

Full wwPDB X-ray Structure Validation Report (i)

Oct 19, 2023 – 09:51 AM EDT

PDB ID : 2QZ3

Title : Crystal structure of a glycoside hydrolase family 11 xylanase from Bacillus

subtilis in complex with xylotetraose

Authors: Vandermarliere, E.; Bourgois, T.M.; Strelkov, S.V.; Delcour, J.A.; Courtin,

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Deposited on : 2007-08-16

Resolution : 1.80 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
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

 $Mol Probity \quad : \quad 4.02b\text{--}467$

Mogul: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13 EDS : 2.36

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

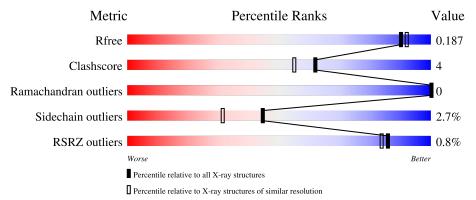
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$

The reported resolution of this entry is 1.80 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{\rm A})}) \end{array}$
R_{free}	130704	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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 >=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 <=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	185	.%	91%	5% • •	
1	В	185	9%	95%		
2	С	3	33%	67%		
2	D	3	67%	33%		
2	E	3	67%	33%		



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Mo	Chain	Length	Quality of chain	
2	F	3	670	220/
2	F'	3	67%	33%

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
2	XYP	\mathbf{E}	1	-	-	-	X



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 3321 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 Endo-1,4-beta-xylanase A.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	Λ	184	Total	С	N	О	S	0	2	0
1	A	104	1450	915	248	285	2	0	3	0
1	D	184	Total	С	N	О	S	0	6	0
1	Б	104	1460	924	248	286	2	0	U	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	172	ALA	GLU	engineered mutation	UNP P18429
В	172	ALA	GLU	engineered mutation	UNP P18429

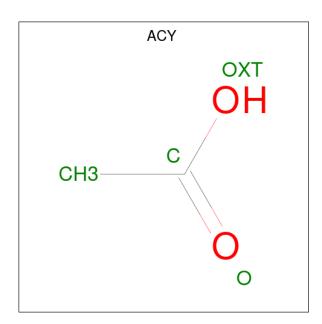
• Molecule 2 is an oligosaccharide called beta-D-xylopyranose-(1-4)-beta-D-xylopyranose-(1-4)-beta-D-xylopyranose.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	С	3	Total C O	0	0	0
		3	28 15 13		0	0
2	D	3	Total C O	0	0	0
	D	3	28 15 13		0	0
2	E	3	Total C O	0	0	0
	<u> </u>	3	28 15 13		0	0
2	F	3	Total C O	0	0	0
	I'	3	28 15 13	0	U	U

• Molecule 3 is ACETIC ACID (three-letter code: ACY) (formula: $C_2H_4O_2$).





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

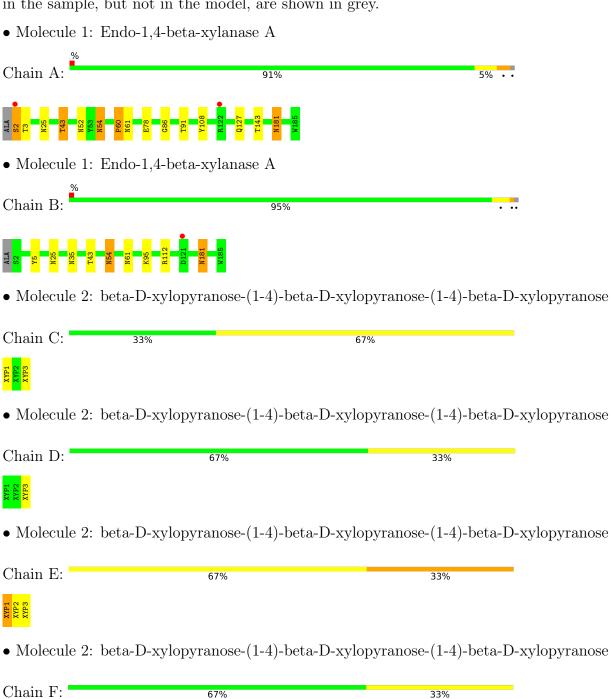
• Molecule 4 is water.

\mathbf{Mol}	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	144	Total O 144 144	0	0
4	В	151	Total O 151 151	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.









