Full wwPDB X-ray Structure Validation Report ⓘ

Nov 1, 2023 – 05:09 PM JST

PDB ID	:	5WTL
Title	:	Crystal structure of the periplasmic portion of outer membrane protein A (OmpA) from Capnocytophaga gingivalis
Authors	:	Dai, S.; Tan, K.; Ye, S.; Zhang, R.
Deposited on	:	2016-12-13
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:

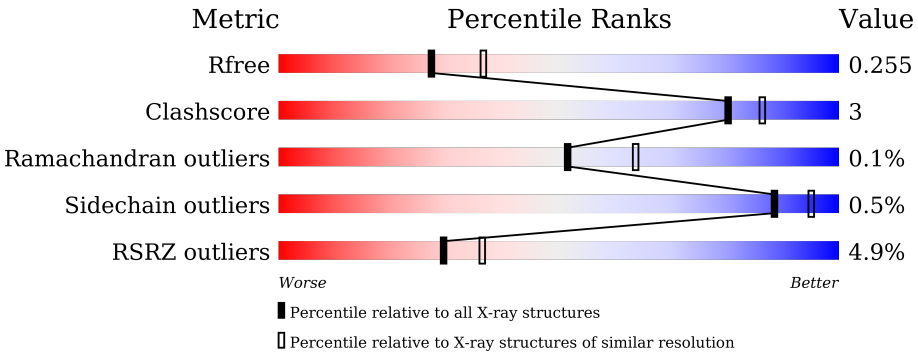
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 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))
R_{free}	130704	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (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 <=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	261	3% 92% 7%
1	B	261	4% 92% 7%
1	C	261	4% 95% 5%
1	D	261	8% 85% 9% 5%

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 crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	MES	C	1011	-	-	-	X

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 8183 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.

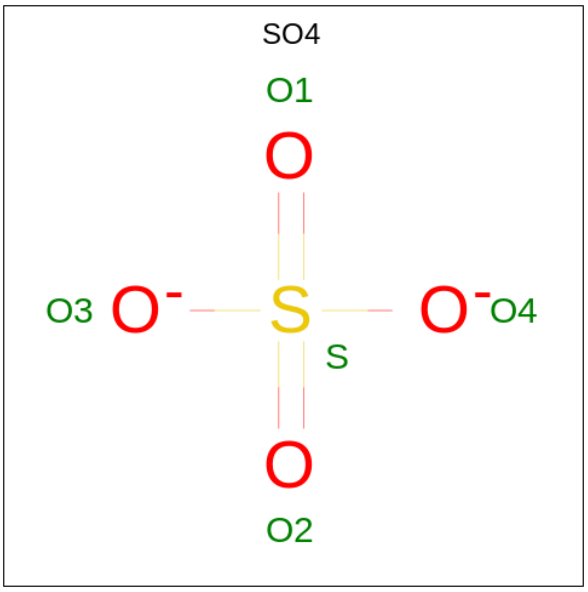
- Molecule 1 is a protein called OmpA family protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	258	Total	C	N	O	S	0	0	0
			1936	1185	335	405	11			
1	B	258	Total	C	N	O	S	0	0	0
			1936	1185	335	405	11			
1	C	260	Total	C	N	O	S	0	0	0
			1951	1194	338	408	11			
1	D	247	Total	C	N	O	S	0	0	0
			1852	1136	321	384	11			

