



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 10, 2022 – 01:46 PM EST

PDB ID : 7TEM  
Title : Crystal Structure of the Putative Exported Protein YPO2471 from *Yersinia pestis*  
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Deposited on : 2022-01-05  
Resolution : 1.65 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.

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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 : 2.25  
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) : 2.25

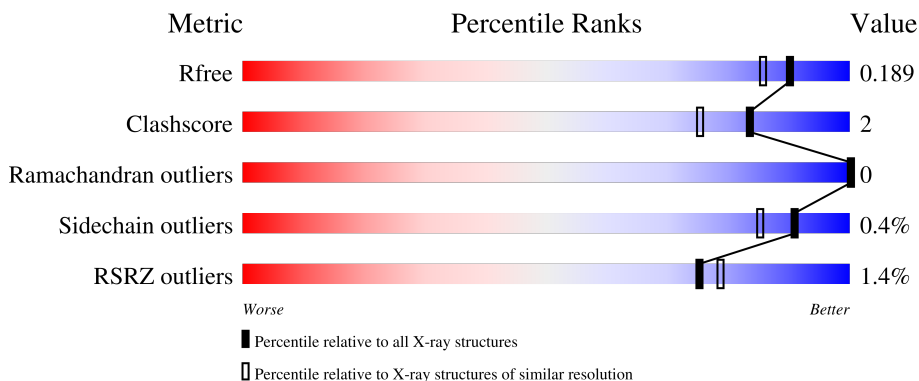
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.65 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	1827 (1.66-1.66)
Clashscore	141614	1931 (1.66-1.66)
Ramachandran outliers	138981	1891 (1.66-1.66)
Sidechain outliers	138945	1891 (1.66-1.66)
RSRZ outliers	127900	1791 (1.66-1.66)

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	427	 88% 7% 5%
1	B	427	 91% 5% 5% 2%
2	C	2	 50% 50%
2	D	2	 50% 50%

## 2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 7507 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.

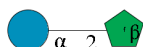
- Molecule 1 is a protein called Putative exported protein YPO2471.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	Se			
1	A	404	3410	2177	580	642	11	0	18	0
1	B	405	3335	2136	567	622	10	0	9	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	SER	-	expression tag	UNP A0A5P8YGV9
A	-1	ASN	-	expression tag	UNP A0A5P8YGV9
A	0	ALA	-	expression tag	UNP A0A5P8YGV9
B	-2	SER	-	expression tag	UNP A0A5P8YGV9
B	-1	ASN	-	expression tag	UNP A0A5P8YGV9
B	0	ALA	-	expression tag	UNP A0A5P8YGV9

- Molecule 2 is an oligosaccharide called beta-D-fructofuranose-(2-1)-alpha-D-glucopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
			Total	C	O			
2	C	2	23	12	11	0	0	0
2	D	2	23	12	11	0	0	0

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Cl	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total Cl 1 1	0	0

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).



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

- Molecule 5 is ACETIC ACID (three-letter code: ACY) (formula: C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>).



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

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



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

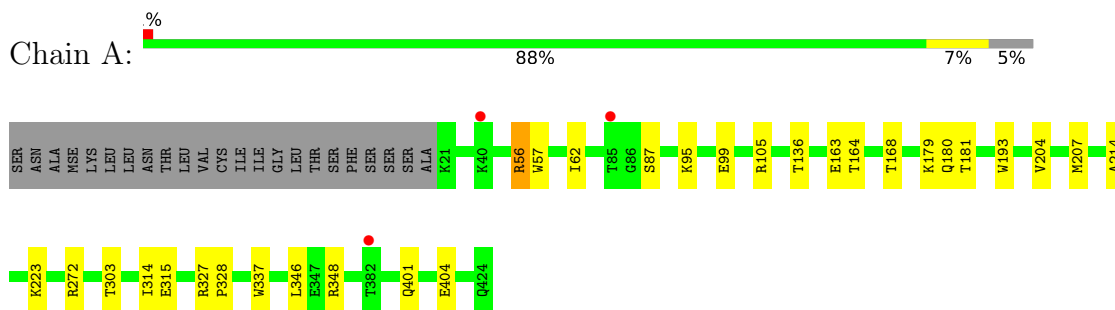
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	359	Total 359	O 359	0	0
7	B	321	Total 321	O 321	0	0

