



# wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 31, 2016 – 08:47 PM GMT

PDB ID : 1M26  
Title : Crystal structure of jacalin-T-antigen complex  
Authors : Jeyapakash, A.A.; Rani, P.G.; Reddy, G.B.; Banumathi, S.; Betzel, C.; Suro-  
lia, A.; Vijayan, M.  
Deposited on : 2002-06-21  
Resolution : 1.62 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  
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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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 : 1.7 (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

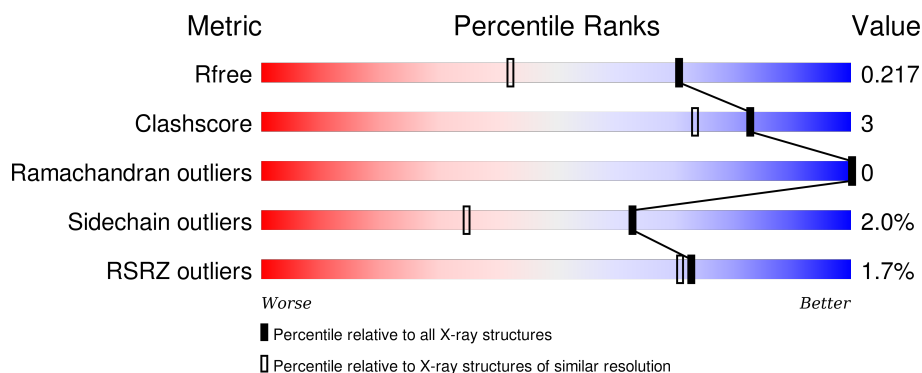
# 1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 1.62 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	3202 (1.64-1.60)
Clashscore	102246	3500 (1.64-1.60)
Ramachandran outliers	100387	3411 (1.64-1.60)
Sidechain outliers	100360	3410 (1.64-1.60)
RSRZ outliers	91569	3207 (1.64-1.60)

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  $\geq 3$ , 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	133	<div> <div style="width: 90%;"></div> <div style="width: 9%;"></div> <div style="width: 1%;"></div> </div> <p>90% 9% .</p>
1	C	133	<div> <div style="width: 92%;"></div> <div style="width: 7%;"></div> <div style="width: 1%;"></div> </div> <p>92% 7% .</p>
1	E	133	<div> <div style="width: 88%;"></div> <div style="width: 10%;"></div> <div style="width: 2%;"></div> </div> <p>88% 10% .</p>
1	G	133	<div> <div style="width: 94%;"></div> <div style="width: 5%;"></div> <div style="width: 1%;"></div> </div> <p>94% 5% ..</p>
2	B	17	<div> <div style="width: 59%;"></div> <div style="width: 24%;"></div> <div style="width: 6%;"></div> <div style="width: 12%;"></div> </div> <p>6% 59% 24% 6% 12%</p>

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Mol	Chain	Length	Quality of chain
2	D	17	
2	F	17	
2	H	17	

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 criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	GAL	A	134	-	-	-	X
3	GAL	G	134	-	-	-	X

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5187 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 Jacalin, alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	133	Total	C	N	O	S	0	0	0
			1036	676	159	199	2			
1	C	133	Total	C	N	O	S	0	0	0
			1040	679	160	199	2			
1	E	133	Total	C	N	O	S	0	0	0
			1040	679	160	199	2			
1	G	133	Total	C	N	O	S	0	0	0
			1036	676	159	199	2			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	98	VAL	ILE	CONFLICT	GB 289162
C	98	VAL	ILE	CONFLICT	GB 289162
E	98	VAL	ILE	CONFLICT	GB 289162
G	98	VAL	ILE	CONFLICT	GB 289162

- Molecule 2 is a protein called Jacalin, beta chain.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	15	Total	C	N	O	0	0	0
			105	68	18	19			
2	D	17	Total	C	N	O	0	0	0
			117	74	20	23			
2	F	15	Total	C	N	O	0	0	0
			105	68	18	19			
2	H	15	Total	C	N	O	0	0	0
			105	68	18	19			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	19	SER	VAL	CONFLICT	GB 289162
B	20	ALA	SER	CONFLICT	GB 289162
D	19	SER	VAL	CONFLICT	GB 289162
D	20	ALA	SER	CONFLICT	GB 289162
F	19	SER	VAL	CONFLICT	GB 289162
F	20	ALA	SER	CONFLICT	GB 289162
H	19	SER	VAL	CONFLICT	GB 289162
H	20	ALA	SER	CONFLICT	GB 289162

