



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 24, 2024 – 08:45 AM EDT

PDB ID : 6A2R  
Title : Mycobacterium tuberculosis LexA C-domain II  
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Deposited on : 2018-06-12  
Resolution : 2.25 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](mailto: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>.

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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	:	2.37.1
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)	:	2.37.1

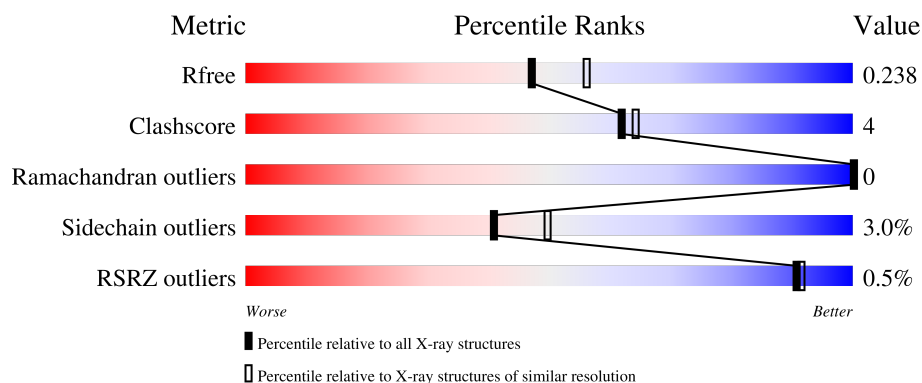
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*


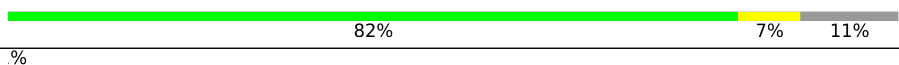
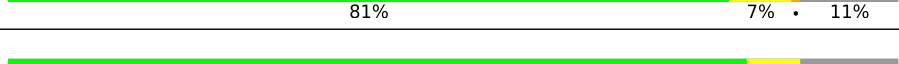
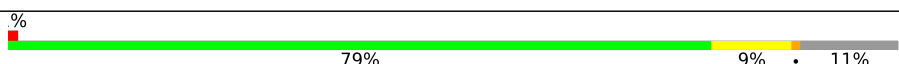

The reported resolution of this entry is 2.25 Å.

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	1377 (2.26-2.26)
Clashscore	141614	1487 (2.26-2.26)
Ramachandran outliers	138981	1449 (2.26-2.26)
Sidechain outliers	138945	1450 (2.26-2.26)
RSRZ outliers	127900	1356 (2.26-2.26)

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  $\geq 3$ , 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	111	
1	B	111	
1	C	111	
1	D	111	
1	E	111	

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Mol	Chain	Length	Quality of chain
1	F	111	<div><div></div><div>76%</div><div>13%</div><div>•</div><div>11%</div></div>

## 2 Entry composition [i](#)

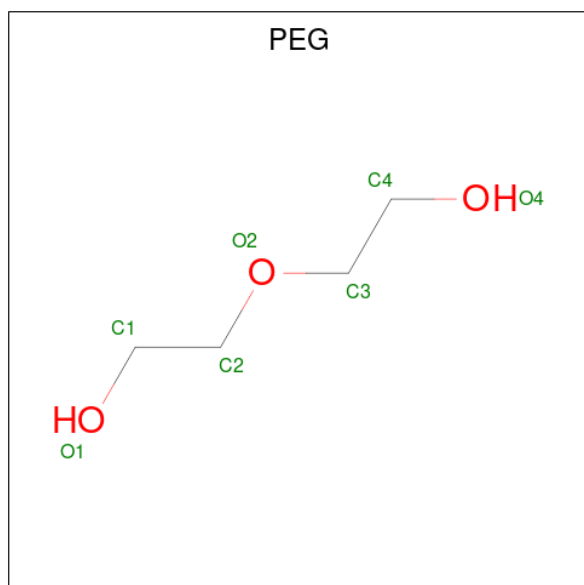
There are 3 unique types of molecules in this entry. The entry contains 4736 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 LexA repressor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	99	Total	C	N	O	S	0	1	0
			756	483	129	139	5			
1	B	99	Total	C	N	O	S	0	0	0
			742	476	124	137	5			
1	C	99	Total	C	N	O	S	0	0	0
			742	476	124	137	5			
1	D	99	Total	C	N	O	S	0	0	0
			748	479	127	137	5			
1	E	99	Total	C	N	O	S	0	0	0
			748	479	127	137	5			
1	F	99	Total	C	N	O	S	0	0	0
			748	479	127	137	5			