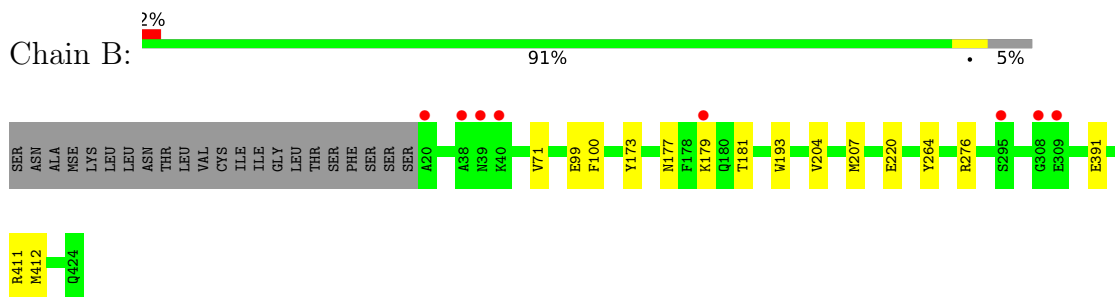
### 3 Residue-property plots [i](#)

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: Putative exported protein YPO2471



- Molecule 1: Putative exported protein YPO2471



- Molecule 2: beta-D-fructofuranose-(2-1)-alpha-D-glucopyranose



- Molecule 2: beta-D-fructofuranose-(2-1)-alpha-D-glucopyranose



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	54.77Å 90.02Å 181.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	23.44 – 1.65 23.44 – 1.65	Depositor EDS
% Data completeness (in resolution range)	97.4 (23.44-1.65) 97.4 (23.44-1.65)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.92 (at 1.65Å)	Xtrriage
Refinement program	PHENIX 1.19_4092	Depositor
R, $R_{free}$	0.159 , 0.189 0.160 , 0.189	Depositor DCC
$R_{free}$ test set	5300 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	19.6	Xtrriage
Anisotropy	0.275	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.36 , 45.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	7507	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	25.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.38% 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: FRU, EDO, GOL, CL, ACY, GLC

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	0.45	0/3478	0.62	0/4702
1	B	0.44	0/3402	0.62	0/4599
All	All	0.45	0/6880	0.62	0/9301

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	3410	0	3335	22	0
1	B	3335	0	3285	11	0
2	C	23	0	21	0	0
2	D	23	0	21	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	16	0	24	3	0
4	B	8	0	12	0	0
5	B	4	0	3	0	0
6	B	6	0	8	1	0
7	A	359	0	0	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	B	321	0	0	1	0
All	All	7507	0	6709	32	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.

All (32) 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:B:207[A]:MSE:HE1	1:B:264:TYR:HD2	1.62	0.65
1:B:391:GLU:OE1	6:B:505:GOL:H12	2.00	0.61
1:A:401:GLN:O	1:A:404[B]:GLU:HG3	2.03	0.58
1:A:105[A]:ARG:NH1	1:A:168:THR:OG1	2.37	0.57
1:B:179:LYS:HG2	1:B:181:THR:HG23	1.87	0.56
1:A:56[B]:ARG:NH2	4:A:505:EDO:H22	2.23	0.54
1:B:204:VAL:HA	1:B:207[A]:MSE:HG2	1.91	0.53
1:B:207[A]:MSE:HE1	1:B:264:TYR:CD2	2.44	0.52
1:A:56[B]:ARG:CZ	4:A:505:EDO:H22	2.43	0.48
1:B:173:TYR:CE1	1:B:220:GLU:HB3	2.50	0.47
1:A:303:THR:OG1	1:A:315[B]:GLU:HG3	2.14	0.47
1:A:105[B]:ARG:NH1	1:A:164:THR:OG1	2.49	0.45
1:A:180:GLN:HA	1:A:193:TRP:CE3	2.52	0.45
1:A:95:LYS:O	1:A:99[B]:GLU:HG3	2.16	0.45
1:A:62:ILE:HD12	1:B:276:ARG:NE	2.32	0.44
1:A:204:VAL:HA	1:A:207[A]:MSE:HE3	1.99	0.44
1:A:57:TRP:HB2	4:A:505:EDO:H11	1.98	0.43
1:A:179:LYS:HG2	1:A:181:THR:HG23	1.99	0.43
1:B:177:ASN:O	1:B:193:TRP:HB2	2.19	0.43
1:B:99[A]:GLU:OE2	7:B:601:HOH:O	2.22	0.42
1:A:105[A]:ARG:HD2	1:A:164:THR:HG23	2.01	0.42
1:A:327:ARG:HB3	1:A:328:PRO:HD3	2.01	0.42
1:B:71:VAL:HG11	1:B:100:PHE:HD2	1.84	0.41
1:A:163:GLU:HG3	7:A:870:HOH:O	2.19	0.41
1:A:136:THR:OG1	7:A:601:HOH:O	2.22	0.41
1:A:223:LYS:HE2	7:A:843:HOH:O	2.21	0.41
1:A:337:TRP:CE2	1:A:346:LEU:HD11	2.56	0.41
1:B:412:MSE:HE3	1:B:412:MSE:HB2	1.87	0.41
1:A:314:ILE:HG22	1:A:315[B]:GLU:HG2	2.02	0.41
1:A:105[B]:ARG:NH2	7:A:606:HOH:O	2.35	0.40
1:A:348:ARG:HD2	7:A:668:HOH:O	2.21	0.40
1:A:214:ALA:HB2	1:A:272:ARG:CZ	2.52	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	420/427 (98%)	409 (97%)	11 (3%)	0	100	100
1	B	412/427 (96%)	398 (97%)	14 (3%)	0	100	100
All	All	832/854 (97%)	807 (97%)	25 (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	359/351 (102%)	356 (99%)	3 (1%)	81	70
1	B	350/351 (100%)	348 (99%)	2 (1%)	86	76
All	All	709/702 (101%)	704 (99%)	5 (1%)	91	73

