.84	2/1596 (0.1%)
All	All	0.51	1/3633 (0.0%)	0.91	11/4928 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	147	LEU	C-N	-13.44	1.14	1.33

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	190	LYS	N-CA-C	-7.08	100.04	110.52
1	C	126	LYS	N-CA-C	-6.45	103.94	113.61
1	A	140	ALA	N-CA-C	-5.60	101.00	109.85
1	A	147	LEU	O-C-N	-5.52	116.76	123.16
1	A	203	HIS	N-CA-C	5.47	117.95	111.33
1	A	255	VAL	N-CA-C	5.38	116.78	108.44
1	A	176	GLU	N-CA-C	-5.27	101.11	109.59
1	B	254	SER	N-CA-C	-5.27	101.11	109.96
1	B	177	TYR	N-CA-C	5.18	116.68	108.96
1	C	241	VAL	N-CA-C	5.09	115.61	108.89
1	B	185	ARG	N-CA-C	5.05	117.45	111.33

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	1206	0	1169	18	0
1	B	1197	0	1135	30	0
1	C	1146	0	1077	30	0
2	A	8	0	8	0	0
2	B	20	0	20	0	0
3	A	10	0	0	0	0
4	A	85	0	0	0	0
4	B	63	0	0	1	0
4	C	31	0	0	1	0
All	All	3766	0	3409	77	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 11.