- Molecule 2 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C<sub>4</sub>H<sub>10</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			7	4	3		
2	C	1	Total	C	O	0	0
			7	4	3		

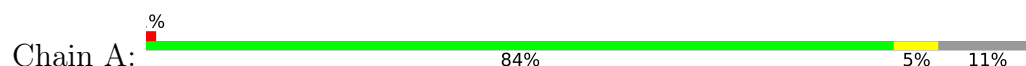
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	40	Total	O	0	0
			40	40		
3	B	43	Total	O	0	0
			43	43		
3	C	37	Total	O	0	0
			37	37		
3	D	40	Total	O	0	0
			40	40		
3	E	43	Total	O	0	0
			43	43		
3	F	35	Total	O	0	0
			35	35		

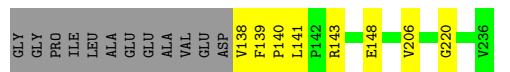
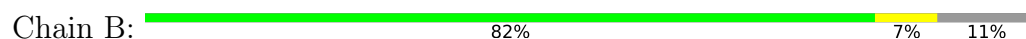
### 3 Residue-property plots [i](#)

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.

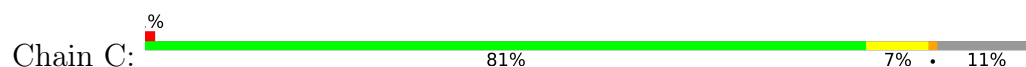
- Molecule 1: LexA repressor



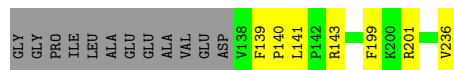
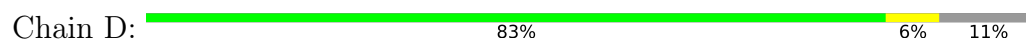
- Molecule 1: LexA repressor



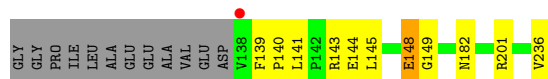
- Molecule 1: LexA repressor



- Molecule 1: LexA repressor



- Molecule 1: LexA repressor



- Molecule 1: LexA repressor

Chain F: 

76%

13%

•

11%

GLY	GLY	PRO	ILE	LEU	ALA	GLU	GLU	ALA	VAL	GLU	ASP	Y138	F139	P140	L141	P142	R143	E148	M182	I185	F199	R200	R201	Q205	V206	G220	V232	I233	R234	K235	Y236
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## 4 Data and refinement statistics

Property	Value	Source
Space group	P 31	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	74.83Å 74.83Å 116.03Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	37.41 – 2.25 37.42 – 2.25	Depositor EDS
% Data completeness (in resolution range)	100.0 (37.41-2.25) 100.0 (37.42-2.25)	Depositor EDS
$R_{merge}$	0.20	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.06 (at 2.24Å)	Xtriage
Refinement program	REFMAC 5.8.0222	Depositor
R, $R_{free}$	0.218 , 0.238 0.227 , 0.238	Depositor DCC
$R_{free}$ test set	1735 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	24.9	Xtriage
Anisotropy	0.416	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 0.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.40$ , $\langle L^2 \rangle = 0.23$	Xtriage
Estimated twinning fraction	0.459 for -h,-k,l 0.166 for h,-h-k,-l 0.165 for -k,-h,-l	Xtriage
Reported twinning fraction	0.525 for H, K, L 0.475 for -h,-k,l	Depositor
Outliers	0 of 34465 reflections	Xtriage
$F_o, F_c$ correlation	0.90	EDS
Total number of atoms	4736	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.45% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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 [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PEG, CME

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	0/759	0.59	0/1033
1	B	0.44	0/745	0.64	0/1015
1	C	0.45	0/745	0.55	0/1015
1	D	0.38	0/751	0.53	0/1022
1	E	0.44	0/751	0.55	0/1022
1	F	0.40	0/751	0.54	0/1022
All	All	0.44	0/4502	0.57	0/6129

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 [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	756	0	767	7	0
1	B	742	0	751	7	0
1	C	742	0	750	14	0
1	D	748	0	762	7	0
1	E	748	0	762	13	0
1	F	748	0	762	12	0
2	B	7	0	10	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	7	0	10	0	0
3	A	40	0	0	0	0
3	B	43	0	0	0	0
3	C	37	0	0	0	0
3	D	40	0	0	0	0
3	E	43	0	0	0	0
3	F	35	0	0	0	0
All	All	4736	0	4574	40	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 4.

