

# wwPDB X-ray Structure Validation Summary Report (i)

#### Oct 14, 2023 – 01:58 PM EDT

PDB ID : 7RDG

Title: Crystal structure of D103A human Galectin-7 mutant in presence of lactose

Authors: Pham, N.T.H.; Calmettes, C.; Doucet, N.

Deposited on : 2021-07-09

Resolution : 3.00 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
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:

MolProbity : 4.02b-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) oteins) : Engh & Huber (2001)

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

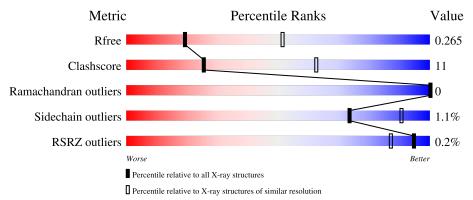
Validation Pipeline (wwPDB-VP) : 2.36

## 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.00 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\AA)}) \end{array}$
$R_{free}$	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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	135	77%	21%	<del>-</del> .
1	В	135	74%	24%	
1	С	135	81%	16%	
1	D	135	79%	20%	
2	Е	2	100%		



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Mol	Chain	Length	Quality of chain
2	F	2	100%
2	G	2	100%
2	Н	2	100%



# 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 8574 atoms, of which 4202 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 Galectin-7.

Mol	Chain	Residues		Atoms					ZeroOcc	AltConf	Trace
1	C	133	Total	С	Н	N	О	S	0	0	0
1		133	2049	656	1008	198	186	1	U	U	
1	В	133	Total	С	Н	N	О	S	0	1	0
1	Б	133	2076	660	1029	199	187	1	0		
1	Λ	133	Total	С	Н	N	О	S	0	0	0
1	A	133	2066	656	1025	198	186	1	U	0	U
1	1 D	134	Total	С	Н	N	О	S	0	0	0
1		104	2083	660	1034	200	188	1	U	U	U

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	103	ALA	ASP	engineered mutation	UNP P47929
В	103	ALA	ASP	engineered mutation	UNP P47929
A	103	ALA	ASP	engineered mutation	UNP P47929
D	103	ALA	ASP	engineered mutation	UNP P47929

 $\bullet$  Molecule 2 is an oligosaccharide called beta-D-galactopyranose-(1-4)-alpha-D-glucopyranos e.



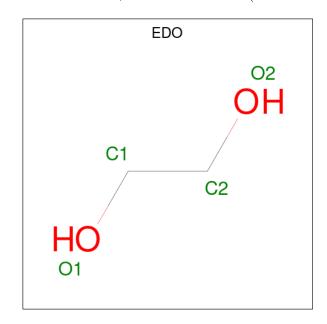
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	Е	2	Total C H O 45 12 22 11	0	0	0
2	F	2	Total C H O 45 12 22 11	0	0	0
2	G	2	Total C H O 45 12 22 11	0	0	0



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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	Н	2	Total 45	C 12	22	O 11	0	0	0

• Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).



Mol	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf	
9	C	1	Total	С	Н	О	0	0	
)	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1	10	2	6	2	0	U	
2	Λ	1	Total	С	Н	О	0	0	
)	A	1	10	2	6	2	0	U	
3	A	Λ	Λ 1	Total	С	Н	O	0	0
J		1	10	2	6	2	U	U	

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	С	22	Total O 22 22	0	0
4	В	25	Total O 25 25	0	0
4	A	25	Total O 25 25	0	0
4	D	18	Total O 18 18	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: Galectin-7





$\forall$	2
$\circ$	
а	V
5	C

• Molecule 2: beta-D-galactopyranose-(1-4)-alpha-D-glucopyranose

Chain G: 100%

GLC1

• Molecule 2: beta-D-galactopyranose-(1-4)-alpha-D-glucopyranose

Chain H: 100%

GLC1 GAL2



# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	30.33Å 112.28Å 77.04Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $91.08^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	38.51 - 3.00	Depositor
resolution (A)	45.37 - 2.26	EDS
% Data completeness	98.6 (38.51-3.00)	Depositor
(in resolution range)	$80.3 \ (45.37 - 2.26)$	EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.29  (at  2.27Å)	Xtriage
Refinement program	PHENIX 1.19.2-4158	Depositor
$R, R_{free}$	0.204 , $0.268$	Depositor
it, it <sub>free</sub>	0.201 , $0.265$	DCC
$R_{free}$ test set	1993 reflections $(8.50\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	31.9	Xtriage
Anisotropy	0.727	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.38, 16.4	EDS
L-test for twinning <sup>2</sup>	$< L >=0.52, < L^2>=0.35$	Xtriage
Estimated twinning fraction	0.230  for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	8574	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.59% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: EDO, GLC, GAL