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

Mol	Chain	Res	Type
1	A	56[A]	ARG
1	A	56[B]	ARG
1	A	87	SER
1	B	411[A]	ARG
1	B	411[B]	ARG

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

### 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](#)

4 monosaccharides 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	GLC	C	1	2	11,11,12	0.55	0	15,15,17	1.12	2 (13%)
2	FRU	C	2	2	11,12,12	0.55	0	10,18,18	0.67	0
2	GLC	D	1	2	11,11,12	0.51	0	15,15,17	0.92	1 (6%)
2	FRU	D	2	2	11,12,12	0.49	0	10,18,18	0.77	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	GLC	C	1	2	-	2/2/19/22	0/1/1/1
2	FRU	C	2	2	-	0/5/24/24	0/1/1/1
2	GLC	D	1	2	-	2/2/19/22	0/1/1/1
2	FRU	D	2	2	-	0/5/24/24	0/1/1/1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1	GLC	C1-C2-C3	2.55	112.80	109.67
2	D	1	GLC	O5-C5-C6	2.50	111.13	107.20
2	C	1	GLC	O5-C5-C6	2.30	110.81	107.20

There are no chirality outliers.

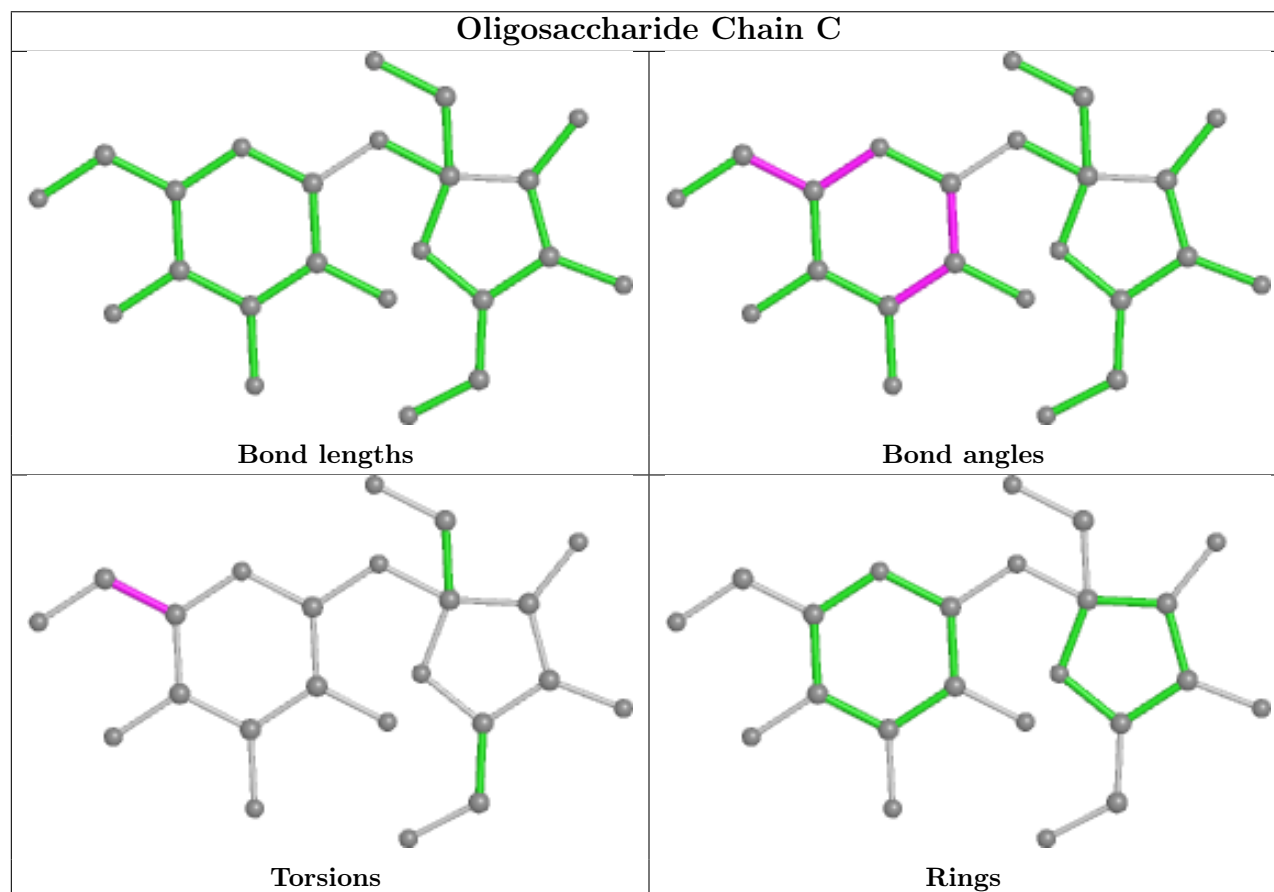
All (4) torsion outliers are listed below:

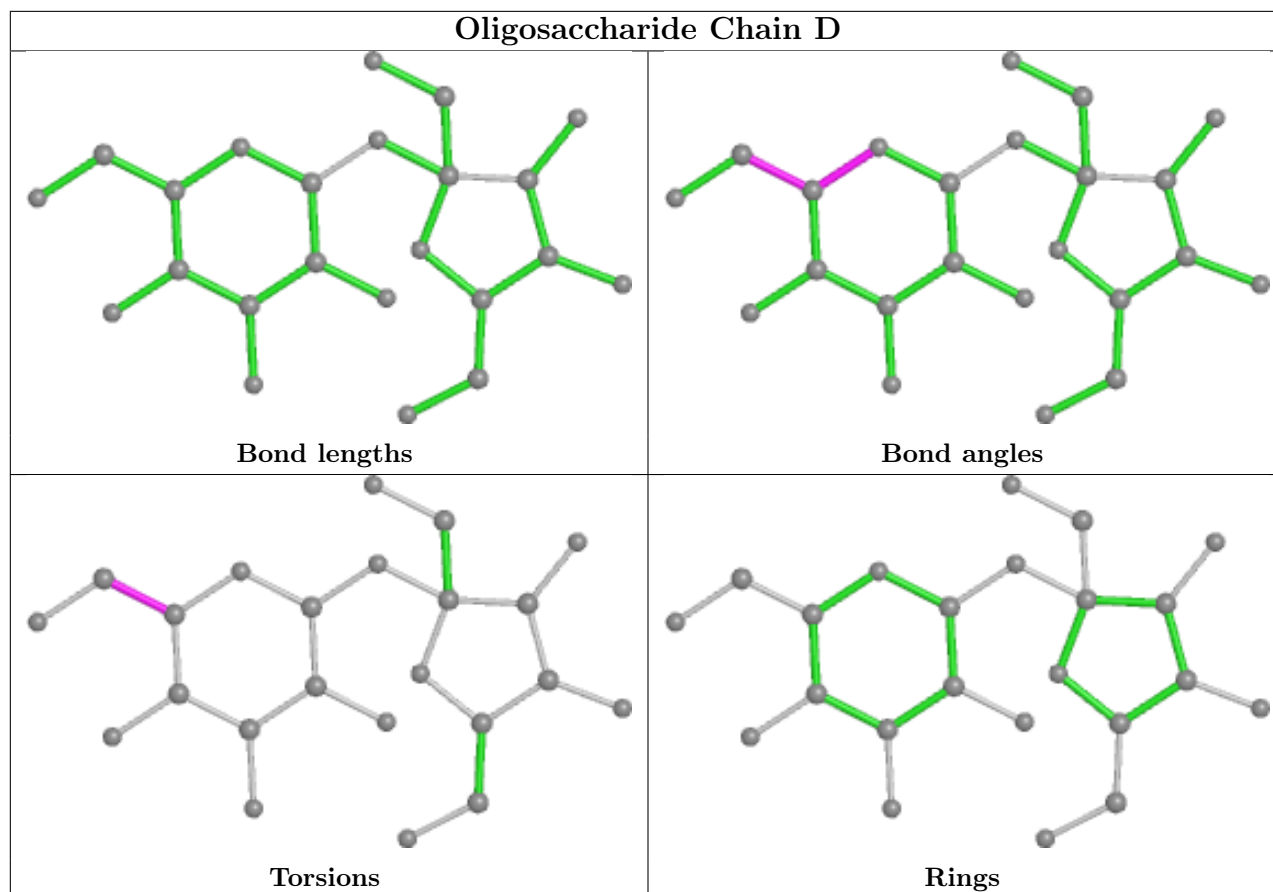
Mol	Chain	Res	Type	Atoms
2	D	1	GLC	O5-C5-C6-O6
2	D	1	GLC	C4-C5-C6-O6
2	C	1	GLC	O5-C5-C6-O6
2	C	1	GLC	C4-C5-C6-O6