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	40.64Å 78.98Å 54.40Å	Depositor
a, b, c, α , β , γ	90.00° 101.49° 90.00°	Depositor
Resolution (Å)	19.91 - 1.80	Depositor
Resolution (A)	19.91 - 1.80	EDS
% Data completeness	99.3 (19.91-1.80)	Depositor
(in resolution range)	99.3 (19.91-1.80)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.04	Depositor
$< I/\sigma(I) > 1$	9.80 (at 1.80Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
P. P.	0.146 , 0.188	Depositor
R, R_{free}	0.146 , 0.187	DCC
R_{free} test set	3116 reflections (10.08%)	wwPDB-VP
Wilson B-factor (Å ²)	14.0	Xtriage
Anisotropy	0.098	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.40, 50.5	EDS
L-test for twinning ²	$ < L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3321	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.51% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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: ACY, XYP

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	Bond lengths		nd angles
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.59	0/1507	0.65	1/2066 (0.0%)
1	В	0.60	0/1526	0.66	0/2091
All	All	0.59	0/3033	0.66	1/4157 (0.0%)

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	A	0	1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	61	ASN	N-CA-C	5.08	124.72	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	60	PRO	Peptide

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	1450	0	1332	19	0
1	В	1460	0	1353	15	0
2	С	28	0	0	0	0
2	D	28	0	0	0	0
2	Е	28	0	0	1	0
2	F	28	0	0	0	0
3	A	4	0	3	0	0
4	A	144	0	0	2	0
4	В	151	0	0	0	0
All	All	3321	0	2688	25	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 (25) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ (\rm \mathring{A}) \end{array}$	Clash overlap (Å)
1:A:43[A]:THR:HG21	1:B:43[A]:THR:OG1	1.49	1.13
1:A:2:SER:HB2	4:A:1073:HOH:O	1.74	0.86
1:A:43[B]:THR:HG22	1:B:43[B]:THR:HG21	1.63	0.78
1:A:52:ASN:OD1	1:A:143[B]:THR:HG22	1.93	0.69
1:A:43[B]:THR:HG21	1:B:43[B]:THR:HG22	1.76	0.67
1:B:25:ASN:HD21	1:B:181:ASN:HD21	1.41	0.67
1:A:25:ASN:HD21	1:A:181:ASN:HD21	1.42	0.65
1:A:43[B]:THR:CG2	1:B:43[B]:THR:CG2	2.77	0.62
1:A:43[B]:THR:CG2	1:B:43[B]:THR:HG21	2.33	0.59
1:A:43[A]:THR:CG2	1:B:43[A]:THR:OG1	2.40	0.57
1:A:43[B]:THR:HG21	1:B:43[B]:THR:CG2	2.36	0.54
1:A:91[B]:THR:HG23	1:A:108:TYR:CZ	2.43	0.53
1:B:25:ASN:HD21	1:B:181:ASN:ND2	2.07	0.52
1:B:61:ASN:OD1	1:B:61:ASN:C	2.50	0.49
1:A:43[B]:THR:CG2	1:B:43[B]:THR:HG22	2.39	0.49
1:A:54:ASN:C	1:A:54:ASN:HD22	2.16	0.49
1:A:25:ASN:HD21	1:A:181:ASN:ND2	2.09	0.48
1:B:35:ASN:OD1	2:E:1:XYP:C5	2.62	0.48
1:A:43[B]:THR:HG22	1:B:43[B]:THR:CG2	2.35	0.47
1:B:54:ASN:C	1:B:54:ASN:HD22	2.19	0.45
1:A:78:GLU:O	1:A:127:GLN:HA	2.18	0.44
1:B:5:TYR:CD1	1:B:43[B]:THR:HG22	2.55	0.42
1:A:60:PRO:HG2	1:A:86:GLY:HA2	2.03	0.41



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Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:A:2:SER:HB2	1:A:3:THR:H	1.69	0.40
1:A:43[A]:THR:HG22	4:A:1116:HOH:O	2.21	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	Perce	\mathbf{ntiles}
1	A	185/185 (100%)	180 (97%)	5 (3%)	0	100	100
1	В	188/185 (102%)	186 (99%)	2 (1%)	0	100	100
All	All	373/370 (101%)	366 (98%)	7 (2%)	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	Perce	ntiles
1	A	153/150 (102%)	148 (97%)	5 (3%)	38	23
1	В	156/150 (104%)	152 (97%)	4 (3%)	46	32
All	All	309/300 (103%)	300 (97%)	9 (3%)	44	29