All (40) 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:E:148:GLU:HG2	1:E:149:GLY:N	1.90	0.87
1:A:213:PRO:CG	1:C:204:GLY:HA3	2.07	0.84
1:A:213:PRO:CD	1:C:204:GLY:HA3	2.08	0.83
1:E:148:GLU:HG2	1:E:149:GLY:H	1.50	0.73
1:F:201:ARG:O	1:F:201:ARG:HG3	1.89	0.72
1:A:213:PRO:HD2	1:C:204:GLY:HA3	1.79	0.64
1:A:213:PRO:HG3	1:C:204:GLY:HA3	1.84	0.60
1:C:141:LEU:O	1:D:139:PHE:HD1	1.83	0.60
1:E:148:GLU:CG	1:E:149:GLY:N	2.65	0.59
1:A:141:LEU:O	1:B:139:PHE:HD1	1.86	0.59
1:E:236:VAL:HG11	1:F:185:ILE:HG13	1.84	0.58
1:F:199:PHE:HE2	1:F:201:ARG:HB3	1.69	0.58
1:C:141:LEU:O	1:D:139:PHE:CD1	2.59	0.55
1:D:199:PHE:HE2	1:D:201:ARG:HB2	1.72	0.55
1:C:143:ARG:HD3	1:D:139:PHE:HB2	1.89	0.53
1:A:139:PHE:HD1	1:B:141:LEU:O	1.93	0.52
1:B:138:VAL:HG23	1:B:138:VAL:O	2.09	0.52
1:C:143:ARG:NH2	1:E:182:ASN:HD22	2.08	0.52
1:E:139:PHE:HD1	1:F:141:LEU:O	1.92	0.51
1:F:199:PHE:CE2	1:F:201:ARG:HB3	2.46	0.51
1:E:139:PHE:CD1	1:F:141:LEU:O	2.64	0.50
1:C:143:ARG:NH1	1:C:147:GLY:O	2.45	0.50
1:F:206:VAL:HG23	1:F:220:GLY:HA3	1.95	0.47
1:E:145:LEU:HA	1:F:235:LYS:HD3	1.97	0.47
1:C:139:PHE:N	1:C:140:PRO:HD2	2.31	0.45
1:A:141:LEU:O	1:B:139:PHE:CD1	2.67	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:139:PHE:HB3	1:C:140:PRO:HD3	2.00	0.44
1:F:182:ASN:HB2	1:F:201:ARG:HG2	2.00	0.43
1:C:233:ILE:HD13	1:D:141:LEU:HD11	2.00	0.43
1:B:206:VAL:HB	1:B:220:GLY:HA3	2.01	0.42
1:E:143:ARG:HD2	1:E:143:ARG:HA	1.57	0.42
1:E:236:VAL:CG2	1:F:232:VAL:HG23	2.50	0.41
1:F:139:PHE:N	1:F:140:PRO:HD2	2.36	0.41
1:E:139:PHE:N	1:E:140:PRO:HD2	2.36	0.41
1:B:138:VAL:O	1:B:138:VAL:CG2	2.69	0.41
1:B:139:PHE:N	1:B:140:PRO:HD2	2.35	0.41
1:C:185:ILE:HG13	1:D:236:VAL:HG11	2.03	0.41
1:C:143:ARG:HH21	1:E:182:ASN:HD22	1.69	0.40
1:E:141:LEU:CD1	1:F:233:ILE:HD13	2.50	0.40
1:D:139:PHE:N	1:D:140:PRO:HD2	2.36	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	97/111 (87%)	94 (97%)	3 (3%)	0	100	100
1	B	96/111 (86%)	93 (97%)	3 (3%)	0	100	100
1	C	96/111 (86%)	94 (98%)	2 (2%)	0	100	100
1	D	96/111 (86%)	93 (97%)	3 (3%)	0	100	100
1	E	96/111 (86%)	93 (97%)	3 (3%)	0	100	100
1	F	96/111 (86%)	93 (97%)	3 (3%)	0	100	100
All	All	577/666 (87%)	560 (97%)	17 (3%)	0	100	100

There are no Ramachandran outliers to report.

