



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 02:23 AM GMT

PDB ID : 2GXF
Title : X-Ray Crystal Structure of Protein YybH from Bacillus subtilis. Northeast Structural Genomics Consortium Target SR506.
Authors : Forouhar, F.; Abashidze, M.; Jayaraman, S.; Cunningham, K.; Fang, Y.; Ma, L.-C.; Xiao, R.; Acton, T.B.; Montelione, G.T.; Hunt, J.F.; Tong, L.; Northeast Structural Genomics Consortium (NESG)
Deposited on : 2006-05-08
Resolution : 3.10 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

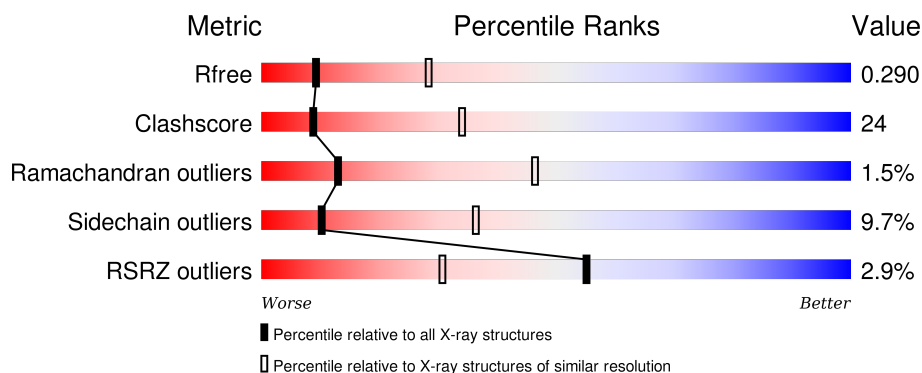
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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}	91344	1114 (3.14-3.06)
Clashscore	102246	1222 (3.14-3.06)
Ramachandran outliers	100387	1174 (3.14-3.06)
Sidechain outliers	100360	1174 (3.14-3.06)
RSRZ outliers	91569	1119 (3.14-3.06)

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. 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	142	<div> <div>5%</div> <div>47% 31% 5% • 16%</div> </div>
1	B	142	<div> <div>%</div> <div>47% 31% 6% 16%</div> </div>
1	C	142	<div> <div>2%</div> <div>51% 27% • • 16%</div> </div>
1	D	142	<div> <div>%</div> <div>50% 30% • 16%</div> </div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3845 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 Hypothetical protein yybH.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	119	Total	C	N	O	S	Se	0	0	0
			941	600	153	181	2	5			
1	B	119	Total	C	N	O	S	Se	0	0	0
			941	600	153	181	2	5			
1	C	119	Total	C	N	O	S	Se	0	0	0
			941	600	153	181	2	5			
1	D	119	Total	C	N	O	S	Se	0	0	0
			941	600	153	181	2	5			

There are 72 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	MET	MODIFIED RESIDUE	UNP P37496
A	25	MSE	MET	MODIFIED RESIDUE	UNP P37496
A	40	MSE	MET	MODIFIED RESIDUE	UNP P37496
A	70	MSE	MET	MODIFIED RESIDUE	UNP P37496
A	98	MSE	MET	MODIFIED RESIDUE	UNP P37496
A	130	MSE	-	CLONING ARTIFACT	UNP P37496
A	131	ALA	-	CLONING ARTIFACT	UNP P37496
A	132	GLY	-	CLONING ARTIFACT	UNP P37496
A	133	ASP	-	CLONING ARTIFACT	UNP P37496
A	134	PRO	-	CLONING ARTIFACT	UNP P37496
A	135	LEU	-	CLONING ARTIFACT	UNP P37496
A	136	GLU	-	CLONING ARTIFACT	UNP P37496
A	137	HIS	-	EXPRESSION TAG	UNP P37496
A	138	HIS	-	EXPRESSION TAG	UNP P37496
A	139	HIS	-	EXPRESSION TAG	UNP P37496
A	140	HIS	-	EXPRESSION TAG	UNP P37496
A	141	HIS	-	EXPRESSION TAG	UNP P37496
A	142	HIS	-	EXPRESSION TAG	UNP P37496
B	1	MSE	MET	MODIFIED RESIDUE	UNP P37496
B	25	MSE	MET	MODIFIED RESIDUE	UNP P37496
B	40	MSE	MET	MODIFIED RESIDUE	UNP P37496

