



# wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 18, 2026 – 11:23 PM UTC

PDB ID : 5DKV / pdb\_00005dkv  
Title : Crystal Structure of an ABC transporter Solute Binding Protein from *Agrobacterium vitis*(Avis\_5339, TARGET EFI-511225) bound with alpha-D-Tagatopyranose  
Authors : Yadava, U.; Al Obaidi, N.F.; Morisco, L.L.; Benach, J.; Koss, J.; Wasserman, S.R.; Attonito, J.D.; Scott Glenn, A.; Chamala, S.; Chowdhury, S.; Lafleur, J.; Love, J.; Seidel, R.D.; Whalen, K.L.; Gerlt, J.A.; Almo, S.C.; Enzyme Function Initiative (EFI)  
Deposited on : 2015-09-04  
Resolution : 1.68 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)

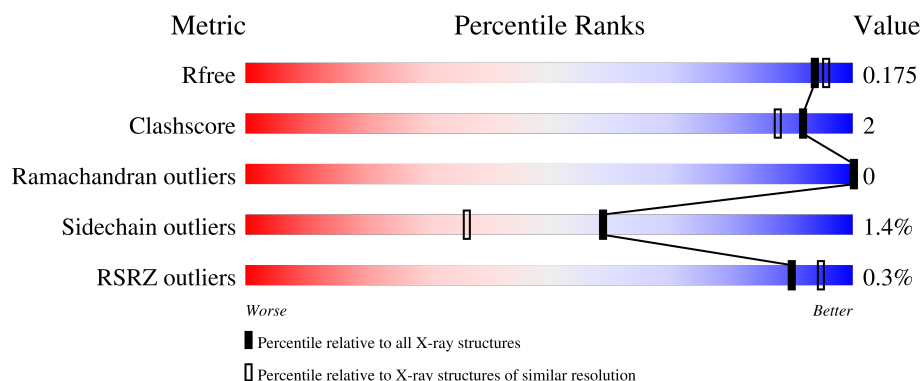
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 1.68 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	1054 (1.68-1.68)
Clashscore	190562	1078 (1.68-1.68)
Ramachandran outliers	187476	1068 (1.68-1.68)
Sidechain outliers	187428	1067 (1.68-1.68)
RSRZ outliers	180081	1055 (1.68-1.68)


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	324	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>%</span> <span>89%</span> <span>5%</span> <span>6%</span> </div> </div>
1	B	324	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>90%</span> <span>•</span> <span>7%</span> </div> </div>
1	C	324	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>87%</span> <span>5%</span> <span>•</span> <span>8%</span> </div> </div>

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Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

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Mol	Chain	Length	Quality of chain
1	D	324	 89% • 8%

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 19427 atoms, of which 8762 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 ABC transporter substrate binding protein (Ribose).

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	303	Total	C	H	N	O	S	0	1	0
			4417	1417	2186	374	436	4			
1	B	300	Total	C	H	N	O	S	0	1	0
			4389	1403	2181	371	431	3			
1	C	298	Total	C	H	N	O	S	0	1	0
			4338	1393	2147	367	428	3			
1	D	298	Total	C	H	N	O	S	0	3	0
			4411	1406	2200	373	429	3			

There are 92 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	6	MET	-	initiating methionine	UNP B9K0T2
A	7	HIS	-	expression tag	UNP B9K0T2
A	8	HIS	-	expression tag	UNP B9K0T2
A	9	HIS	-	expression tag	UNP B9K0T2
A	10	HIS	-	expression tag	UNP B9K0T2
A	11	HIS	-	expression tag	UNP B9K0T2
A	12	HIS	-	expression tag	UNP B9K0T2
A	13	SER	-	expression tag	UNP B9K0T2
A	14	SER	-	expression tag	UNP B9K0T2
A	15	GLY	-	expression tag	UNP B9K0T2
A	16	VAL	-	expression tag	UNP B9K0T2
A	17	ASP	-	expression tag	UNP B9K0T2
A	18	LEU	-	expression tag	UNP B9K0T2
A	19	GLY	-	expression tag	UNP B9K0T2
A	20	THR	-	expression tag	UNP B9K0T2
A	21	GLU	-	expression tag	UNP B9K0T2
A	22	ASN	-	expression tag	UNP B9K0T2
A	23	LEU	-	expression tag	UNP B9K0T2
A	24	TYR	-	expression tag	UNP B9K0T2
A	25	PHE	-	expression tag	UNP B9K0T2
A	26	GLN	-	expression tag	UNP B9K0T2

