

wwPDB X-ray Structure Validation Summary Report (i)

Jan 8, 2024 – 06:04 am GMT

PDB ID : 6G48

Title : Sporosarcina pasteurii urease inhibited by silver

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Deposited on : 2018-03-27

Resolution : 1.91 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 (i) 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 (1)) were used in the production of this report:

MolProbity : 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

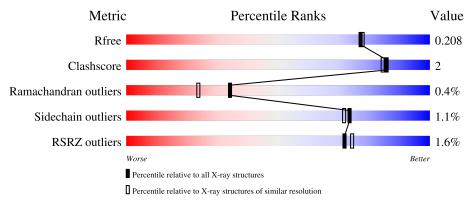
Validation Pipeline (wwPDB-VP) : 2.36

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 1.91 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 $(\# \mathrm{Entries})$	Similar resolution $(\#\text{Entries, resolution range}(\mathring{\mathbf{A}}))$
R_{free}	130704	7937 (1.94-1.90)
Clashscore	141614	8644 (1.94-1.90)
Ramachandran outliers	138981	8530 (1.94-1.90)
Sidechain outliers	138945	8530 (1.94-1.90)
RSRZ outliers	127900	7793 (1.94-1.90)

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	100	93%	7%
2	В	122	93%	7%
3	С	570	93%	6% •



2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 6752 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	Λ	100	Total	С	N	О	S	0	6	0
1	Λ	100	822	517	138	160	7			U

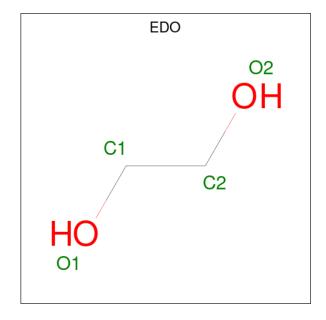
• Molecule 2 is a protein called Urease subunit beta.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	В	122	Total	С	N	О	S	0	1	0
_		122	958	592	172	193	1		1	

• Molecule 3 is a protein called Urease subunit alpha.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
3	С	570	Total 4422	C 2777	N 762	O 857	S 26	0	15	0

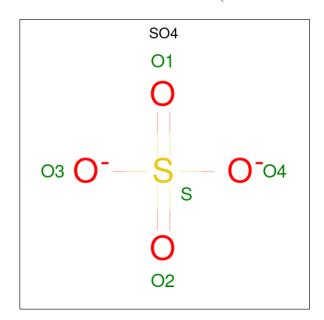
• Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).





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

 \bullet Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$



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

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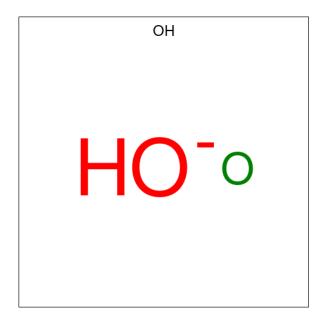
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	Total O S 5 4 1	0	0
5	С	1	Total O S 5 4 1	0	0
5	С	1	Total O S 5 4 1	0	0
5	C	1	Total O S 5 4 1	0	0

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

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

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



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

• Molecule 8 is SILVER ION (three-letter code: AG) (formula: Ag).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	С	2	Total Ag 2 2	0	0



• Molecule 9 is water.

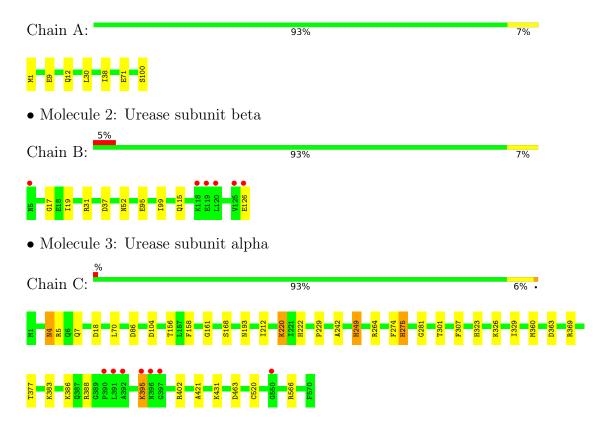
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	65	Total O 65 65	0	0
9	В	77	Total O 77 77	0	0
9	С	333	Total O 333 333	0	0



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: Urease subunit gamma





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 63 2 2	Depositor
Cell constants	131.09Å 131.09Å 189.06Å	Donogitor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	45.43 - 1.91	Depositor
Resolution (A)	45.43 - 1.91	EDS
% Data completeness	99.7 (45.43-1.91)	Depositor
(in resolution range)	99.7 (45.43-1.91)	EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.98 (at 1.91Å)	Xtriage
Refinement program	REFMAC 5.8.0049	Depositor
D D.	0.167 , 0.209	Depositor
R, R_{free}	0.167 , 0.208	DCC
R_{free} test set	3753 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	24.9	Xtriage
Anisotropy	0.795	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36, 42.3	EDS
L-test for twinning ²	$ < L >=0.52, < L^2>=0.36$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6752	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.58% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities estimated from amplitudes.

