Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 11:46 pm BST

PDB ID	:	4AC7
Title	:	The crystal structure of Sporosarcina pasteurii urease in complex with citrate
Authors	:	Benini, S.; Kosikowska, P.; Cianci, M.; Gonzalez Vara, A.; Berlicki, L.; Ciurli, S.
Deposited on	:	2011-12-14
Resolution	:	1.50 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 following versions of software and data (see references ①) were used in the production of this report:

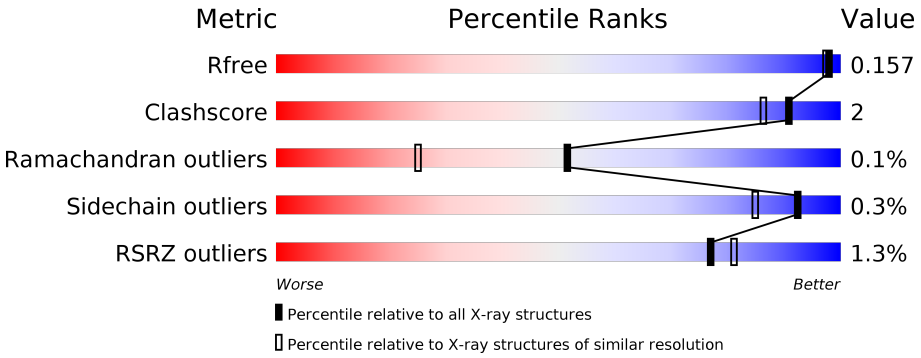
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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	2936 (1.50-1.50)
Clashscore	141614	3144 (1.50-1.50)
Ramachandran outliers	138981	3066 (1.50-1.50)
Sidechain outliers	138945	3064 (1.50-1.50)
RSRZ outliers	127900	2884 (1.50-1.50)

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 <=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	100	100%
2	B	126	% 93%
3	C	570	2% 95% 5%

2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 6830 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 UREASE SUBUNIT GAMMA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	100	Total	C	N	O	S	0	2	0
			784	496	130	151	7			

- Molecule 2 is a protein called UREASE SUBUNIT BETA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	122	Total	C	N	O	S	0	1	0
			948	589	172	186	1			

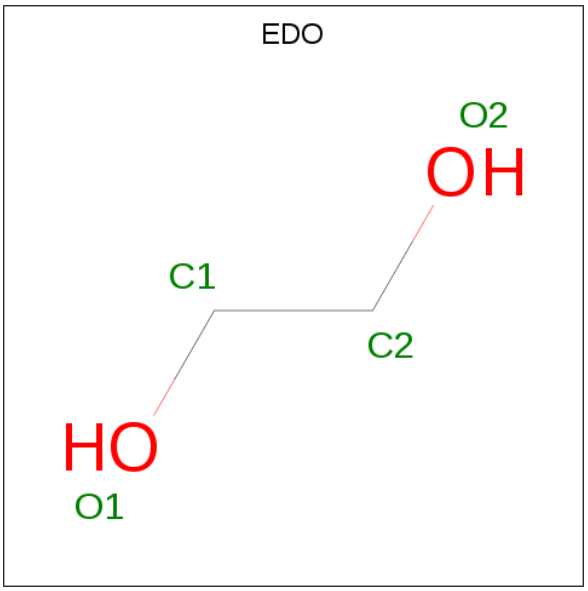
- Molecule 3 is a protein called UREASE SUBUNIT ALPHA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	570	Total	C	N	O	S	0	9	0
			4351	2736	744	846	25			

There are 8 discrepancies between the modelled and reference sequences:

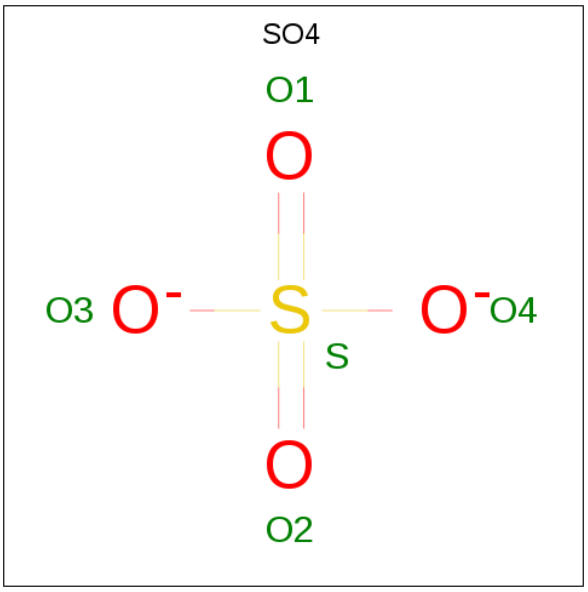
Chain	Residue	Modelled	Actual	Comment	Reference
C	19	GLU	ARG	conflict	UNP P41020
C	28	TRP	GLY	conflict	UNP P41020
C	29	ILE	-	insertion	UNP P41020
C	36	THR	TYR	conflict	UNP P41020
C	37	THR	TYR	conflict	UNP P41020
C	38	TYR	LEU	conflict	UNP P41020
C	263	LEU	VAL	conflict	UNP P41020
C	420	ILE	MET	conflict	UNP P41020

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O_4S).

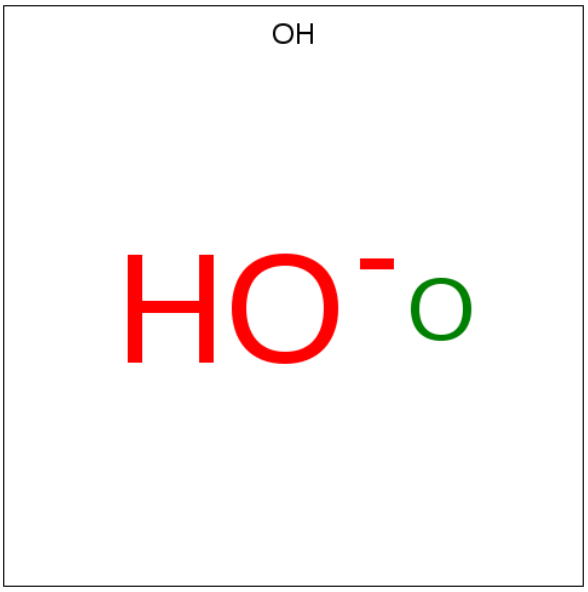


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	B	1	Total O S 5 4 1	0	0
5	C	1	Total O S 5 4 1	0	0
5	C	1	Total O S 5 4 1	0	0
5	C	1	Total O S 5 4 1	0	0

- Molecule 6 is NICKEL (II) ION (three-letter code: NI) (formula: Ni).

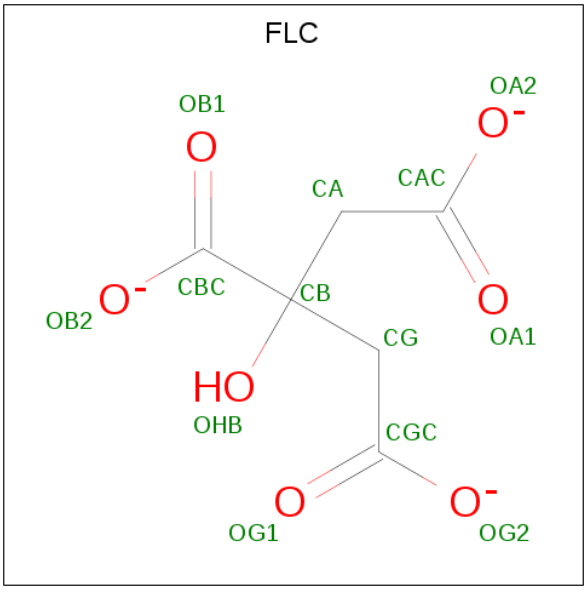
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	C	2	Total Ni 2 2	0	0

- Molecule 7 is HYDROXIDE ION (three-letter code: OH) (formula: HO).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	C	1	Total O 1 1	0	0

- Molecule 8 is CITRATE ANION (three-letter code: FLC) (formula: $C_6H_5O_7$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	C	1	Total C O 13 6 7	0	0

- Molecule 9 is water.