- Molecule 3 is a polymer of unknown type called SUGAR (2-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	2	Total	C	N	O	0	0
			26	14	1	11		
3	C	2	Total	C	N	O	0	1
			27	14	1	12		
3	E	2	Total	C	N	O	0	1
			27	14	1	12		
3	G	2	Total	C	N	O	0	0
			26	14	1	11		

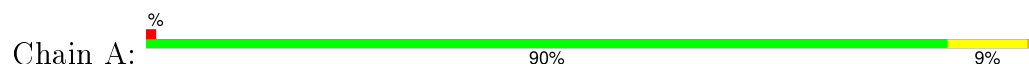
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	141	Total	O	0	0
			141	141		
4	B	15	Total	O	0	0
			15	15		
4	C	105	Total	O	0	0
			105	105		
4	D	19	Total	O	0	0
			19	19		
4	E	97	Total	O	0	0
			97	97		
4	F	16	Total	O	0	0
			16	16		
4	G	92	Total	O	0	0
			92	92		
4	H	12	Total	O	0	0
			12	12		

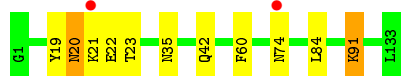
### 3 Residue-property plots [i](#)

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.

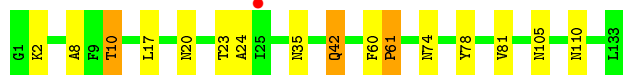
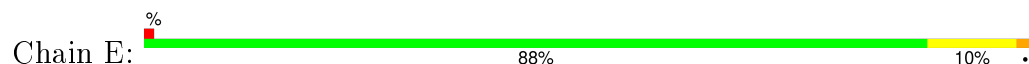
- Molecule 1: Jacalin, alpha chain



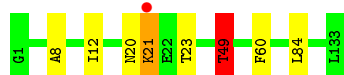
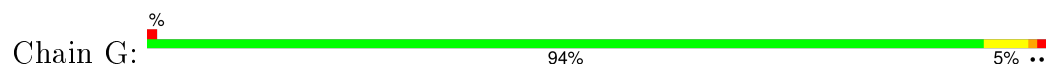
- Molecule 1: Jacalin, alpha chain



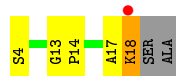
- Molecule 1: Jacalin, alpha chain



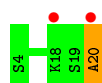
- Molecule 1: Jacalin, alpha chain



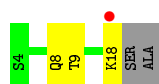
- Molecule 2: Jacalin, beta chain



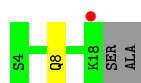
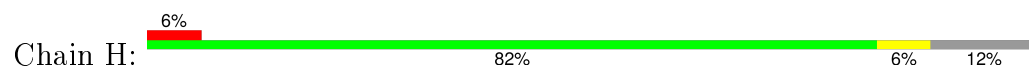
- Molecule 2: Jacalin, beta chain



- Molecule 2: Jacalin, beta chain



- Molecule 2: Jacalin, beta chain



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	58.92Å 78.00Å 67.91Å 90.00° 100.73° 90.00°	Depositor
Resolution (Å)	19.58 – 1.62 19.58 – 1.62	Depositor EDS
% Data completeness (in resolution range)	96.7 (19.58-1.62) 96.8 (19.58-1.62)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.54 (at 1.62Å)	Xtriage
Refinement program	CNS 0.9	Depositor
R, $R_{free}$	0.189 , 0.206 0.203 , 0.217	Depositor DCC
$R_{free}$ test set	3787 reflections (5.10%)	DCC
Wilson B-factor (Å <sup>2</sup> )	20.4	Xtriage
Anisotropy	0.475	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.36 , 47.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 74262 reflections	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	5187	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.76% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: GAL, A2G

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	0.43	0/1065	0.88	6/1445 (0.4%)
1	C	0.39	0/1069	1.07	5/1449 (0.3%)
1	E	0.54	2/1069 (0.2%)	1.00	7/1449 (0.5%)
1	G	0.38	0/1065	0.80	6/1445 (0.4%)
2	B	0.76	0/107	1.71	2/145 (1.4%)
2	D	0.57	0/119	1.23	1/160 (0.6%)
2	F	0.83	0/107	1.81	4/145 (2.8%)
2	H	0.78	0/107	1.13	0/145
All	All	0.48	2/4708 (0.0%)	1.01	31/6383 (0.5%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	E	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	61	PRO	C-N	8.92	1.54	1.34
1	E	61	PRO	N-CD	-5.33	1.40	1.47