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: KCX, CXM, OH, SO4, EDO, AG, NI

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	Bo	nd lengths	ths Bond an	
MIOI		RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.66	0/828	0.72	0/1113
2	В	0.67	0/970	0.80	1/1304 (0.1%)
3	С	0.69	1/4515 (0.0%)	0.81	6/6113 (0.1%)
All	All	0.68	1/6313 (0.0%)	0.79	7/8530 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
3	С	520	CYS	CB-SG	-6.34	1.71	1.82

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
3	С	520	CYS	CB-CA-C	-7.13	96.15	110.40
3	С	388	ARG	NE-CZ-NH1	6.02	123.31	120.30
3	С	566	ARG	NE-CZ-NH2	-5.95	117.33	120.30
3	С	463	ASP	CB-CG-OD1	5.85	123.56	118.30
3	С	369	ARG	NE-CZ-NH2	-5.82	117.39	120.30

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	822	0	837	3	0
2	В	958	0	941	6	0
3	С	4422	0	4414	20	0
4	A	12	0	18	0	0
4	В	4	0	6	0	0
4	С	24	0	36	1	0
5	A	5	0	0	1	0
5	В	10	0	0	1	0
5	С	15	0	0	0	0
6	С	2	0	0	0	0
7	С	1	0	0	0	0
8	С	2	0	0	0	0
9	A	65	0	0	0	0
9	В	77	0	0	1	0
9	С	333	0	0	1	0
All	All	6752	0	6252	26	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.

The worst 5 of 26 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
2:B:17:GLY:O	3:C:5[A]:ARG:HG2	1.96	0.65
1:A:71:GLU:N	5:A:204:SO4:O2	2.24	0.64
2:B:115:GLN:NE2	9:B:302:HOH:O	2.34	0.59
3:C:4:ASN:ND2	3:C:7:GLN:H	2.02	0.56
2:B:31:ARG:N	5:B:202:SO4:O3	2.39	0.55

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	Perce	ntiles
1	A	104/100 (104%)	104 (100%)	0	0	100	100
2	В	121/122 (99%)	115 (95%)	4 (3%)	2 (2%)	9	2
3	С	582/570 (102%)	560 (96%)	21 (4%)	1 (0%)	47	38
All	All	807/792 (102%)	779 (96%)	25 (3%)	3 (0%)	34	24

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	В	99	ILE
2	В	52	ASN
3	С	275	HIS

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	89/83 (107%)	88 (99%)	1 (1%)	73	72	
2	В	102/101 (101%)	102 (100%)	0	100	100	
3	С	472/458 (103%)	466 (99%)	6 (1%)	69	66	
All	All	663/642 (103%)	656 (99%)	7 (1%)	73	72	

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	С	249	HIS
3	С	323	HIS
3	С	402	ARG
3	С	395	LYS
3	С	158	PHE

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



Mol	Chain	Res	Type
3	С	4	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

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	Tuno	Chain	Pag	Tiple	B	ond leng	$_{ m gths}$	В	ond ang	gles
MIOI	Type	Chain	Res	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	KCX	С	220	6,3	9,11,12	0.71	0	5,12,14	1.32	1 (20%)
1	CXM	A	1	1	8,10,11	2.83	1 (12%)	7,11,13	1.54	1 (14%)

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	С	220	6,3	-	0/9/10/12	-
1	CXM	A	1	1	-	3/9/10/12	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\textup{\AA})$	$\operatorname{Ideal}(\text{\AA})$
1	A	1	CXM	ON1-CN	7.52	1.35	1.21

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
1	A	1	CXM	O-C-CA	-3.59	115.38	124.78
3	С	220	KCX	OQ1-CX-NZ	-2.39	121.26	124.96



There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	1	CXM	CB-CA-N-CN
1	A	1	CXM	ON1-CN-N-CA
1	A	1	CXM	C-CA-N-CN