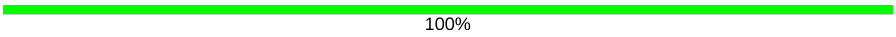
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	93	Total O 93 93	0	0
9	B	141	Total O 141 141	0	0
9	C	437	Total O 437 437	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: UREASE SUBUNIT GAMMA

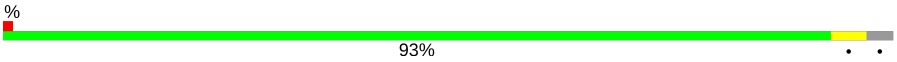
Chain A:

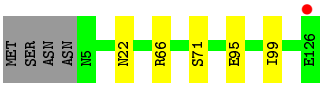


There are no outlier residues recorded for this chain.

- Molecule 2: UREASE SUBUNIT BETA

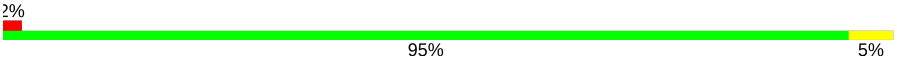
Chain B:

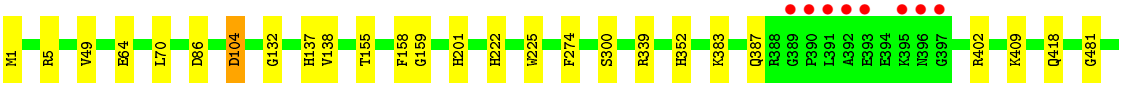


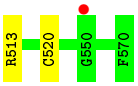


- Molecule 3: UREASE SUBUNIT ALPHA

Chain C:







4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 63 2 2	Depositor
Cell constants a, b, c, α, β, γ	131.56Å 131.56Å 189.52Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	113.93 – 1.50 55.25 – 1.50	Depositor EDS
% Data completeness (in resolution range)	99.9 (113.93-1.50) 99.9 (55.25-1.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	4.04 (at 1.50Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.117 , 0.146 0.130 , 0.157	Depositor DCC
R_{free} test set	7712 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	13.4	Xtriage
Anisotropy	0.496	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.37 , 45.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.98	EDS
Total number of atoms	6830	wwPDB-VP
Average B, all atoms (Å^2)	16.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.36% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: NI, OH, EDO, CXM, SO4, FLC, KCX

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	0.52	0/790	0.67	0/1064
2	B	0.49	0/963	0.65	0/1296
3	C	0.56	1/4447 (0.0%)	0.74	6/6029 (0.1%)
All	All	0.54	1/6200 (0.0%)	0.72	6/8389 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	520	CYS	CB-SG	-5.74	1.72	1.81

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	5	ARG	NE-CZ-NH2	-6.70	116.95	120.30
3	C	520	CYS	CB-CA-C	-6.30	97.80	110.40
3	C	104	ASP	CB-CG-OD1	5.32	123.09	118.30
3	C	402	ARG	NE-CZ-NH1	5.22	122.91	120.30
3	C	339	ARG	NE-CZ-NH2	-5.04	117.78	120.30
3	C	5	ARG	NE-CZ-NH1	5.01	122.80	120.30

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	784	0	795	0	0
2	B	948	0	933	4	0
3	C	4351	0	4314	19	0
4	A	12	0	18	0	0
4	B	4	0	6	0	0
4	C	24	0	36	1	0
5	B	5	0	0	0	0
5	C	15	0	0	0	0
6	C	2	0	0	0	0
7	C	1	0	0	0	0
8	C	13	0	5	0	0
9	A	93	0	0	0	0
9	B	141	0	0	0	0
9	C	437	0	0	4	0
All	All	6830	0	6107	21	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 2.