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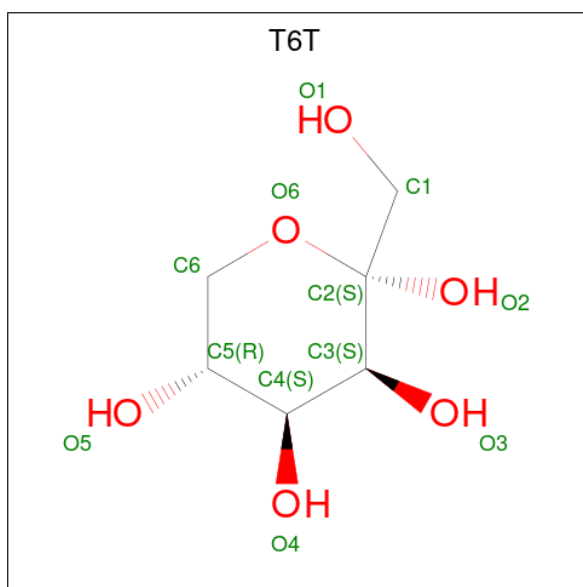
Chain	Residue	Modelled	Actual	Comment	Reference
A	27	SER	-	expression tag	UNP B9K0T2
A	28	MET	-	expression tag	UNP B9K0T2
B	6	MET	-	initiating methionine	UNP B9K0T2
B	7	HIS	-	expression tag	UNP B9K0T2
B	8	HIS	-	expression tag	UNP B9K0T2
B	9	HIS	-	expression tag	UNP B9K0T2
B	10	HIS	-	expression tag	UNP B9K0T2
B	11	HIS	-	expression tag	UNP B9K0T2
B	12	HIS	-	expression tag	UNP B9K0T2
B	13	SER	-	expression tag	UNP B9K0T2
B	14	SER	-	expression tag	UNP B9K0T2
B	15	GLY	-	expression tag	UNP B9K0T2
B	16	VAL	-	expression tag	UNP B9K0T2
B	17	ASP	-	expression tag	UNP B9K0T2
B	18	LEU	-	expression tag	UNP B9K0T2
B	19	GLY	-	expression tag	UNP B9K0T2
B	20	THR	-	expression tag	UNP B9K0T2
B	21	GLU	-	expression tag	UNP B9K0T2
B	22	ASN	-	expression tag	UNP B9K0T2
B	23	LEU	-	expression tag	UNP B9K0T2
B	24	TYR	-	expression tag	UNP B9K0T2
B	25	PHE	-	expression tag	UNP B9K0T2
B	26	GLN	-	expression tag	UNP B9K0T2
B	27	SER	-	expression tag	UNP B9K0T2
B	28	MET	-	expression tag	UNP B9K0T2
C	6	MET	-	initiating methionine	UNP B9K0T2
C	7	HIS	-	expression tag	UNP B9K0T2
C	8	HIS	-	expression tag	UNP B9K0T2
C	9	HIS	-	expression tag	UNP B9K0T2
C	10	HIS	-	expression tag	UNP B9K0T2
C	11	HIS	-	expression tag	UNP B9K0T2
C	12	HIS	-	expression tag	UNP B9K0T2
C	13	SER	-	expression tag	UNP B9K0T2
C	14	SER	-	expression tag	UNP B9K0T2
C	15	GLY	-	expression tag	UNP B9K0T2
C	16	VAL	-	expression tag	UNP B9K0T2
C	17	ASP	-	expression tag	UNP B9K0T2
C	18	LEU	-	expression tag	UNP B9K0T2
C	19	GLY	-	expression tag	UNP B9K0T2
C	20	THR	-	expression tag	UNP B9K0T2
C	21	GLU	-	expression tag	UNP B9K0T2
C	22	ASN	-	expression tag	UNP B9K0T2