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

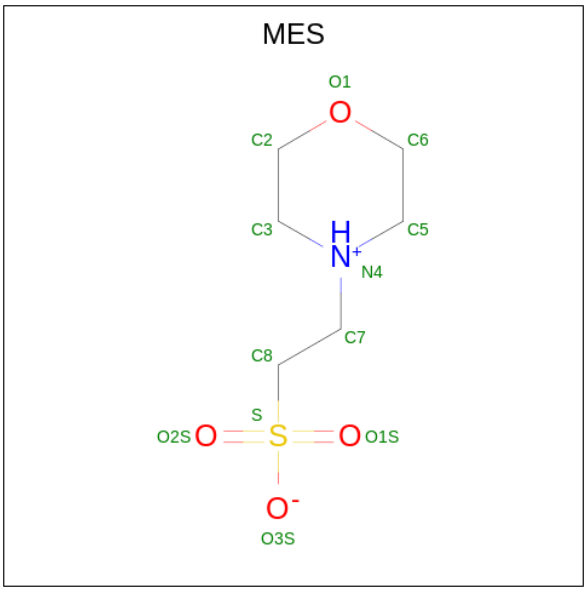
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	11	Total	Ca	0	0
			11	11		
2	B	10	Total	Ca	0	0
			10	10		
2	C	11	Total	Ca	0	0
			11	11		
2	D	9	Total	Ca	0	0
			9	9		

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O_4S).



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

- Molecule 4 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (three-letter code: MES) (formula: $C_6H_{13}NO_4S$).



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

- Molecule 5 is water.

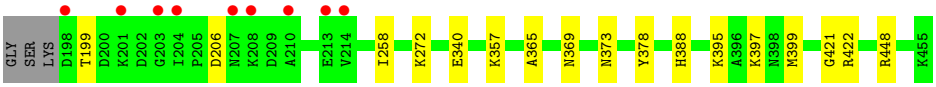
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	129	Total O 129 129	0	0
5	B	108	Total O 108 108	0	0
5	C	114	Total O 114 114	0	0
5	D	94	Total O 94 94	0	0

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.

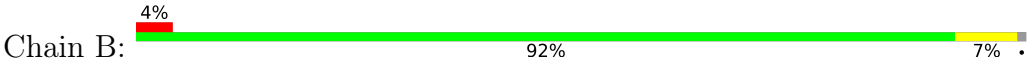
• Molecule 1: OmpA family protein

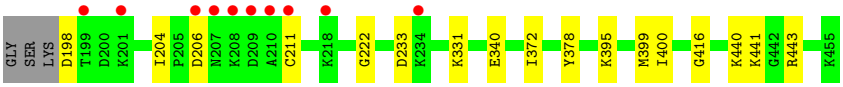
Chain A:



• Molecule 1: OmpA family protein

Chain B:



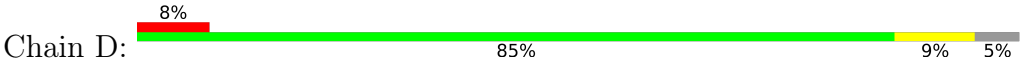


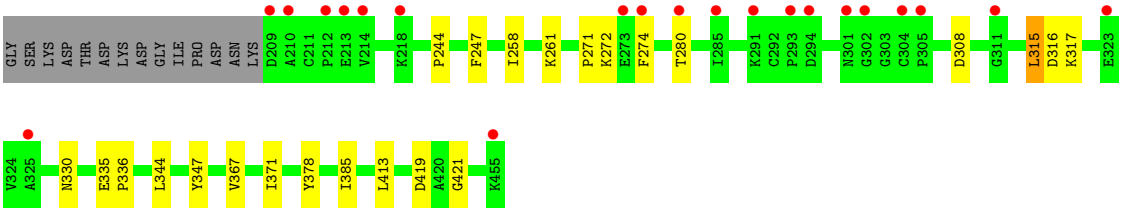
• Molecule 1: OmpA family protein

Chain C:

• Molecule 1: OmpA family protein

Chain D:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	73.20Å 87.34Å 185.46Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.51 – 2.30 42.51 – 2.30	Depositor EDS
% Data completeness (in resolution range)	98.6 (42.51-2.30) 98.6 (42.51-2.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.86 (at 2.29Å)	Xtriage
Refinement program	PHENIX 1.8.2_1309	Depositor
R, R_{free}	0.203 , 0.255 0.203 , 0.255	Depositor DCC
R_{free} test set	2700 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å^2)	35.6	Xtriage
Anisotropy	0.668	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 47.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	8183	wwPDB-VP
Average B, all atoms (Å^2)	56.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 14.79% 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: CA, SO4, MES

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	0.25	0/1972	0.45	0/2666
1	B	0.24	0/1972	0.44	0/2666
1	C	0.24	0/1987	0.44	0/2685
1	D	0.24	0/1887	0.44	0/2551
All	All	0.24	0/7818	0.44	0/10568

There are no bond length outliers.