There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.





## 5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 2 are monoatomic - leaving 8 for Mogul analysis.

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
4	EDO	A	502	-	3,3,3	0.58	0	2,2,2	0.25	0
4	EDO	A	505	-	3,3,3	0.47	0	2,2,2	0.09	0
6	GOL	B	505	-	5,5,5	0.77	0	5,5,5	0.90	0
5	ACY	B	504	-	1,3,3	4.13	1 (100%)	0,3,3	-	-
4	EDO	A	504	-	3,3,3	0.45	0	2,2,2	0.43	0
4	EDO	B	502	-	3,3,3	0.64	0	2,2,2	0.30	0
4	EDO	A	503	-	3,3,3	0.41	0	2,2,2	0.63	0
4	EDO	B	503	-	3,3,3	0.56	0	2,2,2	0.15	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
4	EDO	A	502	-	-	0/1/1/1	-
4	EDO	A	505	-	-	0/1/1/1	-
6	GOL	B	505	-	-	2/4/4/4	-
4	EDO	A	504	-	-	0/1/1/1	-
4	EDO	B	502	-	-	0/1/1/1	-
4	EDO	A	503	-	-	0/1/1/1	-
4	EDO	B	503	-	-	0/1/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	504	ACY	CH3-C	4.13	1.54	1.48

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	B	505	GOL	O1-C1-C2-C3
6	B	505	GOL	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	505	EDO	3	0
6	B	505	GOL	1	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, 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	395/427 (92%)	-0.16	3 (0%) 86 88	13, 22, 38, 57	0
1	B	396/427 (92%)	-0.14	8 (2%) 65 67	13, 23, 40, 65	0
All	All	791/854 (92%)	-0.15	11 (1%) 75 79	13, 22, 40, 65	0

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	38	ALA	6.7
1	B	20	ALA	6.3
1	B	40	LYS	3.8
1	B	39	ASN	2.9
1	B	179	LYS	2.7
1	B	309	GLU	2.4
1	B	308	GLY	2.4
1	A	85	THR	2.3
1	A	40	LYS	2.1
1	A	382	THR	2.0
1	B	295	SER	2.0