All (21) 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)
3:C:64[A]:GLU:OE2	9:C:2082:HOH:O	2.00	0.79
3:C:201:HIS:HE1	3:C:222:HIS:H	1.31	0.78
3:C:201:HIS:CE1	3:C:222:HIS:H	2.03	0.77
3:C:513[A]:ARG:NH1	9:C:2373:HOH:O	2.30	0.65
3:C:300:SER:OG	3:C:352:HIS:HE1	1.89	0.55
3:C:383:LYS:NZ	3:C:387:GLN:HE22	2.04	0.54
3:C:352:HIS:HD2	3:C:409:LYS:NZ	2.07	0.53
3:C:383:LYS:HZ3	3:C:387:GLN:HE22	1.59	0.51
3:C:352:HIS:HD2	3:C:409:LYS:HZ2	1.60	0.50
2:B:22:ASN:HD21	2:B:66:ARG:HH22	1.61	0.47
3:C:70:LEU:HD11	3:C:86:ASP:HB3	1.97	0.47
2:B:71:SER:OG	3:C:49:VAL:HG21	2.15	0.46
3:C:481:GLY:HA3	9:C:2335:HOH:O	2.16	0.44
2:B:95:GLU:O	3:C:104:ASP:HB3	2.18	0.44
3:C:201:HIS:CE1	3:C:225:TRP:HB2	2.54	0.43
3:C:138:VAL:O	3:C:159:GLY:HA3	2.20	0.42
3:C:132:GLY:HA3	3:C:155:THR:OG1	2.20	0.42
3:C:418:GLN:NE2	9:C:2247:HOH:O	2.53	0.41
3:C:137:HIS:CE1	3:C:274:PHE:CD2	3.08	0.41
2:B:22:ASN:ND2	2:B:66:ARG:HH22	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:513[A]:ARG:NH2	4:C:1576:EDO:O2	2.49	0.41

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	100/100 (100%)	100 (100%)	0	0	100 100
2	B	121/126 (96%)	116 (96%)	4 (3%)	1 (1%)	19 5
3	C	576/570 (101%)	554 (96%)	22 (4%)	0	100 100
All	All	797/796 (100%)	770 (97%)	26 (3%)	1 (0%)	51 25

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	99	ILE

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	83/84 (99%)	83 (100%)	0	100 100
2	B	99/105 (94%)	99 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	C	461/460 (100%)	459 (100%)	2 (0%)	91 82
All	All	643/649 (99%)	641 (100%)	2 (0%)	92 85

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	C	1	MET
3	C	158	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	22	ASN
3	C	201	HIS
3	C	267	ASN
3	C	352	HIS
3	C	387	GLN
3	C	418	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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	$\#\|Z\| > 2$
3	KCX	C	220	3,6	7,11,12	0.71	0	4,12,14	0.47	0
1	CXM	A	1	1	6,10,11	0.79	0	5,11,13	0.16	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
3	KCX	C	220	3,6	-	0/7/10/12	-
1	CXM	A	1	1	-	1/7/10/12	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	1	CXM	C-CA-N-CN