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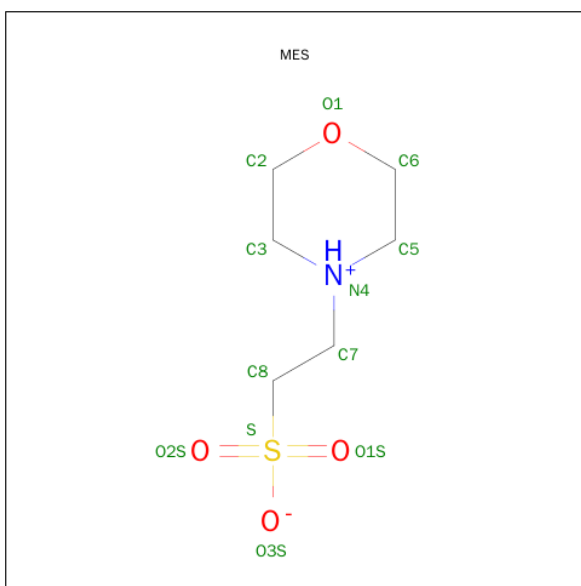
Chain	Residue	Modelled	Actual	Comment	Reference
B	70	MSE	MET	MODIFIED RESIDUE	UNP P37496
B	98	MSE	MET	MODIFIED RESIDUE	UNP P37496
B	130	MSE	-	CLONING ARTIFACT	UNP P37496
B	131	ALA	-	CLONING ARTIFACT	UNP P37496
B	132	GLY	-	CLONING ARTIFACT	UNP P37496
B	133	ASP	-	CLONING ARTIFACT	UNP P37496
B	134	PRO	-	CLONING ARTIFACT	UNP P37496
B	135	LEU	-	CLONING ARTIFACT	UNP P37496
B	136	GLU	-	CLONING ARTIFACT	UNP P37496
B	137	HIS	-	EXPRESSION TAG	UNP P37496
B	138	HIS	-	EXPRESSION TAG	UNP P37496
B	139	HIS	-	EXPRESSION TAG	UNP P37496
B	140	HIS	-	EXPRESSION TAG	UNP P37496
B	141	HIS	-	EXPRESSION TAG	UNP P37496
B	142	HIS	-	EXPRESSION TAG	UNP P37496
C	1	MSE	MET	MODIFIED RESIDUE	UNP P37496
C	25	MSE	MET	MODIFIED RESIDUE	UNP P37496
C	40	MSE	MET	MODIFIED RESIDUE	UNP P37496
C	70	MSE	MET	MODIFIED RESIDUE	UNP P37496
C	98	MSE	MET	MODIFIED RESIDUE	UNP P37496
C	130	MSE	-	CLONING ARTIFACT	UNP P37496
C	131	ALA	-	CLONING ARTIFACT	UNP P37496
C	132	GLY	-	CLONING ARTIFACT	UNP P37496
C	133	ASP	-	CLONING ARTIFACT	UNP P37496
C	134	PRO	-	CLONING ARTIFACT	UNP P37496
C	135	LEU	-	CLONING ARTIFACT	UNP P37496
C	136	GLU	-	CLONING ARTIFACT	UNP P37496
C	137	HIS	-	EXPRESSION TAG	UNP P37496
C	138	HIS	-	EXPRESSION TAG	UNP P37496
C	139	HIS	-	EXPRESSION TAG	UNP P37496
C	140	HIS	-	EXPRESSION TAG	UNP P37496
C	141	HIS	-	EXPRESSION TAG	UNP P37496
C	142	HIS	-	EXPRESSION TAG	UNP P37496
D	1	MSE	MET	MODIFIED RESIDUE	UNP P37496
D	25	MSE	MET	MODIFIED RESIDUE	UNP P37496
D	40	MSE	MET	MODIFIED RESIDUE	UNP P37496
D	70	MSE	MET	MODIFIED RESIDUE	UNP P37496
D	98	MSE	MET	MODIFIED RESIDUE	UNP P37496
D	130	MSE	-	CLONING ARTIFACT	UNP P37496
D	131	ALA	-	CLONING ARTIFACT	UNP P37496
D	132	GLY	-	CLONING ARTIFACT	UNP P37496
D	133	ASP	-	CLONING ARTIFACT	UNP P37496