The worst 5 of 31 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	91	LYS	CA-CB-CG	26.04	170.68	113.40
1	E	60	PHE	C-N-CD	-12.86	92.30	120.60
2	B	17	ALA	CB-CA-C	-10.47	94.40	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	9	THR	N-CA-CB	-10.16	91.00	110.30
1	E	60	PHE	C-N-CA	10.03	164.12	122.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	E	61	PRO	Mainchain

## 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	1036	0	998	7	0
1	C	1040	0	1009	8	0
1	E	1040	0	1009	9	0
1	G	1036	0	998	5	0
2	B	105	0	108	3	0
2	D	117	0	118	1	0
2	F	105	0	108	0	0
2	H	105	0	108	1	0
3	A	26	0	24	0	0
3	C	27	0	14	0	0
3	E	27	0	14	0	0
3	G	26	0	24	0	0
4	A	141	0	0	2	0
4	B	15	0	0	2	0
4	C	105	0	0	1	0
4	D	19	0	0	1	0
4	E	97	0	0	2	0
4	F	16	0	0	0	0
4	G	92	0	0	1	0
4	H	12	0	0	0	0
All	All	5187	0	4532	29	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.

The worst 5 of 29 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:G:49:THR:OG1	4:G:621:HOH:O	1.78	1.00
1:C:20:ASN:HD22	1:C:22:GLU:H	1.36	0.74
1:E:42:GLN:NE2	4:E:518:HOH:O	2.25	0.70
1:E:110:ASN:HD21	2:H:8:GLN:HE21	1.47	0.61
2:B:4:SER:HB3	4:B:685:HOH:O	2.00	0.61

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	131/133 (98%)	128 (98%)	3 (2%)	0	100	100
1	C	131/133 (98%)	126 (96%)	5 (4%)	0	100	100
1	E	131/133 (98%)	125 (95%)	6 (5%)	0	100	100
1	G	131/133 (98%)	126 (96%)	5 (4%)	0	100	100
2	B	13/17 (76%)	13 (100%)	0	0	100	100
2	D	15/17 (88%)	15 (100%)	0	0	100	100
2	F	13/17 (76%)	13 (100%)	0	0	100	100
2	H	13/17 (76%)	13 (100%)	0	0	100	100
All	All	578/600 (96%)	559 (97%)	19 (3%)	0	100	100

There are no Ramachandran outliers to report.

### 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	112/113 (99%)	109 (97%)	3 (3%)	52	22
1	C	113/113 (100%)	110 (97%)	3 (3%)	52	22
1	E	113/113 (100%)	111 (98%)	2 (2%)	66	40
1	G	112/113 (99%)	110 (98%)	2 (2%)	66	40
2	B	11/12 (92%)	11 (100%)	0	100	100
2	D	12/12 (100%)	12 (100%)	0	100	100
2	F	11/12 (92%)	11 (100%)	0	100	100
2	H	11/12 (92%)	11 (100%)	0	100	100
All	All	495/500 (99%)	485 (98%)	10 (2%)	63	35

5 of 10 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	84	LEU
1	C	91	LYS
1	E	105	ASN
1	C	20	ASN
1	E	10	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 14 such sidechains are listed below:

Mol	Chain	Res	Type
2	D	8	GLN
1	E	29	GLN
1	G	35	ASN
1	C	110	ASN
2	F	8	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 ⓘ

10 carbohydrates 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	$\# Z  > 2$
3	GAL	A	134	3	11,11,12	1.78	3 (27%)	14,15,17	2.97	3 (21%)
3	A2G	A	135	3	15,15,15	1.62	4 (26%)	17,21,21	1.47	4 (23%)
3	GAL	C	134	3	11,11,12	1.50	3 (27%)	14,15,17	3.05	4 (28%)
3	A2G	C	135[A]	-	15,15,15	1.87	4 (26%)	17,21,21	1.19	1 (5%)
3	A2G	C	135[B]	-	15,15,15	1.89	4 (26%)	17,21,21	1.81	2 (11%)
3	GAL	E	134	3	11,11,12	1.73	4 (36%)	14,15,17	3.10	4 (28%)
3	A2G	E	135[A]	-	15,15,15	1.82	4 (26%)	17,21,21	1.13	1 (5%)
3	A2G	E	135[B]	-	15,15,15	1.79	4 (26%)	17,21,21	1.16	1 (5%)
3	GAL	G	134	3	11,11,12	1.76	4 (36%)	14,15,17	3.28	6 (42%)
3	A2G	G	135	3	15,15,15	1.76	4 (26%)	17,21,21	1.12	1 (5%)