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

Of 18 ligands modelled in this entry, 1 is modelled with single atom and 2 are monoatomic - leaving 15 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	$\#\|Z\| > 2$
4	EDO	C	1576	-	3,3,3	0.61	0	2,2,2	0.13	0
5	SO4	C	1580	-	4,4,4	0.42	0	6,6,6	0.50	0
8	FLC	C	1572	6	3,12,12	1.02	0	3,17,17	1.89	1 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	EDO	C	1578	-	3,3,3	0.42	0	2,2,2	0.35	0
4	EDO	C	1575	-	3,3,3	0.40	0	2,2,2	0.49	0
4	EDO	A	1101	-	3,3,3	0.46	0	2,2,2	0.46	0
4	EDO	C	1574	-	3,3,3	0.34	0	2,2,2	0.19	0
4	EDO	C	1573	-	3,3,3	0.37	0	2,2,2	0.39	0
5	SO4	C	1581	-	4,4,4	0.34	0	6,6,6	0.04	0
4	EDO	A	1103	-	3,3,3	0.65	0	2,2,2	0.10	0
4	EDO	C	1577	-	3,3,3	0.53	0	2,2,2	0.13	0
4	EDO	A	1102	-	3,3,3	0.55	0	2,2,2	0.31	0
5	SO4	C	1579	-	4,4,4	0.31	0	6,6,6	0.23	0
5	SO4	B	1128	-	4,4,4	0.39	0	6,6,6	0.20	0
4	EDO	B	1127	-	3,3,3	0.49	0	2,2,2	0.16	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
4	EDO	C	1576	-	-	0/1/1/1	-
8	FLC	C	1572	6	-	1/6/16/16	-
4	EDO	C	1578	-	-	0/1/1/1	-
4	EDO	C	1575	-	-	1/1/1/1	-
4	EDO	A	1101	-	-	0/1/1/1	-
4	EDO	C	1574	-	-	0/1/1/1	-
4	EDO	B	1127	-	-	0/1/1/1	-
4	EDO	A	1103	-	-	0/1/1/1	-
4	EDO	C	1577	-	-	0/1/1/1	-
4	EDO	A	1102	-	-	0/1/1/1	-
4	EDO	C	1573	-	-	0/1/1/1	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	C	1572	FLC	CB-CA-CAC	-2.61	110.80	114.98

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	C	1572	FLC	CAC-CA-CB-OHB
4	C	1575	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	1576	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

6.1 Protein, DNA and RNA chains

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^{th} 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	99/100 (99%)	-0.62	0 100 100	10, 13, 21, 33	0
2	B	122/126 (96%)	-0.27	1 (0%) 86 89	11, 15, 26, 44	0
3	C	569/570 (99%)	-0.42	9 (1%) 72 77	9, 12, 23, 63	1 (0%)
All	All	790/796 (99%)	-0.42	10 (1%) 77 81	9, 13, 24, 63	1 (0%)

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	C	396	ASN	5.8
3	C	391	LEU	5.2
3	C	392	ALA	4.7
3	C	390	PRO	4.7
3	C	397	GLY	4.3
2	B	126	GLU	3.8
3	C	395	LYS	3.6
3	C	550	GLY	2.3
3	C	389	GLY	2.2
3	C	393	GLU	2.2

6.2 Non-standard residues in protein, DNA, RNA chains

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^{th} 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	CXM	A	1	11/12	0.97	0.08	13,14,20,21	0
3	KCX	C	220	12/13	0.98	0.06	9,9,10,10	0

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, 95^{th} 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
4	EDO	C	1576	4/4	0.89	0.17	23,28,29,30	0
4	EDO	A	1102	4/4	0.90	0.20	29,30,34,39	0
4	EDO	C	1577	4/4	0.90	0.27	30,31,34,38	0
5	SO4	C	1579	5/5	0.90	0.19	21,40,43,48	5
4	EDO	C	1578	4/4	0.91	0.15	28,30,37,39	0
4	EDO	A	1103	4/4	0.93	0.15	22,24,26,26	0
5	SO4	C	1580	5/5	0.94	0.18	16,17,32,39	5
4	EDO	B	1127	4/4	0.94	0.12	25,28,30,35	0
5	SO4	B	1128	5/5	0.94	0.26	47,54,70,77	0
4	EDO	C	1575	4/4	0.95	0.13	29,30,33,43	0
5	SO4	C	1581	5/5	0.96	0.14	49,59,62,65	5
8	FLC	C	1572	13/13	0.96	0.11	11,17,24,24	0
4	EDO	C	1574	4/4	0.97	0.11	20,22,26,28	0
4	EDO	C	1573	4/4	0.97	0.11	21,23,27,27	0
4	EDO	A	1101	4/4	0.99	0.05	14,17,19,20	0
6	NI	C	600	1/1	1.00	0.03	11,11,11,11	0
7	OH	C	1571	1/1	1.00	0.08	8,8,8,8	0
6	NI	C	601	1/1	1.00	0.03	10,10,10,10	0

6.5 Other polymers (i)

There are no such residues in this entry.