



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 10:44 AM UTC

PDB ID : 4OIT / pdb\_00004oit  
Title : Structure, interactions and evolutionary implications of a domain-swapped lectin dimer from Mycobacterium smegmatis  
Authors : Patra, D.; Mishra, P.; Surolia, A.; Vijayan, M.  
Deposited on : 2014-01-20  
Resolution : 2.24 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](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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

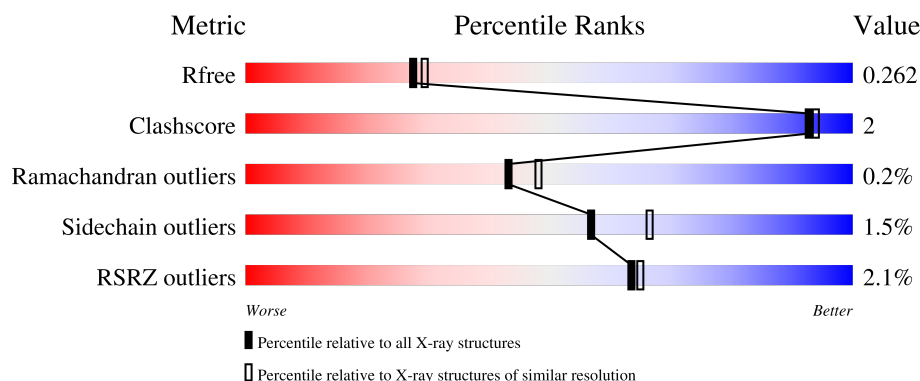
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.24 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))
$R_{free}$	180053	3416 (2.26-2.22)
Clashscore	190562	3556 (2.26-2.22)
Ramachandran outliers	187476	3500 (2.26-2.22)
Sidechain outliers	187428	3501 (2.26-2.22)
RSRZ outliers	180081	3415 (2.26-2.22)

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	113	<div> <div style="width: 100%; height: 10px; background-color: red; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">%</span> </div> <div style="width: 90%; height: 10px; background-color: green; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">90%</span> </div> <div style="width: 6%; height: 10px; background-color: yellow; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">• 6%</span> </div> </div>
1	B	113	<div> <div style="width: 3%; height: 10px; background-color: red; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">3%</span> </div> <div style="width: 91%; height: 10px; background-color: green; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">91%</span> </div> <div style="width: 5%; height: 10px; background-color: yellow; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">• 5%</span> </div> </div>
1	C	113	<div> <div style="width: 4%; height: 10px; background-color: red; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">4%</span> </div> <div style="width: 92%; height: 10px; background-color: green; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">92%</span> </div> <div style="width: 6%; height: 10px; background-color: yellow; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">•• 6%</span> </div> </div>
1	D	113	<div> <div style="width: 100%; height: 10px; background-color: red; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">%</span> </div> <div style="width: 87%; height: 10px; background-color: green; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">87%</span> </div> <div style="width: 7%; height: 10px; background-color: yellow; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">7%</span> </div> <div style="width: 6%; height: 10px; background-color: grey; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">6%</span> </div> </div>

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3450 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 LysM domain protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	A	106	Total	C	N	O	0	0	0
			793	495	139	159			
1	B	107	Total	C	N	O	0	0	0
			806	502	138	166			
1	C	106	Total	C	N	O	0	0	0
			788	494	137	157			
1	D	106	Total	C	N	O	0	0	0
			801	500	140	161			

There are 32 discrepancies between the modelled and reference sequences:

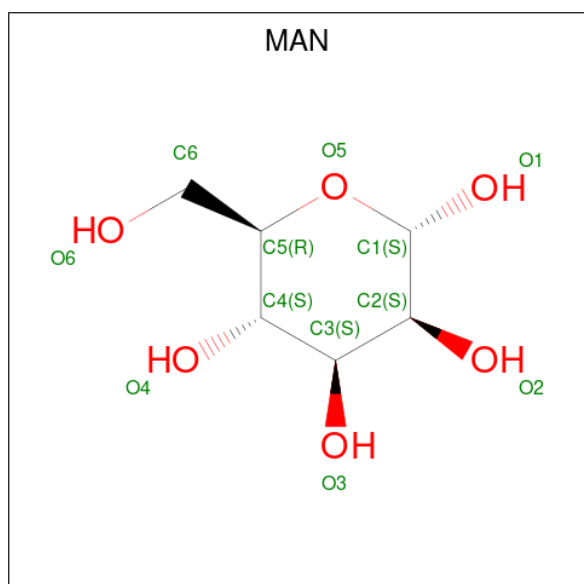
Chain	Residue	Modelled	Actual	Comment	Reference
A	106	LEU	-	expression tag	UNP A0QYH7
A	107	GLU	-	expression tag	UNP A0QYH7
A	108	HIS	-	expression tag	UNP A0QYH7
A	109	HIS	-	expression tag	UNP A0QYH7
A	110	HIS	-	expression tag	UNP A0QYH7
A	111	HIS	-	expression tag	UNP A0QYH7
A	112	HIS	-	expression tag	UNP A0QYH7
A	113	HIS	-	expression tag	UNP A0QYH7
B	106	LEU	-	expression tag	UNP A0QYH7
B	107	GLU	-	expression tag	UNP A0QYH7
B	108	HIS	-	expression tag	UNP A0QYH7
B	109	HIS	-	expression tag	UNP A0QYH7
B	110	HIS	-	expression tag	UNP A0QYH7
B	111	HIS	-	expression tag	UNP A0QYH7
B	112	HIS	-	expression tag	UNP A0QYH7
B	113	HIS	-	expression tag	UNP A0QYH7
C	106	LEU	-	expression tag	UNP A0QYH7
C	107	GLU	-	expression tag	UNP A0QYH7
C	108	HIS	-	expression tag	UNP A0QYH7
C	109	HIS	-	expression tag	UNP A0QYH7
C	110	HIS	-	expression tag	UNP A0QYH7

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Chain	Residue	Modelled	Actual	Comment	Reference
C	111	HIS	-	expression tag	UNP A0QYH7
C	112	HIS	-	expression tag	UNP A0QYH7
C	113	HIS	-	expression tag	UNP A0QYH7
D	106	LEU	-	expression tag	UNP A0QYH7
D	107	GLU	-	expression tag	UNP A0QYH7
D	108	HIS	-	expression tag	UNP A0QYH7
D	109	HIS	-	expression tag	UNP A0QYH7
D	110	HIS	-	expression tag	UNP A0QYH7
D	111	HIS	-	expression tag	UNP A0QYH7
D	112	HIS	-	expression tag	UNP A0QYH7
D	113	HIS	-	expression tag	UNP A0QYH7

- Molecule 2 is alpha-D-mannopyranose (CCD ID: MAN) (formula: C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>).



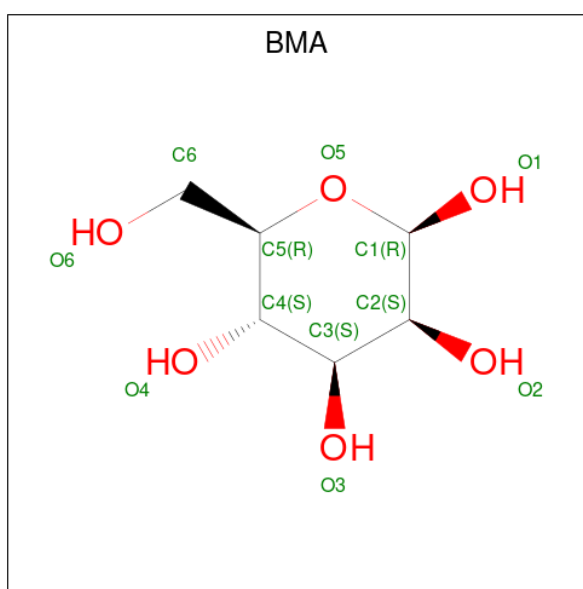
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			12	6	6		
2	A	1	Total	C	O	0	0
			12	6	6		
2	A	1	Total	C	O	0	0
			12	6	6		
2	B	1	Total	C	O	0	0
			12	6	6		
2	C	1	Total	C	O	0	0
			12	6	6		
2	C	1	Total	C	O	0	0
			12	6	6		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	C	1	Total	C	O	0	0
			12	6	6		
2	D	1	Total	C	O	0	0
			12	6	6		
2	D	1	Total	C	O	0	0
			12	6	6		
2	D	1	Total	C	O	0	0
			12	6	6		