All (9) residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	A	2	SER
1	A	43[A]	THR
1	A	43[B]	THR
1	A	54	ASN
1	A	181	ASN
1	В	54	ASN
1	В	95	LYS
1	В	112	ARG
1	В	181	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	54	ASN
1	A	133	GLN
1	A	148	ASN
1	A	156	HIS
1	A	181	ASN
1	В	54	ASN
1	В	133	GLN
1	В	148	ASN
1	В	156	HIS
1	В	175	GLN
1	В	181	ASN

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)

12 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	Tuna	Chain	Res	Link	Вс	ond leng	$ ag{ths}$	В	ond ang	les
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
2	XYP	С	1	2	10,10,10	0.73	0	14,14,14	1.59	3 (21%)
2	XYP	С	2	2	9,9,10	0.26	0	10,12,14	0.79	0
2	XYP	С	3	2	9,9,10	0.58	0	10,12,14	1.48	2 (20%)
2	XYP	D	1	2	10,10,10	0.67	0	14,14,14	0.75	0
2	XYP	D	2	2	9,9,10	0.49	0	10,12,14	0.84	0
2	XYP	D	3	2	9,9,10	0.46	0	10,12,14	1.05	1 (10%)
2	XYP	Е	1	2	10,10,10	0.58	0	14,14,14	1.06	1 (7%)
2	XYP	Е	2	2	9,9,10	0.60	0	10,12,14	2.75	5 (50%)
2	XYP	Е	3	2	9,9,10	0.39	0	10,12,14	1.15	1 (10%)
2	XYP	F	1	2	10,10,10	0.72	0	14,14,14	0.62	0
2	XYP	F	2	2	9,9,10	0.55	0	10,12,14	0.97	0
2	XYP	F	3	2	9,9,10	0.70	0	10,12,14	1.16	1 (10%)

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	XYP	С	1	2	-	-	0/1/1/1
2	XYP	С	2	2	-	-	0/1/1/1
2	XYP	С	3	2	-	-	0/1/1/1
2	XYP	D	1	2	-	-	0/1/1/1
2	XYP	D	2	2	-	-	0/1/1/1
2	XYP	D	3	2	-	-	0/1/1/1
2	XYP	Е	1	2	-	-	0/1/1/1
2	XYP	Е	2	2	-	-	0/1/1/1
2	XYP	Е	3	2	-	-	0/1/1/1
2	XYP	F	1	2	-	-	0/1/1/1
2	XYP	F	2	2	-	-	0/1/1/1
2	XYP	F	3	2	-	-	0/1/1/1

There are no bond length outliers.

All (14) bond angle outliers are listed below:

					` '	()
2	E 2	XYP	C1-C2-C3	6.27	117.37	109.67



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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	Е	2	XYP	C4-C3-C2	4.44	116.19	110.92
2	С	1	XYP	C4-C3-C2	3.23	116.48	110.89
2	F	3	XYP	C1-C2-C3	3.08	113.45	109.67
2	С	3	XYP	C1-C2-C3	-2.89	106.11	109.67
2	С	1	XYP	C1-C2-C3	2.86	116.25	110.31
2	Ε	2	XYP	O2-C2-C3	-2.37	105.38	110.14
2	Е	2	XYP	C5-C4-C3	2.35	112.55	109.67
2	С	3	XYP	C5-C4-C3	2.22	112.40	109.67
2	С	1	XYP	C5-C4-C3	2.22	112.39	109.67
2	D	3	XYP	C5-O5-C1	2.14	114.81	111.52
2	Е	1	XYP	O5-C5-C4	2.11	114.03	110.77
2	Е	3	XYP	C5-O5-C1	2.06	114.69	111.52
2	Е	2	XYP	O3-C3-C2	-2.02	106.13	109.99

There are no chirality outliers.

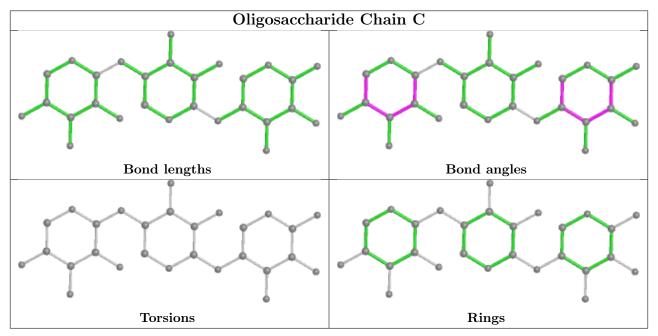
There are no torsion outliers.