### 6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

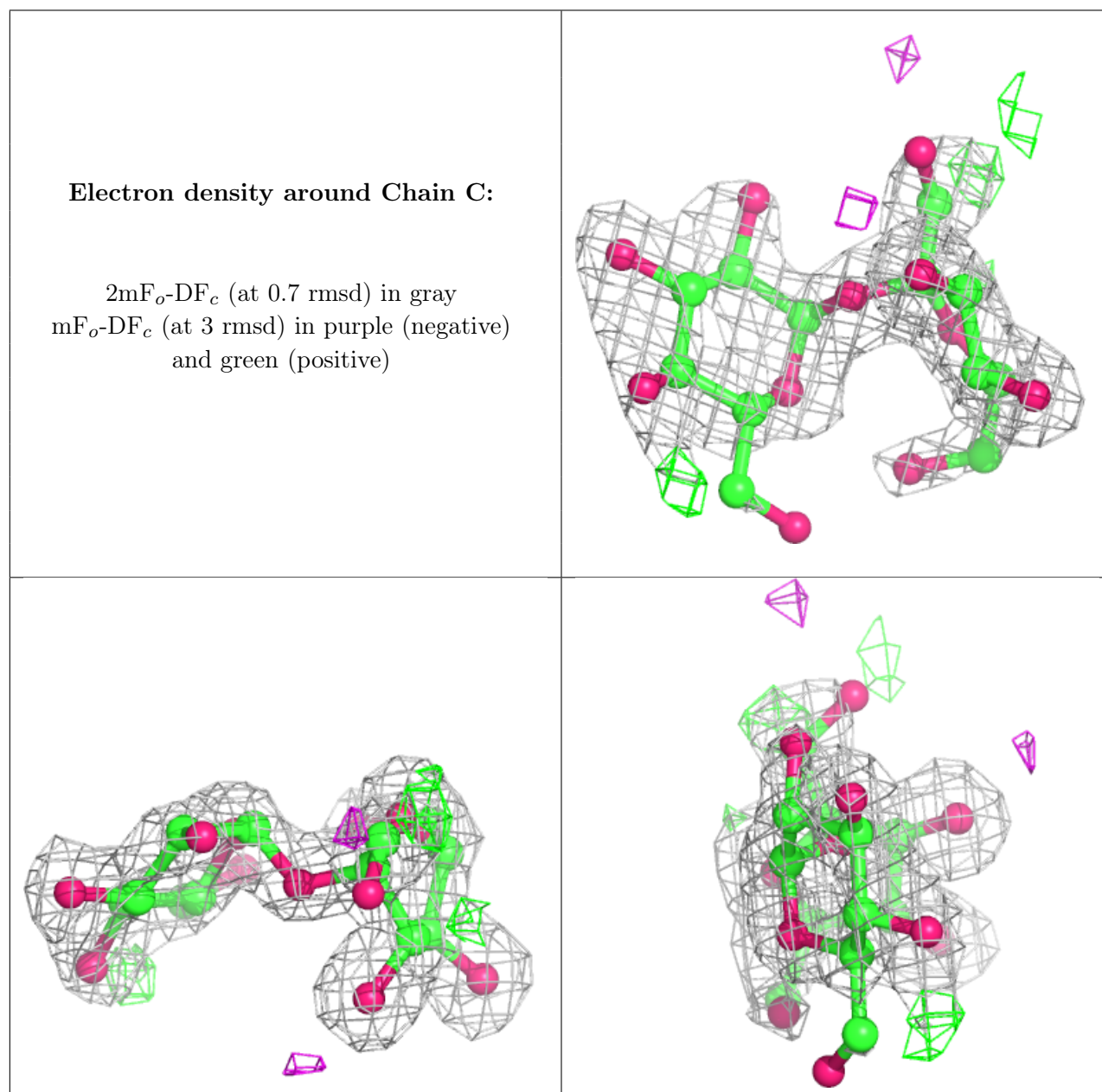
### 6.3 Carbohydrates [i](#)