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Chain	Residue	Modelled	Actual	Comment	Reference
D	134	PRO	-	CLONING ARTIFACT	UNP P37496
D	135	LEU	-	CLONING ARTIFACT	UNP P37496
D	136	GLU	-	CLONING ARTIFACT	UNP P37496
D	137	HIS	-	EXPRESSION TAG	UNP P37496
D	138	HIS	-	EXPRESSION TAG	UNP P37496
D	139	HIS	-	EXPRESSION TAG	UNP P37496
D	140	HIS	-	EXPRESSION TAG	UNP P37496
D	141	HIS	-	EXPRESSION TAG	UNP P37496
D	142	HIS	-	EXPRESSION TAG	UNP P37496

- Molecule 2 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (three-letter code: MES) (formula: C₆H₁₃NO₄S).



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

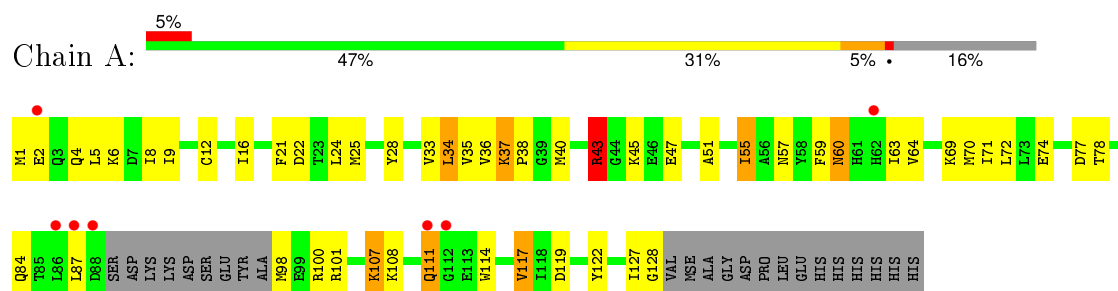
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	10	Total 10	O 10	0	0
3	B	10	Total 10	O 10	0	0
3	C	8	Total 8	O 8	0	0
3	D	5	Total 5	O 5	0	0

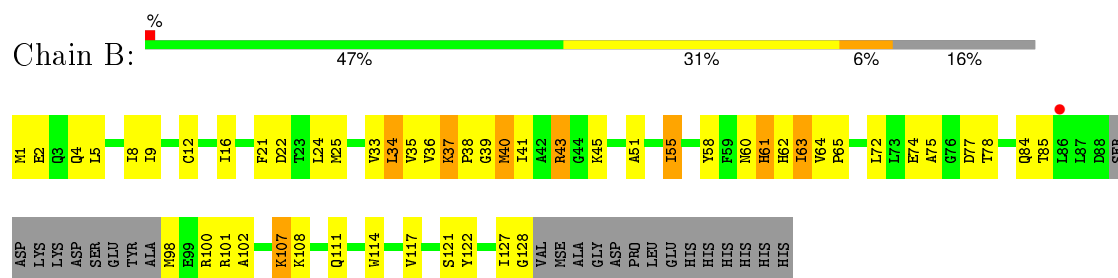
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