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	С	220	KCX	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 21 ligands modelled in this entry, 4 are monoatomic and 1 is modelled with single atom - 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	Dog	Link	В	ond leng	$_{ m gths}$	Bond angles		
MIOI	Type	Chain	Res		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
5	SO4	A	204	-	4,4,4	0.43	0	6,6,6	0.47	0
4	EDO	A	203	-	3,3,3	0.84	0	2,2,2	0.24	0
4	EDO	С	605	-	3,3,3	0.36	0	2,2,2	0.63	0
4	EDO	A	202	-	3,3,3	0.57	0	2,2,2	0.77	0
4	EDO	С	609	-	3,3,3	0.37	0	2,2,2	0.81	0
5	SO4	В	202	-	4,4,4	0.34	0	6,6,6	0.21	0
4	EDO	С	606	-	3,3,3	0.43	0	2,2,2	0.43	0
5	SO4	В	203	-	4,4,4	0.33	0	6,6,6	0.27	0
5	SO4	С	610	-	4,4,4	0.34	0	6,6,6	0.29	0
5	SO4	С	612	-	4,4,4	0.67	0	6,6,6	0.65	0



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Mol	Mol Type Chain Res Link		Link	Bond lengths			Bond angles			
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EDO	В	201	-	3,3,3	0.58	0	2,2,2	0.32	0
5	SO4	С	611	-	4,4,4	0.59	0	6,6,6	0.50	0
4	EDO	A	201	-	3,3,3	0.70	0	2,2,2	0.04	0
4	EDO	С	608	-	3,3,3	0.47	0	2,2,2	0.88	0
4	EDO	С	604	-	3,3,3	0.42	0	2,2,2	0.69	0
4	EDO	С	607	-	3,3,3	0.37	0	2,2,2	0.65	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	A	203	-	-	0/1/1/1	-
4	EDO	С	605	-	-	0/1/1/1	-
4	EDO	A	202	-	-	0/1/1/1	-
4	EDO	С	609	-	-	1/1/1/1	-
4	EDO	С	606	-	-	0/1/1/1	-
4	EDO	В	201	-	-	0/1/1/1	-
4	EDO	A	201	-	-	0/1/1/1	-
4	EDO	С	608	-	-	1/1/1/1	-
4	EDO	С	604	-	-	0/1/1/1	-
4	EDO	С	607	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	С	609	EDO	O1-C1-C2-O2
4	С	608	EDO	O1-C1-C2-O2

There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	204	SO4	1	0
4	С	605	EDO	1	0
5	В	202	SO4	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, 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>	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	99/100 (99%)	-0.84	0 100 100	26, 30, 38, 54	0
2	В	122/122 (100%)	-0.27	6 (4%) 29 33	27, 33, 50, 77	0
3	С	569/570 (99%)	-0.53	7 (1%) 79 81	24, 29, 42, 78	0
All	All	790/792 (99%)	-0.53	13 (1%) 72 74	24, 30, 42, 78	0

The worst 5 of 13 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	126	GLU	4.7
3	С	396	ASN	4.1
2	В	120	LEU	3.7
2	В	125	VAL	3.3
2	В	119	GLU	2.8

6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
1	CXM	A	1	11/12	0.97	0.07	28,32,38,39	0
3	KCX	С	220	12/13	0.99	0.09	25,28,31,32	0

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	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
5	SO4	В	203	5/5	0.88	0.27	71,77,83,86	0
5	SO4	В	202	5/5	0.89	0.33	109,111,119,123	0
5	SO4	A	204	5/5	0.90	0.24	73,79,86,92	0
4	EDO	С	609	4/4	0.92	0.15	45,49,51,57	0
4	EDO	С	608	4/4	0.92	0.13	43,44,49,52	0
4	EDO	A	203	4/4	0.93	0.12	30,39,40,45	0
5	SO4	С	610	5/5	0.93	0.13	75,75,84,86	0
4	EDO	С	605	4/4	0.94	0.14	48,50,50,55	0
4	EDO	С	607	4/4	0.95	0.12	49,51,53,58	0
5	SO4	С	611	5/5	0.95	0.22	54,56,66,69	0
4	EDO	С	606	4/4	0.96	0.14	36,45,46,46	0
4	EDO	A	201	4/4	0.97	0.08	36,37,38,38	0
4	EDO	В	201	4/4	0.97	0.08	37,37,38,39	0
4	EDO	A	202	4/4	0.98	0.08	32,33,33,33	0
4	EDO	С	604	4/4	0.98	0.12	34,35,37,38	0
5	SO4	С	612	5/5	0.99	0.07	33,34,36,36	0
7	ОН	С	603	1/1	0.99	0.08	26,26,26,26	0
6	NI	С	602	1/1	1.00	0.07	29,29,29,29	0
6	NI	С	601	1/1	1.00	0.08	30,30,30,30	0
8	AG	С	613	1/1	1.00	0.04	35,35,35,35	0
8	AG	С	614	1/1	1.00	0.05	36,36,36,36	0

6.5 Other polymers (i)

There are no such residues in this entry.