### 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	80/87 (92%)	77 (96%)	3 (4%)	33	39
1	B	78/87 (90%)	76 (97%)	2 (3%)	46	55
1	C	78/87 (90%)	77 (99%)	1 (1%)	69	79
1	D	79/87 (91%)	78 (99%)	1 (1%)	69	79
1	E	79/87 (91%)	76 (96%)	3 (4%)	33	39
1	F	79/87 (91%)	75 (95%)	4 (5%)	24	25
All	All	473/522 (91%)	459 (97%)	14 (3%)	41	50

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	143	ARG
1	A	144	GLU
1	A	146	VAL
1	B	143	ARG
1	B	148	GLU
1	C	143	ARG
1	D	143	ARG
1	E	144	GLU
1	E	148	GLU
1	E	201	ARG
1	F	143	ARG
1	F	148	GLU
1	F	201	ARG
1	F	205	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

6 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
1	CME	E	167	1	8,9,10	0.80	0	5,9,11	0.73	0
1	CME	F	167	1	8,9,10	0.80	0	5,9,11	0.74	0
1	CME	B	167	1	8,9,10	0.79	0	5,9,11	0.75	0
1	CME	C	167	1	8,9,10	1.43	2 (25%)	5,9,11	2.05	1 (20%)
1	CME	D	167	1	8,9,10	0.83	0	5,9,11	0.82	0
1	CME	A	167	1	8,9,10	0.80	0	5,9,11	0.71	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
1	CME	E	167	1	-	2/5/8/10	-
1	CME	F	167	1	-	2/5/8/10	-
1	CME	B	167	1	-	2/5/8/10	-
1	CME	C	167	1	-	1/5/8/10	-
1	CME	D	167	1	-	2/5/8/10	-
1	CME	A	167	1	-	2/5/8/10	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	167	CME	CE-SD	-2.46	1.71	1.82
1	C	167	CME	CB-SG	-2.24	1.74	1.81

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	167	CME	OH-CZ-CE	-4.01	95.03	110.83

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	167	CME	CE-SD-SG-CB
1	A	167	CME	SD-CE-CZ-OH
1	B	167	CME	CE-SD-SG-CB
1	B	167	CME	SD-CE-CZ-OH
1	D	167	CME	CE-SD-SG-CB
1	D	167	CME	SD-CE-CZ-OH
1	E	167	CME	CE-SD-SG-CB
1	E	167	CME	SD-CE-CZ-OH
1	F	167	CME	CE-SD-SG-CB
1	F	167	CME	SD-CE-CZ-OH
1	C	167	CME	CE-SD-SG-CB

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

2 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	PEG	C	301	-	6,6,6	0.45	0	5,5,5	0.22	0
2	PEG	B	301	-	6,6,6	0.47	0	5,5,5	0.21	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
2	PEG	C	301	-	-	2/4/4/4	-
2	PEG	B	301	-	-	3/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	301	PEG	O1-C1-C2-O2
2	C	301	PEG	O2-C3-C4-O4
2	B	301	PEG	O2-C3-C4-O4
2	C	301	PEG	O1-C1-C2-O2
2	B	301	PEG	C4-C3-O2-C2

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](#)

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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	98/111 (88%)	-0.23	1 (1%) 82 84	21, 26, 34, 35	0
1	B	98/111 (88%)	-0.23	0 100 100	23, 31, 41, 46	0
1	C	98/111 (88%)	-0.19	1 (1%) 82 84	21, 27, 39, 42	0
1	D	98/111 (88%)	-0.41	0 100 100	18, 22, 36, 38	0
1	E	98/111 (88%)	-0.30	1 (1%) 82 84	18, 21, 45, 52	0
1	F	98/111 (88%)	-0.35	0 100 100	18, 24, 42, 51	0
All	All	588/666 (88%)	-0.28	3 (0%) 91 91	18, 25, 40, 52	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	138	VAL	4.2
1	A	202	ALA	3.1
1	C	202	ALA	2.2

### 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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	CME	E	167	10/11	0.92	0.13	21,22,24,24	0
1	CME	F	167	10/11	0.93	0.12	20,21,23,23	0
1	CME	B	167	10/11	0.94	0.14	30,31,34,34	0
1	CME	C	167	10/11	0.94	0.13	31,38,61,73	0
1	CME	A	167	10/11	0.95	0.12	28,28,29,30	0
1	CME	D	167	10/11	0.96	0.10	20,20,21,21	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<sup>th</sup> 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( $\text{\AA}^2$ )	Q<0.9
2	PEG	B	301	7/7	0.60	0.26	46,47,47,47	0
2	PEG	C	301	7/7	0.77	0.15	39,40,40,40	0

### 6.5 Other polymers [i](#)

There are no such residues in this entry.