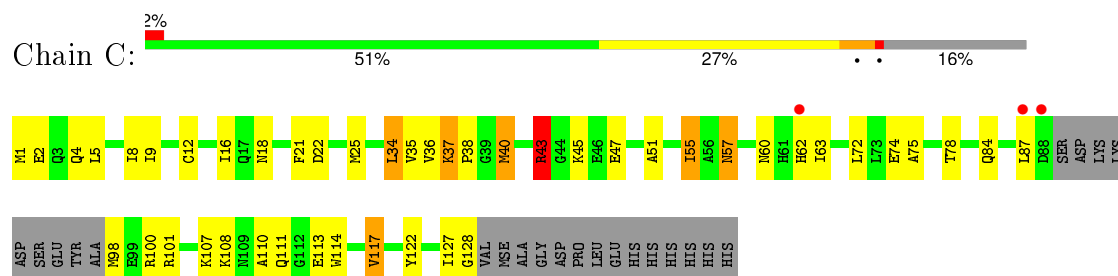
• Molecule 1: Hypothetical protein ybH



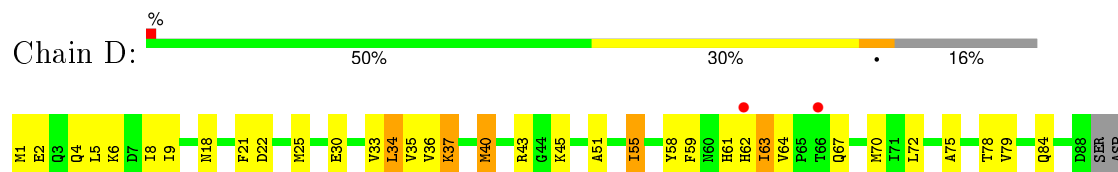
• Molecule 1: Hypothetical protein ybH



• Molecule 1: Hypothetical protein ybH



• Molecule 1: Hypothetical protein ybH



LYS	LYS	ASP	SER	GLU	TYR	ALA	998	E99	R100	R101	A102	K107	K108	Q111	H114	V117	I118	D119	N120	S121	L126	I127	G128	VAL	MSE	ALA	GLY	ASP	PRO	LEU	GLU	HIS	HIS	HIS	HIS	HIS
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4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	88.25Å 88.25Å 82.84Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.42 – 3.10 29.42 – 3.10	Depositor EDS
% Data completeness (in resolution range)	85.7 (29.42-3.10) 98.4 (29.42-3.10)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	0.08	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.56 (at 3.11Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.259 , 0.286 0.277 , 0.290	Depositor DCC
R_{free} test set	1096 reflections (9.56%)	DCC
Wilson B-factor (Å ²)	65.7	Xtriage
Anisotropy	0.169	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 44.8	EDS
Estimated twinning fraction	0.038 for h,-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 22632 reflections	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	3845	wwPDB-VP
Average B, all atoms (Å ²)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.04% 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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

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: 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	0.47	0/951	1.17	6/1278 (0.5%)
1	B	0.46	0/951	0.91	5/1278 (0.4%)
1	C	0.45	0/951	0.89	5/1278 (0.4%)
1	D	0.45	0/951	0.91	5/1278 (0.4%)
All	All	0.46	0/3804	0.98	21/5112 (0.4%)

There are no bond length outliers.

The worst 5 of 21 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	100	ARG	NE-CZ-NH1	-20.04	110.28	120.30
1	A	100	ARG	NE-CZ-NH2	18.09	129.34	120.30
1	D	43	ARG	NE-CZ-NH2	-15.91	112.35	120.30
1	A	43	ARG	NE-CZ-NH1	-14.90	112.85	120.30
1	B	43	ARG	NE-CZ-NH2	-14.87	112.87	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	941	0	946	72	0
1	B	941	0	946	48	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	941	0	946	57	0
1	D	941	0	946	43	0
2	A	12	0	13	2	0
2	B	12	0	13	0	0
2	C	12	0	13	2	0
2	D	12	0	13	2	0
3	A	10	0	0	1	0
3	B	10	0	0	2	0
3	C	8	0	0	1	0
3	D	5	0	0	0	0
All	All	3845	0	3836	180	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 24.