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
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	A	0.71	0/1067	0.86	0/1444
1	В	0.74	0/1076	0.91	0/1456
1	С	0.70	0/1067	0.86	0/1444
1	D	0.68	0/1075	0.86	0/1455
All	All	0.71	0/4285	0.87	0/5799

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	1041	1025	1028	18	0
1	В	1047	1029	1036	28	0
1	С	1041	1008	1028	16	0
1	D	1049	1034	1034	31	0
2	Ε	23	22	21	0	0
2	F	23	22	21	0	0
2	G	23	22	21	0	0
2	Н	23	22	21	0	0
3	A	8	12	12	0	0



Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	С	4	6	6	0	0
4	A	25	0	0	0	0
4	В	25	0	0	0	0
4	С	22	0	0	0	0
4	D	18	0	0	0	0
All	All	4372	4202	4228	90	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 11.

The worst 5 of 90 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$egin{aligned}  ext{Clash} \  ext{overlap } ( ext{Å}) \end{aligned}$
1:D:37:LEU:HD12	1:D:120:LEU:HD22	1.51	0.89
1:D:9:LEU:HD13	1:D:13:ILE:HG23	1.55	0.89
1:D:111:HIS:CE1	1:D:115:LEU:HD21	2.10	0.87
1:C:13:ILE:CD1	1:C:115:LEU:HD22	2.12	0.79
1:A:26:PRO:HD2	1:A:126:ASP:O	1.82	0.79

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	entiles
1	A	131/135 (97%)	124 (95%)	7 (5%)	0	100	100
1	В	132/135 (98%)	130 (98%)	2 (2%)	0	100	100
1	С	131/135 (97%)	127 (97%)	4 (3%)	0	100	100
1	D	132/135 (98%)	124 (94%)	8 (6%)	0	100	100
All	All	526/540 (97%)	505 (96%)	21 (4%)	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	Percei	ntiles
1	A	111/113 (98%)	109 (98%)	2 (2%)	59	85
1	В	112/113 (99%)	112 (100%)	0	100	100
1	С	111/113 (98%)	109 (98%)	2 (2%)	59	85
1	D	112/113 (99%)	111 (99%)	1 (1%)	78	92
All	All	$446/452 \ (99\%)$	441 (99%)	5 (1%)	73	90

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

Mol	Chain	Res	Type
1	С	94	ASP
1	С	110	ARG
1	A	66	GLN
1	A	133	ARG
1	D	8	SER

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)

8 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	Во	ond leng	ths	Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	GLC	Е	1	2	12,12,12	1.41	2 (16%)	17,17,17	1.85	7 (41%)
2	GAL	Е	2	2	11,11,12	1.84	3 (27%)	15,15,17	2.57	7 (46%)
2	GLC	F	1	2	12,12,12	1.30	2 (16%)	17,17,17	2.78	7 (41%)
2	GAL	F	2	2	11,11,12	1.77	2 (18%)	15,15,17	1.38	1 (6%)
2	GLC	G	1	2	12,12,12	1.43	1 (8%)	17,17,17	2.30	4 (23%)
2	GAL	G	2	2	11,11,12	2.00	2 (18%)	15,15,17	2.79	8 (53%)
2	GLC	Н	1	2	12,12,12	1.48	1 (8%)	17,17,17	1.97	5 (29%)
2	GAL	Н	2	2	11,11,12	1.94	2 (18%)	15,15,17	2.17	3 (20%)

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	Ε	1	2	-	1/2/22/22	0/1/1/1
2	GAL	Ε	2	2	-	0/2/19/22	0/1/1/1
2	GLC	F	1	2	-	1/2/22/22	0/1/1/1
2	GAL	F	2	2	-	1/2/19/22	0/1/1/1
2	GLC	G	1	2	-	2/2/22/22	0/1/1/1
2	GAL	G	2	2	-	0/2/19/22	0/1/1/1
2	GLC	Н	1	2	-	2/2/22/22	0/1/1/1
2	GAL	Н	2	2	-	0/2/19/22	0/1/1/1

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

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	Ideal(A)
2	G	2	GAL	O5-C1	5.52	1.52	1.43
2	Н	2	GAL	O5-C1	5.21	1.52	1.43
2	Е	2	GAL	O5-C1	4.71	1.51	1.43
2	F	2	GAL	O5-C1	4.68	1.51	1.43
2	G	1	GLC	O5-C1	4.02	1.52	1.42



The worst 5 of 42 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	G	1	GLC	C4-C3-C2	6.49	122.15	110.82
2	Н	2	GAL	C1-C2-C3	6.20	117.29	109.67
2	G	2	GAL	C1-C2-C3	6.15	117.23	109.67
2	F	1	GLC	O5-C1-C2	5.43	119.97	110.28
2	F	1	GLC	C4-C3-C2	5.17	119.85	110.82

There are no chirality outliers.