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Chain	Residue	Modelled	Actual	Comment	Reference
C	23	LEU	-	expression tag	UNP B9K0T2
C	24	TYR	-	expression tag	UNP B9K0T2
C	25	PHE	-	expression tag	UNP B9K0T2
C	26	GLN	-	expression tag	UNP B9K0T2
C	27	SER	-	expression tag	UNP B9K0T2
C	28	MET	-	expression tag	UNP B9K0T2
D	6	MET	-	initiating methionine	UNP B9K0T2
D	7	HIS	-	expression tag	UNP B9K0T2
D	8	HIS	-	expression tag	UNP B9K0T2
D	9	HIS	-	expression tag	UNP B9K0T2
D	10	HIS	-	expression tag	UNP B9K0T2
D	11	HIS	-	expression tag	UNP B9K0T2
D	12	HIS	-	expression tag	UNP B9K0T2
D	13	SER	-	expression tag	UNP B9K0T2
D	14	SER	-	expression tag	UNP B9K0T2
D	15	GLY	-	expression tag	UNP B9K0T2
D	16	VAL	-	expression tag	UNP B9K0T2
D	17	ASP	-	expression tag	UNP B9K0T2
D	18	LEU	-	expression tag	UNP B9K0T2
D	19	GLY	-	expression tag	UNP B9K0T2
D	20	THR	-	expression tag	UNP B9K0T2
D	21	GLU	-	expression tag	UNP B9K0T2
D	22	ASN	-	expression tag	UNP B9K0T2
D	23	LEU	-	expression tag	UNP B9K0T2
D	24	TYR	-	expression tag	UNP B9K0T2
D	25	PHE	-	expression tag	UNP B9K0T2
D	26	GLN	-	expression tag	UNP B9K0T2
D	27	SER	-	expression tag	UNP B9K0T2
D	28	MET	-	expression tag	UNP B9K0T2

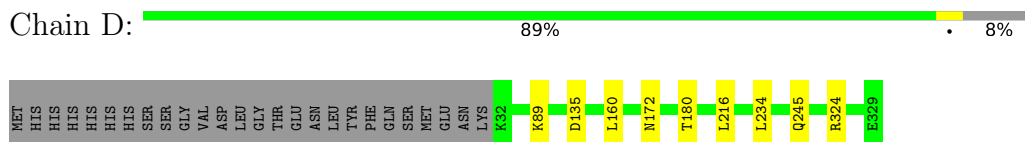
- Molecule 2 is alpha-D-tagatopyranose (CCD ID: T6T) (formula: C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	H	O	0	0
			24	6	12	6		
2	B	1	Total	C	H	O	0	0
			24	6	12	6		
2	C	1	Total	C	H	O	0	0
			24	6	12	6		
2	D	1	Total	C	H	O	0	0
			24	6	12	6		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	444	Total	O	0	0
			444	444		
3	B	428	Total	O	0	3
			431	431		
3	C	461	Total	O	0	3
			464	464		
3	D	437	Total	O	0	0
			437	437		





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	56.18Å 65.89Å 79.66Å 87.41° 90.26° 82.23°	Depositor
Resolution (Å)	29.96 – 1.68 29.96 – 1.68	Depositor EDS
% Data completeness (in resolution range)	97.0 (29.96-1.68) 97.0 (29.96-1.68)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.41 (at 1.68Å)	Xtriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.133 , 0.171 0.137 , 0.175	Depositor DCC
$R_{free}$ test set	6243 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	13.1	Xtriage
Anisotropy	0.060	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 53.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.056 for -h,-k,l	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	19427	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 21.35 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.1455e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<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: T6T

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	0.63	0/2273	0.77	1/3091 (0.0%)
1	B	0.62	0/2250	0.76	0/3062
1	C	0.62	0/2233	0.77	2/3040 (0.1%)
1	D	0.59	0/2253	0.78	0/3064
All	All	0.61	0/9009	0.77	3/12257 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	115	ILE	N-CA-C	5.18	112.27	107.56
1	C	138	PHE	CA-C-N	-5.12	114.44	119.92
1	C	138	PHE	C-N-CA	-5.12	114.44	119.92

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	2231	2186	2229	10	0
1	B	2208	2181	2204	5	0
1	C	2191	2147	2185	13	0
1	D	2211	2200	2214	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	12	12	0	0	0
2	B	12	12	0	0	0
2	C	12	12	0	0	0
2	D	12	12	0	0	0
3	A	444	0	0	2	2
3	B	431	0	0	2	1
3	C	464	0	0	5	1
3	D	437	0	0	0	0
All	All	10665	8762	8832	28	2