There are no bond angle outliers.

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	1936	0	1850	10	0
1	B	1936	0	1850	10	0
1	C	1951	0	1868	11	0
1	D	1852	0	1774	12	0
2	A	11	0	0	0	0
2	B	10	0	0	0	0
2	C	11	0	0	0	0
2	D	9	0	0	0	0
3	B	5	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	5	0	0	0	0
4	C	12	0	13	4	0
5	A	129	0	0	3	0
5	B	108	0	0	2	0
5	C	114	0	0	2	0
5	D	94	0	0	1	0
All	All	8183	0	7355	41	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.

All (41) 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:440:LYS:HD2	1:B:443:ARG:HH21	1.59	0.67
1:A:421:GLY:HA3	1:B:400:ILE:HG23	1.79	0.63
1:A:365:ALA:O	1:A:369:ASN:ND2	2.32	0.62
1:C:372:ILE:HD13	1:C:416:GLY:HA3	1.84	0.59
1:B:198:ASP:N	1:B:206:ASP:OD2	2.37	0.58
1:D:419:ASP:OD1	5:D:601:HOH:O	2.17	0.58
1:B:331:LYS:NZ	5:B:1107:HOH:O	2.36	0.57
1:C:400:ILE:HG23	1:D:421:GLY:HA3	1.87	0.56
1:D:344:LEU:HD11	1:D:371:ILE:HG23	1.88	0.56
1:A:357:LYS:NZ	5:A:1107:HOH:O	2.40	0.54
1:C:440:LYS:H	4:C:1011:MES:H62	1.71	0.54
1:C:440:LYS:HB2	4:C:1011:MES:H21	1.91	0.52
1:D:258:ILE:HD11	1:D:272:LYS:HG2	1.91	0.52
1:D:315:LEU:HD13	1:D:317:LYS:HG3	1.91	0.52
1:B:372:ILE:HD13	1:B:416:GLY:HA3	1.92	0.51
1:C:354:ASP:OD2	1:C:359:THR:OG1	2.29	0.50
1:A:340:GLU:OE1	1:A:378:TYR:OH	2.29	0.50
1:C:443:ARG:HH22	4:C:1011:MES:H82	1.77	0.50
1:A:373:ASN:O	5:A:1101:HOH:O	2.19	0.49
1:A:258:ILE:HD11	1:A:272:LYS:HG2	1.94	0.49
1:D:385:ILE:HD11	1:D:413:LEU:HD12	1.95	0.48
1:B:340:GLU:OE1	1:B:378:TYR:OH	2.31	0.47
1:D:330:ASN:ND2	1:D:335:GLU:HG3	2.31	0.46
1:C:395:LYS:O	1:C:399:MET:HG2	2.16	0.46
1:C:443:ARG:HH12	4:C:1011:MES:HN4	1.64	0.45
1:C:328:ALA:N	5:C:1115:HOH:O	2.50	0.45
1:B:395:LYS:O	1:B:399:MET:HG2	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:244:PRO:HG2	1:D:247:PHE:HD2	1.83	0.43
1:A:422:ARG:NH1	5:A:1106:HOH:O	2.36	0.43
1:D:347:TYR:HB3	1:D:367:VAL:HG13	2.01	0.43
1:D:308:ASP:HA	1:D:316:ASP:OD1	2.18	0.43
1:A:395:LYS:O	1:A:399:MET:HG2	2.19	0.43
1:D:271:PRO:HG2	1:D:274:PHE:HD1	1.83	0.43
1:D:336:PRO:HG3	1:D:378:TYR:CD2	2.54	0.43
1:C:306:TRP:HA	1:C:307:PRO:HD3	1.82	0.43
1:A:388:HIS:HB2	1:A:448:ARG:HG2	2.01	0.42
1:B:233:ASP:OD1	5:B:1101:HOH:O	2.22	0.42
1:C:233:ASP:OD1	5:C:1101:HOH:O	2.22	0.41
1:B:441:LYS:HA	1:B:441:LYS:HD2	1.80	0.41
1:B:204:ILE:HD13	1:B:222:GLY:HA2	2.02	0.41
1:A:199:THR:N	1:A:206:ASP:OD1	2.45	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	256/261 (98%)	252 (98%)	4 (2%)	0	100	100
1	B	256/261 (98%)	249 (97%)	7 (3%)	0	100	100
1	C	258/261 (99%)	255 (99%)	3 (1%)	0	100	100
1	D	245/261 (94%)	237 (97%)	7 (3%)	1 (0%)	34	42
All	All	1015/1044 (97%)	993 (98%)	21 (2%)	1 (0%)	51	64