- Molecule 3 is beta-D-mannopyranose (CCD ID: BMA) (formula:  $C_6H_{12}O_6$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			12	6	6		

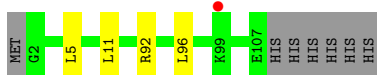
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	35	Total	O	0	0
			35	35		
4	B	31	Total	O	0	0
			31	31		
4	C	32	Total	O	0	0
			32	32		
4	D	32	Total	O	0	0
			32	32		

### 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.

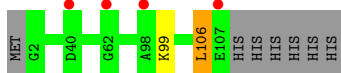
- Molecule 1: LysM domain protein



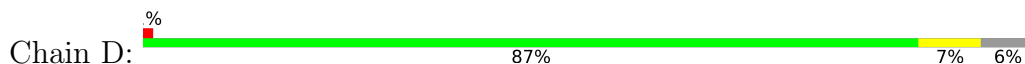
- Molecule 1: LysM domain protein



- Molecule 1: LysM domain protein



- Molecule 1: LysM domain protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	47.03Å 80.08Å 56.91Å 90.00° 105.98° 90.00°	Depositor
Resolution (Å)	40.00 – 2.24 40.00 – 2.24	Depositor EDS
% Data completeness (in resolution range)	98.7 (40.00-2.24) 98.7 (40.00-2.24)	Depositor EDS
$R_{merge}$	0.11	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.91 (at 2.24Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, $R_{free}$	0.220 , 0.261 0.225 , 0.262	Depositor DCC
$R_{free}$ test set	993 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	24.8	Xtriage
Anisotropy	0.510	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.39 , 32.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.45$ , $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	3450	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.92% 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: BMA, MAN

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	0.41	0/806	0.64	0/1099
1	B	0.42	0/819	0.62	0/1115
1	C	0.43	0/801	0.66	0/1092
1	D	0.43	0/814	0.63	0/1108
All	All	0.42	0/3240	0.64	0/4414

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	793	0	755	1	0
1	B	806	0	766	3	0
1	C	788	0	753	1	0
1	D	801	0	770	6	0
2	A	36	0	36	0	0
2	B	12	0	12	0	0
2	C	36	0	36	0	0
2	D	36	0	36	0	0
3	B	12	0	11	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	35	0	0	0	0
4	B	31	0	0	0	0
4	C	32	0	0	0	0
4	D	32	0	0	0	0
All	All	3450	0	3175	10	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 10 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:D:76:THR:HG1	1:D:104:TRP:CG	2.11	0.69
1:D:54:VAL:HG11	1:D:69:ALA:HB2	1.76	0.68
1:B:54:VAL:HG11	1:B:69:ALA:HB2	1.83	0.60
1:D:76:THR:HG1	1:D:104:TRP:CD1	2.28	0.51
1:C:106:LEU:HD21	1:D:44:TRP:CD2	2.48	0.48

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	104/113 (92%)	101 (97%)	3 (3%)	0	100	100
1	B	105/113 (93%)	101 (96%)	3 (3%)	1 (1%)	12	9
1	C	104/113 (92%)	102 (98%)	2 (2%)	0	100	100
1	D	104/113 (92%)	102 (98%)	2 (2%)	0	100	100
All	All	417/452 (92%)	406 (97%)	10 (2%)	1 (0%)	43	48

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	39	ARG

### 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	80/93 (86%)	78 (98%)	2 (2%)	42	50
1	B	83/93 (89%)	83 (100%)	0	100	100
1	C	79/93 (85%)	77 (98%)	2 (2%)	42	50
1	D	82/93 (88%)	81 (99%)	1 (1%)	63	72
All	All	324/372 (87%)	319 (98%)	5 (2%)	57	66

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	92	ARG
1	A	96	LEU
1	C	99	LYS
1	C	106	LEU
1	D	57	GLU