The worst 5 of 180 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:63:ILE:HD12	1:A:87:LEU:HD11	1.30	1.09
1:C:63:ILE:HD12	1:C:87:LEU:HD11	1.44	1.00
1:C:5:LEU:HD12	1:C:72:LEU:HD21	1.48	0.96
1:C:57:ASN:HD22	1:C:57:ASN:N	1.63	0.94
1:A:69:LYS:HZ1	1:C:108:LYS:CD	1.86	0.89

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	115/142 (81%)	106 (92%)	8 (7%)	1 (1%)	21 61
1	B	115/142 (81%)	103 (90%)	9 (8%)	3 (3%)	7 32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	115/142 (81%)	103 (90%)	11 (10%)	1 (1%)	21	61
1	D	115/142 (81%)	104 (90%)	9 (8%)	2 (2%)	11	43
All	All	460/568 (81%)	416 (90%)	37 (8%)	7 (2%)	13	46

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	61	HIS
1	D	61	HIS
1	B	63	ILE
1	A	55	ILE
1	B	55	ILE

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	103/117 (88%)	93 (90%)	10 (10%)	10	36
1	B	103/117 (88%)	94 (91%)	9 (9%)	13	44
1	C	103/117 (88%)	93 (90%)	10 (10%)	10	36
1	D	103/117 (88%)	92 (89%)	11 (11%)	8	31
All	All	412/468 (88%)	372 (90%)	40 (10%)	10	36

5 of 40 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	117	VAL
1	C	40	MSE
1	D	78	THR
1	C	34	LEU
1	C	43	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 15 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	26	ASN
1	B	60	ASN
1	D	3	GLN
1	B	18	ASN
1	C	57	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](#)

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

4 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	MES	A	201	-	11,12,12	3.12	4 (36%)	14,16,16	1.30	1 (7%)
2	MES	B	201	-	11,12,12	3.26	4 (36%)	14,16,16	0.92	0
2	MES	C	201	-	11,12,12	3.15	4 (36%)	14,16,16	1.18	2 (14%)
2	MES	D	201	-	11,12,12	3.13	4 (36%)	14,16,16	1.30	1 (7%)

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
2	MES	A	201	-	-	0/6/14/14	0/1/1/1
2	MES	B	201	-	-	0/6/14/14	0/1/1/1
2	MES	C	201	-	-	0/6/14/14	0/1/1/1
2	MES	D	201	-	-	0/6/14/14	0/1/1/1

The worst 5 of 16 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	201	MES	C5-N4	2.17	1.52	1.46
2	A	201	MES	C5-N4	2.59	1.54	1.46
2	C	201	MES	C5-N4	2.61	1.54	1.46
2	B	201	MES	C5-N4	2.68	1.54	1.46
2	B	201	MES	O3S-S	3.99	1.56	1.46

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	201	MES	O1S-S-C8	2.24	108.82	106.91
2	C	201	MES	O2S-S-C8	2.42	108.97	106.91
2	D	201	MES	O1S-S-C8	2.79	109.28	106.91
2	A	201	MES	O2S-S-C8	2.90	109.38	106.91

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	201	MES	2	0
2	C	201	MES	2	0
2	D	201	MES	2	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, 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	114/142 (80%)	0.02	7 (6%) 25 10	20, 52, 74, 89	0
1	B	114/142 (80%)	-0.04	1 (0%) 85 72	21, 52, 79, 88	0
1	C	114/142 (80%)	-0.05	3 (2%) 59 35	19, 52, 77, 94	0
1	D	114/142 (80%)	0.11	2 (1%) 71 50	21, 54, 90, 104	0
All	All	456/568 (80%)	0.01	13 (2%) 55 31	19, 53, 80, 104	0

The worst 5 of 13 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	88	ASP	5.0
1	C	87	LEU	3.4
1	A	62	HIS	3.1
1	C	62	HIS	3.0
1	A	112	GLY	2.8

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 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
2	MES	D	201	12/12	0.92	0.27	1.03	58,60,69,69	0
2	MES	C	201	12/12	0.93	0.21	0.79	33,37,48,48	0
2	MES	A	201	12/12	0.94	0.22	0.13	24,29,36,37	0
2	MES	B	201	12/12	0.94	0.18	-0.20	28,31,34,34	0

6.5 Other polymers [i](#)

There are no such residues in this entry.