There are no ring outliers.

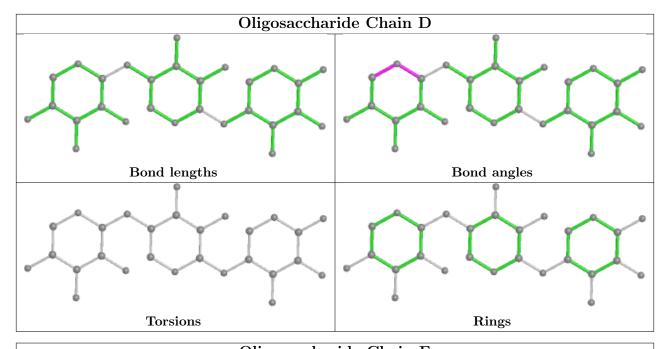
1 monomer is involved in 1 short contact:

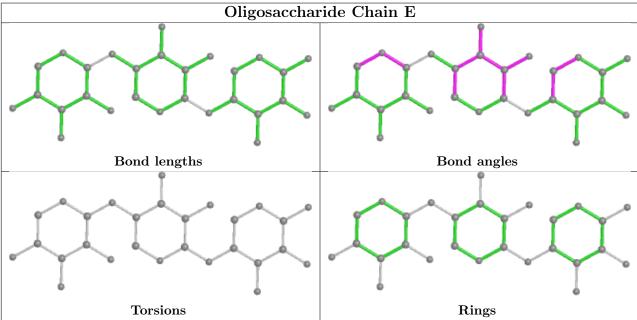
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	Ε	1	XYP	1	0

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

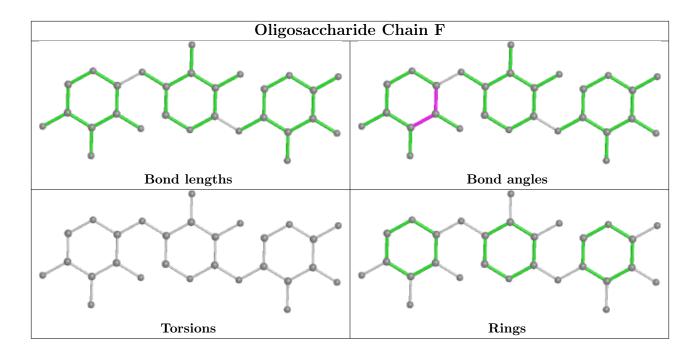












5.6 Ligand geometry (i)

1 ligand is 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	Chain	Res	Ros	Ros	Ros	Ros	Link	В	ond leng	$_{ m gths}$	В	ond ang	gles
MIOI	Type	LIIIK			Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2					
3	ACY	A	1022	-	3,3,3	0.74	0	3,3,3	0.85	0					

There are no bond length outliers.

There are no bond angle outliers.

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^{th} 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	$\langle { m RSRZ} \rangle$	#RSRZ>	>2	$OWAB(Å^2)$	Q < 0.9
1	A	184/185 (99%)	-0.23	2 (1%) 80	78	6, 12, 23, 32	0
1	В	184/185 (99%)	-0.34	1 (0%) 91	89	6, 11, 19, 26	0
All	All	368/370 (99%)	-0.29	3 (0%) 86	84	6, 11, 21, 32	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	2	SER	3.7
1	A	122	ARG	3.3
1	В	121	ASP	2.6

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^{th} 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.

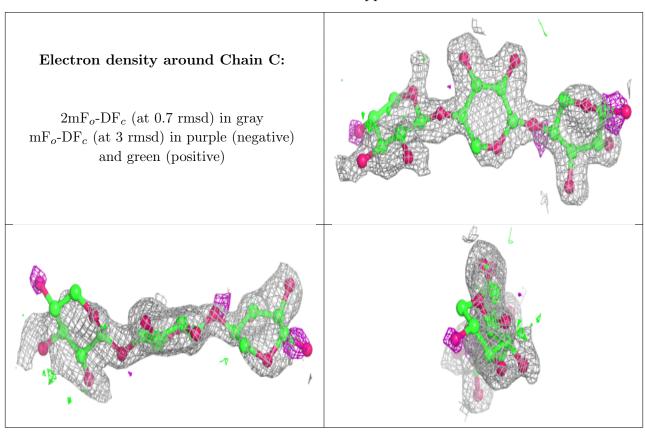
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	XYP	Е	1	10/10	0.65	0.49	44,49,50,50	0
2	XYP	С	3	9/10	0.69	0.33	44,47,49,51	0
2	XYP	Е	2	9/10	0.72	0.22	29,33,37,37	0
2	XYP	D	3	9/10	0.77	0.25	39,40,42,43	0
2	XYP	Е	3	9/10	0.80	0.27	24,30,32,33	0
2	XYP	F	1	10/10	0.84	0.27	25,29,31,32	0