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	GAL	A	134	3	-	0/2/19/22	0/1/1/1
3	A2G	A	135	3	-	0/6/26/26	0/1/1/1
3	GAL	C	134	3	-	0/2/19/22	0/1/1/1
3	A2G	C	135[A]	-	-	0/6/26/26	0/1/1/1
3	A2G	C	135[B]	-	-	0/6/26/26	0/1/1/1
3	GAL	E	134	3	-	0/2/19/22	0/1/1/1
3	A2G	E	135[A]	-	-	0/6/26/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	A2G	E	135[B]	-	-	0/6/26/26	0/1/1/1
3	GAL	G	134	3	-	0/2/19/22	0/1/1/1
3	A2G	G	135	3	-	0/6/26/26	0/1/1/1

The worst 5 of 38 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	135[B]	A2G	C2-N2	-3.53	1.40	1.45
3	C	135[A]	A2G	C2-N2	-3.53	1.40	1.45
3	A	135	A2G	C2-N2	-3.12	1.40	1.45
3	E	135[A]	A2G	C2-N2	-2.70	1.41	1.45
3	E	135[B]	A2G	C2-N2	-2.70	1.41	1.45

The worst 5 of 27 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	135[B]	A2G	O1-C1-O	-5.64	94.82	110.25
3	C	134	GAL	O5-C5-C6	-2.90	101.08	107.35
3	G	134	GAL	O5-C5-C6	-2.87	101.14	107.35
3	G	134	GAL	C3-C4-C5	-2.57	105.72	110.20
3	E	134	GAL	O5-C5-C6	-2.55	101.82	107.35

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 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 ⓘ

### 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<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	133/133 (100%)	-0.12	1 (0%) 87 87	14, 20, 30, 33	0
1	C	133/133 (100%)	-0.09	2 (1%) 76 75	14, 21, 32, 36	0
1	E	133/133 (100%)	-0.16	1 (0%) 87 87	14, 20, 27, 35	0
1	G	133/133 (100%)	-0.07	1 (0%) 87 87	16, 22, 30, 37	0
2	B	15/17 (88%)	0.18	1 (6%) 21 18	16, 20, 32, 43	0
2	D	17/17 (100%)	0.07	2 (11%) 6 5	16, 20, 37, 42	0
2	F	15/17 (88%)	0.09	1 (6%) 21 18	15, 21, 31, 40	0
2	H	15/17 (88%)	0.33	1 (6%) 21 18	18, 22, 38, 47	0
All	All	594/600 (99%)	-0.08	10 (1%) 73 71	14, 21, 32, 47	0

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	18	LYS	5.3
2	D	20	ALA	3.9
2	F	18	LYS	3.6
2	B	18	LYS	3.5
1	C	21	LYS	2.4

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

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

### 6.3 Carbohydrates ⓘ

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, 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	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
3	GAL	A	134	11/12	0.75	0.17	4.00	30,33,33,35	0
3	GAL	G	134	11/12	0.80	0.13	2.60	33,36,38,38	0
3	GAL	E	134	11/12	0.86	0.12	0.82	26,29,31,32	0
3	A2G	E	135[A]	15/15	0.93	0.10	0.51	18,23,29,29	1
3	A2G	E	135[B]	15/15	0.93	0.10	0.51	18,22,29,29	1
3	A2G	A	135	15/15	0.92	0.10	0.27	17,21,26,27	0
3	GAL	C	134	11/12	0.93	0.08	0.20	23,24,26,27	0
3	A2G	G	135	15/15	0.89	0.11	0.08	24,28,32,33	0
3	A2G	C	135[A]	15/15	0.95	0.08	-0.06	19,20,26,27	1
3	A2G	C	135[B]	15/15	0.95	0.08	-0.06	19,21,26,27	1

## 6.4 Ligands [i](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.