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	280	THR

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	213/215 (99%)	212 (100%)	1 (0%)	88 95
1	B	213/215 (99%)	212 (100%)	1 (0%)	88 95
1	C	215/215 (100%)	215 (100%)	0	100 100
1	D	203/215 (94%)	201 (99%)	2 (1%)	76 87
All	All	844/860 (98%)	840 (100%)	4 (0%)	88 95

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	397	LYS
1	B	211	CYS
1	D	261	LYS
1	D	315	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	380	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 44 ligands modelled in this entry, 41 are monoatomic - leaving 3 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	$\#\|Z\| > 2$
3	SO4	C	1012	-	4,4,4	0.14	0	6,6,6	0.07	0
3	SO4	B	1011	-	4,4,4	0.15	0	6,6,6	0.07	0
4	MES	C	1011	-	12,12,12	2.27	1 (8%)	14,16,16	1.23	3 (21%)

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	MES	C	1011	-	-	0/6/14/14	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	1011	MES	C8-S	-7.63	1.66	1.77

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	C	1011	MES	O3S-S-C8	2.33	109.54	105.77
4	C	1011	MES	O2S-S-C8	2.19	109.55	106.92
4	C	1011	MES	O1S-S-C8	2.16	109.51	106.92

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	1011	MES	4	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	258/261 (98%)	0.07	9 (3%)	44	51	27, 50, 98, 141	0
1	B	258/261 (98%)	0.17	10 (3%)	39	46	25, 50, 113, 151	0
1	C	260/261 (99%)	0.13	10 (3%)	40	47	22, 52, 101, 130	0
1	D	247/261 (94%)	0.32	21 (8%)	10	14	26, 53, 116, 148	0
All	All	1023/1044 (97%)	0.17	50 (4%)	29	36	22, 51, 108, 151	0