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 28 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:27:SER:N	1:A:30:ASN:HB2	2.09	0.68
1:B:43:THR:O	3:B:501:HOH:O	2.11	0.68
1:B:185:GLN:NE2	3:B:502:HOH:O	2.27	0.66
1:C:206:ASP:OD2	3:C:1401:HOH:O	2.12	0.66
1:A:318:THR:O	3:A:501:HOH:O	2.17	0.58

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:542:HOH:O	3:C:1681:HOH:O[1_645]	2.07	0.13
3:A:516:HOH:O	3:B:693:HOH:O[1_655]	2.16	0.04

## 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	302/324 (93%)	295 (98%)	7 (2%)	0	100	100
1	B	299/324 (92%)	292 (98%)	7 (2%)	0	100	100
1	C	297/324 (92%)	290 (98%)	7 (2%)	0	100	100
1	D	299/324 (92%)	292 (98%)	7 (2%)	0	100	100
All	All	1197/1296 (92%)	1169 (98%)	28 (2%)	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	230/248 (93%)	226 (98%)	4 (2%)	53	29
1	B	227/248 (92%)	223 (98%)	4 (2%)	51	27
1	C	225/248 (91%)	223 (99%)	2 (1%)	70	55
1	D	227/248 (92%)	222 (98%)	5 (2%)	45	19
All	All	909/992 (92%)	894 (98%)	15 (2%)	59	29

5 of 15 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	246[B]	GLN
1	D	216	LEU
1	C	217	GLN
1	D	245	GLN
1	D	135	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	105	GLN
1	C	194	HIS
1	D	102	GLN

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Mol	Chain	Res	Type
1	C	249	GLN
1	B	185	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 ⓘ

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry ⓘ

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	T6T	D	401	-	12,12,12	1.77	4 (33%)	18,18,18	0.68	0
2	T6T	A	401	-	12,12,12	1.88	4 (33%)	18,18,18	1.15	2 (11%)
2	T6T	C	401	-	12,12,12	1.57	3 (25%)	18,18,18	1.20	0
2	T6T	B	401	-	12,12,12	1.76	4 (33%)	18,18,18	0.92	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
2	T6T	D	401	-	-	0/3/23/23	0/1/1/1
2	T6T	A	401	-	-	0/3/23/23	0/1/1/1
2	T6T	C	401	-	-	0/3/23/23	0/1/1/1
2	T6T	B	401	-	-	0/3/23/23	0/1/1/1

The worst 5 of 15 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	T6T	C5-C4	-3.58	1.47	1.52
2	A	401	T6T	C4-C3	-3.55	1.47	1.53
2	B	401	T6T	C5-C4	-3.44	1.47	1.52
2	D	401	T6T	C5-C4	-3.24	1.47	1.52
2	D	401	T6T	C4-C3	-3.14	1.47	1.53

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	T6T	O6-C2-C1	-2.33	102.19	105.41
2	B	401	T6T	O5-C5-C4	2.10	114.49	110.15
2	A	401	T6T	O5-C5-C6	-2.04	104.54	109.22

There are no chirality outliers.

There are no torsion outliers.

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	303/324 (93%)	-0.66	4 (1%) 75 83	8, 15, 33, 62	1 (0%)
1	B	300/324 (92%)	-0.75	0 100 100	8, 15, 34, 52	1 (0%)
1	C	298/324 (91%)	-0.80	0 100 100	8, 13, 25, 53	1 (0%)
1	D	298/324 (91%)	-0.70	0 100 100	9, 16, 31, 56	3 (1%)
All	All	1199/1296 (92%)	-0.73	4 (0%) 90 95	8, 15, 31, 62	6 (0%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	28	MET	3.4
1	A	27	SER	2.9
1	A	29	GLU	2.9
1	A	329	GLU	2.7

### 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	T6T	B	401	12/12	0.98	0.04	7,10,12,13	0
2	T6T	C	401	12/12	0.98	0.03	6,9,11,12	0
2	T6T	A	401	12/12	0.99	0.03	5,8,10,11	0
2	T6T	D	401	12/12	0.99	0.03	7,10,12,13	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.