All (77) 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:B:259:ASN:HD21	1:B:263:VAL:HB	1.47	0.78
1:B:260:GLU:H	1:B:260:GLU:CD	1.89	0.76
1:C:259:ASN:HD21	1:C:263:VAL:HB	1.53	0.72
1:C:210:GLU:HG2	1:C:211:ASN:OD1	1.90	0.72
1:B:142:VAL:HG12	1:B:147:LEU:HD23	1.71	0.71
1:A:254:SER:HB2	1:A:272:CYS:SG	2.34	0.68
1:C:242:LEU:HD12	1:C:266:LYS:HZ2	1.60	0.67
1:B:259:ASN:ND2	1:B:263:VAL:HB	2.08	0.67
1:C:174:ASP:OD2	1:C:242:LEU:HD22	1.99	0.63
1:C:132:LEU:CD1	1:C:133:GLU:HG2	2.30	0.62
1:B:119:VAL:HG12	1:B:120:MET:N	2.18	0.59
1:C:132:LEU:O	1:C:134:GLY:N	2.36	0.58
1:B:218:LYS:HD2	1:B:248:GLY:O	2.03	0.58
1:A:175:LEU:HD11	1:A:256:VAL:HG21	1.85	0.58
1:C:256:VAL:CG1	1:C:264:THR:HG23	2.34	0.57
1:B:197:GLN:HE21	1:B:211:ASN:H	1.55	0.55
1:C:259:ASN:ND2	1:C:263:VAL:HB	2.22	0.55
1:A:180:VAL:HG23	1:A:181:PRO:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:266:LYS:HE2	1:A:268:THR:OG1	2.07	0.54
1:C:183:ASN:O	1:C:184:MET:HG3	2.06	0.54
1:B:254:SER:HB2	1:B:272:CYS:SG	2.48	0.54
1:A:180:VAL:CG2	1:A:181:PRO:HD2	2.38	0.53
1:C:245:VAL:HB	1:C:272:CYS:HA	1.91	0.52
1:B:197:GLN:NE2	1:B:211:ASN:H	2.08	0.52
1:A:197:GLN:HE21	1:A:211:ASN:H	1.58	0.52
1:C:126:LYS:HB2	1:C:189:PHE:CE2	2.45	0.52
1:B:161:VAL:HG23	4:B:977:HOH:O	2.09	0.51
1:C:132:LEU:HD13	1:C:133:GLU:HG2	1.93	0.50
1:C:147:LEU:O	1:C:177:TYR:HA	2.12	0.49
1:B:181:PRO:HB2	1:B:183:ASN:OD1	2.12	0.49
1:B:195:LYS:HB3	1:B:209:TYR:CE2	2.47	0.49
1:C:145:GLY:O	1:C:180:VAL:HG22	2.12	0.49
1:B:132:LEU:C	1:B:132:LEU:HD13	2.39	0.48
1:A:145:GLY:CA	1:A:185:ARG:HD2	2.44	0.48
1:C:242:LEU:HD12	1:C:266:LYS:NZ	2.26	0.48
1:C:185:ARG:HG2	1:C:185:ARG:HH11	1.78	0.47
1:B:142:VAL:HA	1:B:146:LYS:O	2.15	0.47
1:B:180:VAL:HG22	1:B:181:PRO:HD2	1.97	0.47
1:B:142:VAL:CG1	1:B:147:LEU:HD23	2.43	0.46
1:B:197:GLN:NE2	1:B:210:GLU:HG3	2.31	0.46
1:B:269:PRO:O	1:B:272:CYS:HB2	2.15	0.46
1:B:209:TYR:OH	1:B:212:GLY:HA2	2.15	0.46
1:A:145:GLY:C	1:A:180:VAL:HG12	2.41	0.46
1:C:174:ASP:CG	1:C:174:ASP:O	2.59	0.46
1:B:259:ASN:HB2	1:B:260:GLU:OE2	2.16	0.45
1:B:119:VAL:CG1	1:B:120:MET:N	2.79	0.45
1:B:197:GLN:HE21	1:B:210:GLU:HA	1.82	0.45
1:A:222:ALA:O	1:A:223:LYS:C	2.60	0.45
1:A:269:PRO:HD2	1:A:272:CYS:SG	2.56	0.45
1:B:147:LEU:HD11	1:B:157:ILE:CD1	2.46	0.45
1:C:256:VAL:HG13	1:C:264:THR:HG23	1.97	0.45
1:A:169:LYS:N	1:A:169:LYS:HD2	2.32	0.44
1:A:183:ASN:OD1	1:A:184:MET:HG3	2.17	0.44
1:C:209:TYR:CZ	1:C:212:GLY:HA2	2.51	0.44
1:A:191:TYR:CD1	1:A:191:TYR:C	2.94	0.44
1:C:209:TYR:OH	1:C:212:GLY:HA2	2.18	0.44
1:C:132:LEU:HD13	1:C:133:GLU:N	2.32	0.44
1:C:142:VAL:HG23	1:C:142:VAL:O	2.18	0.44
1:A:245:VAL:HB	1:A:272:CYS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:260:GLU:CD	1:B:260:GLU:N	2.65	0.43
1:A:268:THR:HA	1:A:269:PRO:HD3	1.91	0.43
1:B:120:MET:HE3	1:C:191:TYR:CD2	2.54	0.43
1:B:268:THR:HA	1:B:269:PRO:HD3	1.87	0.42
1:A:197:GLN:NE2	1:A:211:ASN:H	2.18	0.42
1:B:167:THR:OG1	1:B:176:GLU:HG2	2.20	0.42
1:B:147:LEU:HD22	1:B:148:PHE:N	2.34	0.41
1:A:151:MET:HE1	1:A:170:ALA:N	2.35	0.41
1:C:162:LEU:HD21	1:C:184:MET:HE1	2.02	0.41
1:B:185:ARG:HH11	1:B:185:ARG:HG2	1.85	0.41
1:C:182:GLN:C	1:C:184:MET:H	2.29	0.41
1:C:197:GLN:HG3	4:C:285:HOH:O	2.20	0.41
1:A:244:GLY:O	1:A:273:GLU:HG2	2.21	0.40
1:B:221:GLY:HA2	1:B:225:ASP:OD2	2.21	0.40
1:C:195:LYS:HE3	1:C:257:MET:SD	2.61	0.40
1:C:133:GLU:OE1	1:C:133:GLU:HA	2.21	0.40
1:C:149:ARG:NH2	1:C:155:GLY:O	2.45	0.40
1:C:268:THR:HA	1:C:269:PRO:HD3	1.88	0.40

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	154/157 (98%)	147 (96%)	7 (4%)	0	100	100
1	B	155/157 (99%)	144 (93%)	11 (7%)	0	100	100
1	C	150/157 (96%)	138 (92%)	9 (6%)	3 (2%)	6	5
All	All	459/471 (98%)	429 (94%)	27 (6%)	3 (1%)	18	23