All (50) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	210	ALA	7.3
1	B	207	ASN	6.9
1	B	201	LYS	5.5
1	D	213	GLU	5.3
1	D	274	PHE	4.6
1	B	210	ALA	4.5
1	A	203	GLY	4.5
1	C	299	ALA	4.5
1	A	213	GLU	4.5
1	B	234	LYS	4.2
1	A	201	LYS	4.1
1	B	208	LYS	4.0
1	C	305	PRO	3.8
1	C	294	ASP	3.5
1	D	212	PRO	3.5
1	B	211	CYS	3.3
1	A	208	LYS	3.3
1	D	218	LYS	3.2
1	A	204	ILE	3.1
1	D	293	PRO	3.1
1	C	362	PHE	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	D	280	THR	3.0
1	D	455	LYS	2.9
1	C	295	VAL	2.8
1	D	273	GLU	2.8
1	D	323	GLU	2.8
1	D	209	ASP	2.7
1	B	206	ASP	2.6
1	C	296	ALA	2.5
1	B	199	THR	2.5
1	C	300	GLU	2.5
1	A	207	ASN	2.4
1	A	214	VAL	2.3
1	D	304	CYS	2.3
1	D	301	ASN	2.3
1	D	325	ALA	2.2
1	D	305	PRO	2.2
1	B	209	ASP	2.1
1	B	218	LYS	2.1
1	D	291	LYS	2.1
1	D	214	VAL	2.1
1	C	298	PRO	2.1
1	D	285	ILE	2.1
1	D	311	GLY	2.1
1	C	303	GLY	2.1
1	C	306	TRP	2.1
1	D	302	GLY	2.0
1	A	198	ASP	2.0
1	D	294	ASP	2.0
1	A	210	ALA	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 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, 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	MES	C	1011	12/12	0.35	0.58	110,115,124,125	12
2	CA	B	1002	1/1	0.76	0.07	92,92,92,92	0
2	CA	A	1002	1/1	0.86	0.09	84,84,84,84	0
2	CA	A	1001	1/1	0.88	0.12	87,87,87,87	0
3	SO4	C	1012	5/5	0.89	0.16	61,61,61,62	5
2	CA	D	506	1/1	0.89	0.06	82,82,82,82	0
2	CA	D	508	1/1	0.90	0.07	67,67,67,67	0
3	SO4	B	1011	5/5	0.93	0.17	65,65,65,66	5
2	CA	D	509	1/1	0.94	0.06	62,62,62,62	0
2	CA	D	501	1/1	0.94	0.06	82,82,82,82	0
2	CA	B	1009	1/1	0.94	0.06	37,37,37,37	0
2	CA	C	1007	1/1	0.94	0.07	77,77,77,77	0
2	CA	C	1008	1/1	0.95	0.09	90,90,90,90	0
2	CA	B	1001	1/1	0.97	0.04	91,91,91,91	0
2	CA	C	1001	1/1	0.97	0.03	46,46,46,46	0
2	CA	D	505	1/1	0.97	0.04	47,47,47,47	0
2	CA	B	1003	1/1	0.97	0.07	48,48,48,48	0
2	CA	D	507	1/1	0.97	0.10	97,97,97,97	0
2	CA	C	1009	1/1	0.98	0.08	57,57,57,57	0
2	CA	C	1010	1/1	0.98	0.02	46,46,46,46	0
2	CA	A	1004	1/1	0.98	0.11	33,33,33,33	0
2	CA	D	503	1/1	0.98	0.17	32,32,32,32	0
2	CA	A	1010	1/1	0.98	0.09	49,49,49,49	0
2	CA	C	1002	1/1	0.98	0.04	41,41,41,41	0
2	CA	C	1003	1/1	0.98	0.05	37,37,37,37	0
2	CA	C	1004	1/1	0.98	0.02	37,37,37,37	0
2	CA	C	1005	1/1	0.98	0.04	44,44,44,44	0
2	CA	C	1006	1/1	0.98	0.06	51,51,51,51	0
2	CA	A	1011	1/1	0.98	0.16	32,32,32,32	0
2	CA	B	1004	1/1	0.98	0.08	36,36,36,36	0
2	CA	A	1003	1/1	0.99	0.11	41,41,41,41	0
2	CA	B	1010	1/1	0.99	0.06	41,41,41,41	0
2	CA	D	502	1/1	0.99	0.15	36,36,36,36	0
2	CA	A	1005	1/1	0.99	0.09	28,28,28,28	0
2	CA	D	504	1/1	0.99	0.07	43,43,43,43	0
2	CA	A	1006	1/1	0.99	0.04	32,32,32,32	0
2	CA	A	1007	1/1	0.99	0.03	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	CA	A	1008	1/1	0.99	0.05	42,42,42,42	0
2	CA	A	1009	1/1	0.99	0.09	46,46,46,46	0
2	CA	B	1005	1/1	0.99	0.07	35,35,35,35	0
2	CA	B	1006	1/1	0.99	0.04	34,34,34,34	0
2	CA	B	1007	1/1	0.99	0.06	36,36,36,36	0
2	CA	B	1008	1/1	0.99	0.03	36,36,36,36	0
2	CA	C	1013	1/1	1.00	0.16	35,35,35,35	0

6.5 Other polymers (i)

There are no such residues in this entry.