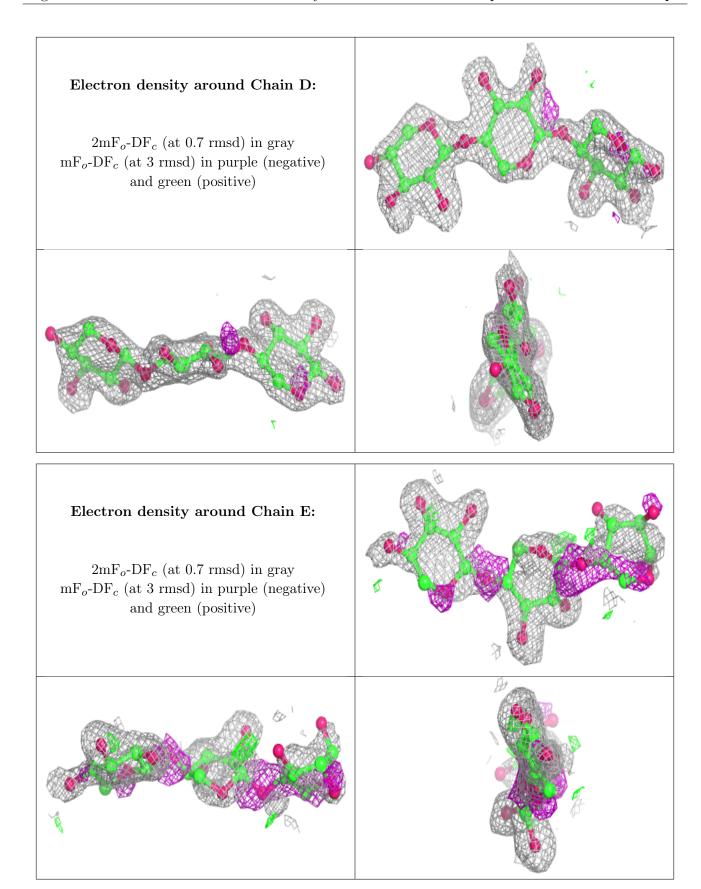
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	XYP	С	1	10/10	0.85	0.25	30,33,36,39	0
2	XYP	С	2	9/10	0.85	0.17	24,30,34,38	0
2	XYP	F	3	9/10	0.85	0.18	30,32,34,38	0
2	XYP	D	1	10/10	0.88	0.19	16,24,27,29	0
2	XYP	D	2	9/10	0.88	0.19	31,33,35,37	0
2	XYP	F	2	9/10	0.90	0.13	15,21,25,25	0

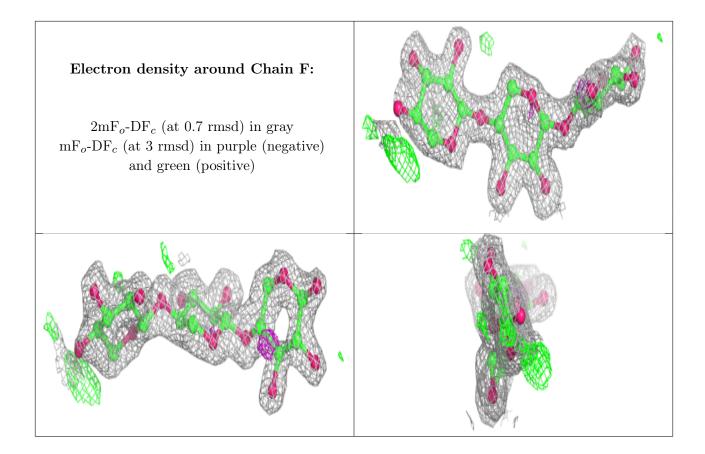
The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.











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^{th} 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	${f B-factors}({f \AA}^2)$	Q<0.9
3	ACY	A	1022	4/4	0.95	0.08	20,21,21,21	0

6.5 Other polymers (i)

There are no such residues in this entry.