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	184	MET
1	C	134	GLY
1	C	133	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	125/130 (96%)	124 (99%)	1 (1%)	73	86
1	B	122/130 (94%)	118 (97%)	4 (3%)	33	50
1	C	115/130 (88%)	114 (99%)	1 (1%)	70	84
All	All	362/390 (93%)	356 (98%)	6 (2%)	53	72

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	147	LEU
1	B	180	VAL
1	B	195	LYS
1	B	260	GLU
1	A	250	ARG
1	C	125	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	182	GLN
1	B	197	GLN
1	B	208	GLN
1	B	274	GLN
1	A	197	GLN
1	A	203	HIS
1	A	211	ASN
1	A	234	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](#)

9 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	URE	B	946	-	3,3,3	0.40	0	3,3,3	2.37	2 (66%)
2	URE	B	940	-	3,3,3	0.24	0	3,3,3	2.34	2 (66%)
2	URE	A	943	-	3,3,3	0.14	0	3,3,3	2.33	1 (33%)
2	URE	B	945	-	3,3,3	0.39	0	3,3,3	2.35	2 (66%)
3	SO4	A	859	-	4,4,4	0.39	0	6,6,6	0.12	0
2	URE	A	944	-	3,3,3	0.31	0	3,3,3	2.17	1 (33%)
2	URE	B	942	-	3,3,3	0.36	0	3,3,3	2.21	1 (33%)
2	URE	B	941	-	3,3,3	0.28	0	3,3,3	2.38	2 (66%)
3	SO4	A	759	-	4,4,4	0.41	0	6,6,6	0.12	0

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	941	URE	O-C-N2	-3.23	113.96	121.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	946	URE	O-C-N2	-3.21	114.01	121.04
2	B	945	URE	O-C-N2	-3.19	114.06	121.04
2	B	940	URE	O-C-N2	-3.18	114.09	121.04
2	A	943	URE	O-C-N2	-3.18	114.09	121.04
2	B	942	URE	O-C-N2	-3.00	114.47	121.04
2	A	944	URE	O-C-N2	-2.95	114.57	121.04
2	B	946	URE	O-C-N1	2.16	125.78	121.04
2	B	945	URE	O-C-N1	2.13	125.70	121.04
2	B	940	URE	O-C-N1	2.08	125.59	121.04
2	B	941	URE	O-C-N1	2.03	125.48	121.04

There are no chirality outliers.

There are no torsion outliers.

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	147:LEU	C	148:PHE	N	1.14

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	156/157 (99%)	0.13	4 (2%) 57 59	10, 26, 40, 46	0
1	B	157/157 (100%)	0.29	3 (1%) 66 68	12, 29, 50, 59	0
1	C	152/157 (96%)	0.82	8 (5%) 32 34	31, 44, 64, 70	0
All	All	465/471 (98%)	0.41	15 (3%) 50 52	10, 33, 55, 70	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	249	SER	3.9
1	C	199	TYR	2.3
1	C	127	THR	2.3
1	A	263	VAL	2.2
1	C	211	ASN	2.2
1	C	220	VAL	2.2
1	B	180	VAL	2.1
1	C	233	ASN	2.1
1	B	181	PRO	2.1
1	A	145	GLY	2.1
1	C	134	GLY	2.1
1	C	124	SER	2.1
1	A	186	ALA	2.1
1	B	144	GLY	2.1
1	A	187	ASP	2.0

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
3	SO4	A	759	5/5	0.67	0.17	83,83,83,83	0
2	URE	B	942	4/4	0.68	0.15	41,42,42,43	0
2	URE	B	941	4/4	0.69	0.16	50,51,51,51	0
2	URE	B	946	4/4	0.72	0.16	70,70,70,70	0
2	URE	A	943	4/4	0.78	0.17	57,57,57,57	0
2	URE	B	945	4/4	0.78	0.14	42,43,43,43	0
2	URE	A	944	4/4	0.83	0.11	52,52,53,53	0
3	SO4	A	859	5/5	0.84	0.19	71,72,72,73	0
2	URE	B	940	4/4	0.92	0.13	41,41,41,42	0

6.5 Other polymers [i](#)

There are no such residues in this entry.