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	18	GLN

### 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 [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

11 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	MAN	D	203	-	12,12,12	0.68	0	17,17,17	1.60	3 (17%)
2	MAN	A	203	-	12,12,12	0.51	0	17,17,17	0.84	0
2	MAN	D	202	-	12,12,12	0.51	0	17,17,17	0.64	0
2	MAN	C	201	-	12,12,12	0.67	0	17,17,17	2.42	3 (17%)
2	MAN	A	202	-	12,12,12	0.65	0	17,17,17	1.65	2 (11%)
2	MAN	D	201	-	12,12,12	0.47	0	17,17,17	1.31	2 (11%)
2	MAN	C	203	-	12,12,12	0.52	0	17,17,17	0.80	0
2	MAN	A	201	-	12,12,12	0.54	0	17,17,17	0.81	0
2	MAN	C	202	-	12,12,12	0.70	0	17,17,17	1.90	2 (11%)
3	BMA	B	202	-	12,12,12	0.84	1 (8%)	17,17,17	2.71	6 (35%)
2	MAN	B	201	-	12,12,12	0.50	0	17,17,17	0.88	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	MAN	D	203	-	-	0/2/22/22	0/1/1/1
2	MAN	A	203	-	-	0/2/22/22	0/1/1/1
2	MAN	D	202	-	-	0/2/22/22	0/1/1/1
2	MAN	C	201	-	-	2/2/22/22	0/1/1/1
2	MAN	A	202	-	-	2/2/22/22	0/1/1/1
2	MAN	D	201	-	-	0/2/22/22	0/1/1/1
2	MAN	C	203	-	-	0/2/22/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MAN	A	201	-	-	1/2/22/22	0/1/1/1
2	MAN	C	202	-	-	2/2/22/22	0/1/1/1
3	BMA	B	202	-	-	1/2/22/22	0/1/1/1
2	MAN	B	201	-	-	0/2/22/22	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	202	BMA	O1-C1	2.17	1.46	1.39

The worst 5 of 18 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	202	BMA	O5-C1-C2	8.00	124.36	110.30
2	C	201	MAN	O1-C1-O5	7.38	132.34	110.41
2	C	202	MAN	O1-C1-O5	6.95	131.04	110.41
2	C	201	MAN	O5-C1-C2	-5.93	99.87	110.30
2	A	202	MAN	O1-C1-O5	5.18	125.78	110.41

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	202	MAN	O5-C5-C6-O6
2	A	202	MAN	C4-C5-C6-O6
2	A	202	MAN	O5-C5-C6-O6
2	C	202	MAN	C4-C5-C6-O6
3	B	202	BMA	C4-C5-C6-O6

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	106/113 (93%)	0.34	1 (0%) 81 82	20, 25, 35, 40	0
1	B	107/113 (94%)	0.38	3 (2%) 55 55	21, 26, 34, 46	0
1	C	106/113 (93%)	0.35	4 (3%) 44 43	19, 25, 33, 41	0
1	D	106/113 (93%)	0.31	1 (0%) 81 82	19, 24, 30, 42	0
All	All	425/452 (94%)	0.34	9 (2%) 63 65	19, 25, 34, 46	0

The worst 5 of 9 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	107	GLU	3.6
1	B	108	HIS	3.3
1	B	40	ASP	2.7
1	C	40	ASP	2.7
1	D	21	ASN	2.5

### 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 oligosaccharides 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	MAN	D	203	12/12	0.84	0.12	41,43,43,43	0
3	BMA	B	202	12/12	0.85	0.11	37,38,38,39	0
2	MAN	C	203	12/12	0.86	0.10	33,34,34,35	0
2	MAN	C	202	12/12	0.87	0.11	36,37,37,37	0
2	MAN	A	203	12/12	0.87	0.09	31,32,32,32	0
2	MAN	A	202	12/12	0.89	0.09	30,30,30,31	0
2	MAN	C	201	12/12	0.91	0.08	21,21,21,21	0
2	MAN	B	201	12/12	0.92	0.08	26,26,27,27	0
2	MAN	D	201	12/12	0.92	0.08	33,33,34,34	0
2	MAN	D	202	12/12	0.93	0.07	24,24,24,24	0
2	MAN	A	201	12/12	0.94	0.06	19,19,19,19	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.