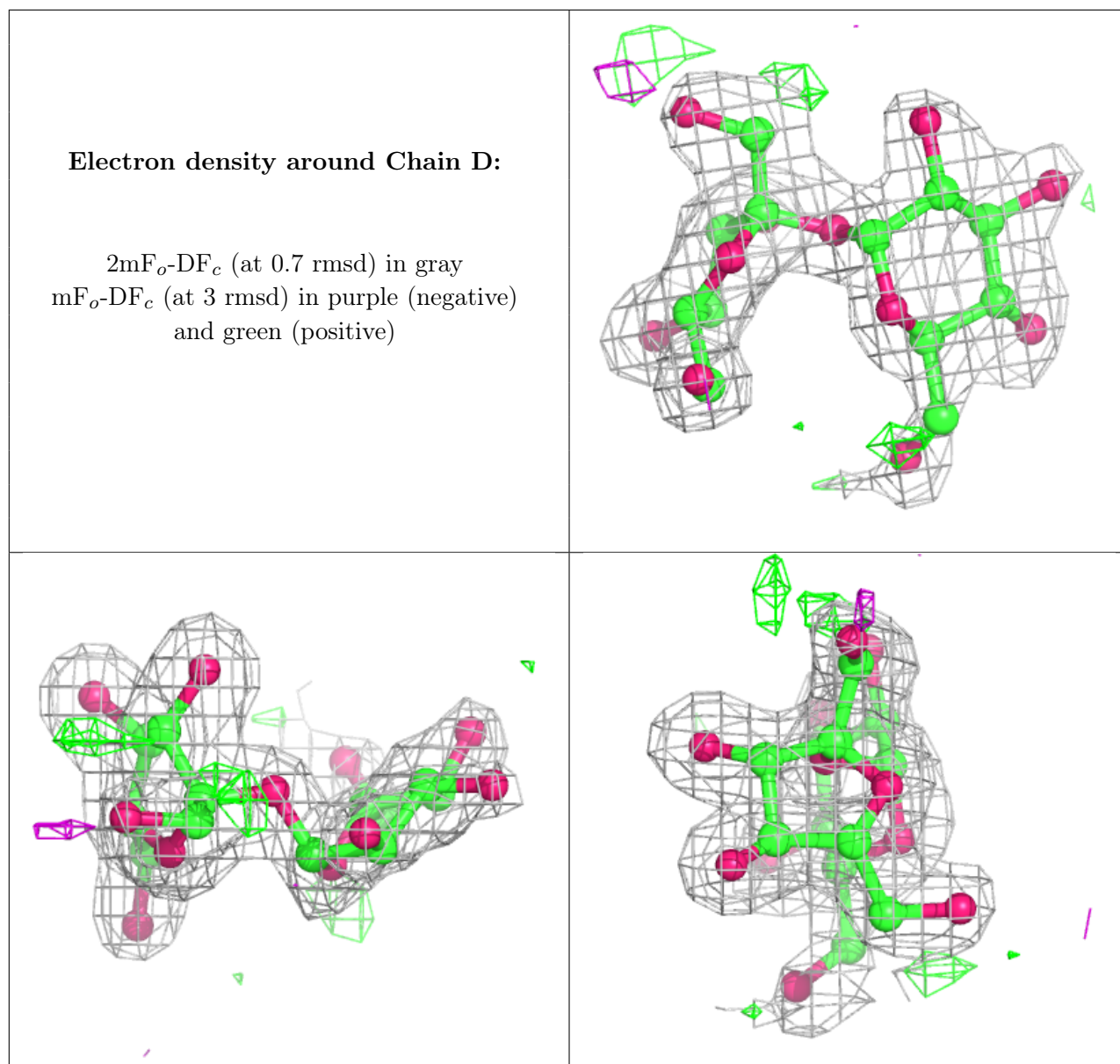
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 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	GLC	C	1	11/12	0.80	0.22	43,47,57,58	11
2	GLC	D	1	11/12	0.85	0.18	44,48,55,56	11
2	FRU	C	2	12/12	0.89	0.16	16,32,45,47	12
2	FRU	D	2	12/12	0.92	0.09	17,32,40,43	12

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.





## 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(Å <sup>2</sup> )	Q<0.9
4	EDO	B	502	4/4	0.78	0.16	26,36,37,42	0
5	ACY	B	504	4/4	0.84	0.18	39,42,46,49	0
4	EDO	B	503	4/4	0.87	0.12	35,36,46,50	0
4	EDO	A	505	4/4	0.89	0.37	41,44,44,45	0
4	EDO	A	502	4/4	0.89	0.15	29,31,39,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
4	EDO	A	504	4/4	0.91	0.13	35,37,40,46	0
6	GOL	B	505	6/6	0.91	0.20	30,40,54,61	0
4	EDO	A	503	4/4	0.92	0.18	28,33,38,55	0
3	CL	A	501	1/1	0.99	0.05	22,22,22,22	0
3	CL	B	501	1/1	0.99	0.04	21,21,21,21	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.