5 of 7 torsion outliers are listed below:

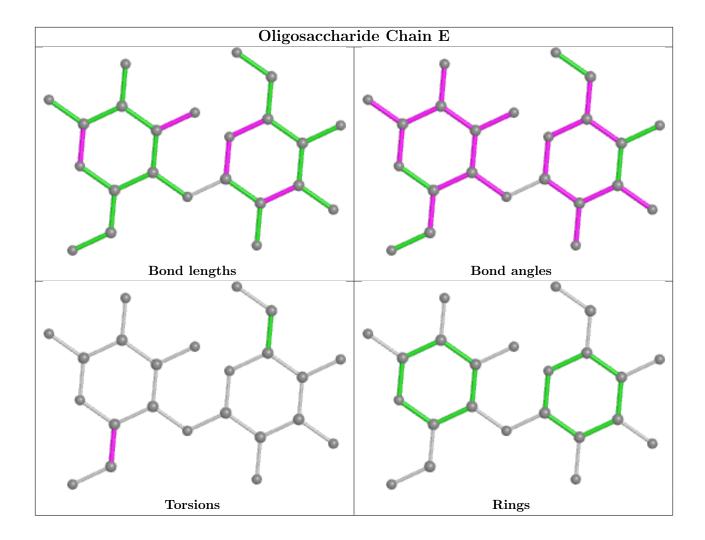
Mol	Chain	Res	Type	Atoms
2	Н	1	GLC	C4-C5-C6-O6
2	Н	1	GLC	O5-C5-C6-O6
2	G	1	GLC	C4-C5-C6-O6
2	F	2	GAL	C4-C5-C6-O6
2	Е	1	GLC	C4-C5-C6-O6

There are no ring outliers.

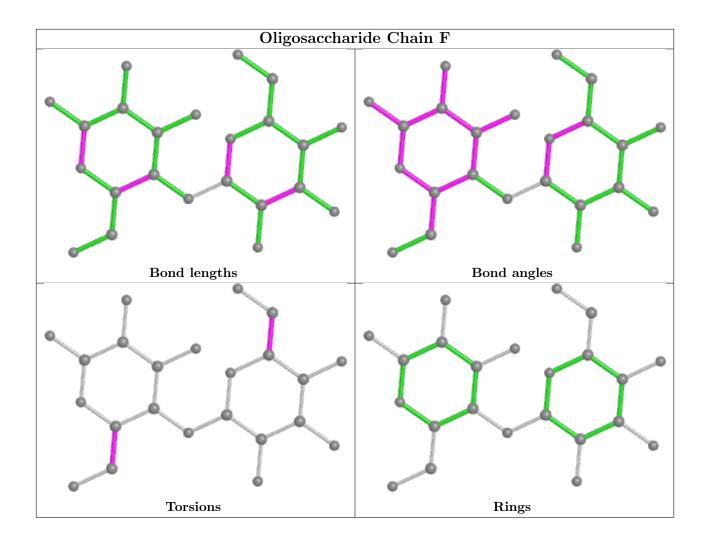
No monomer is involved in short contacts.

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

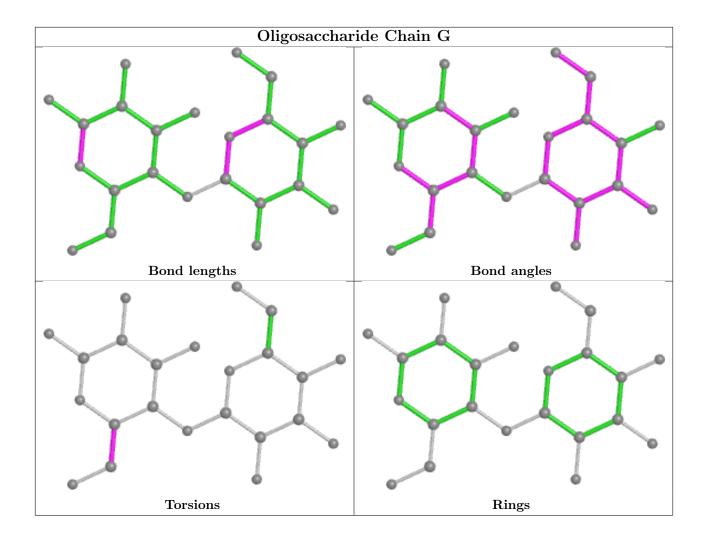




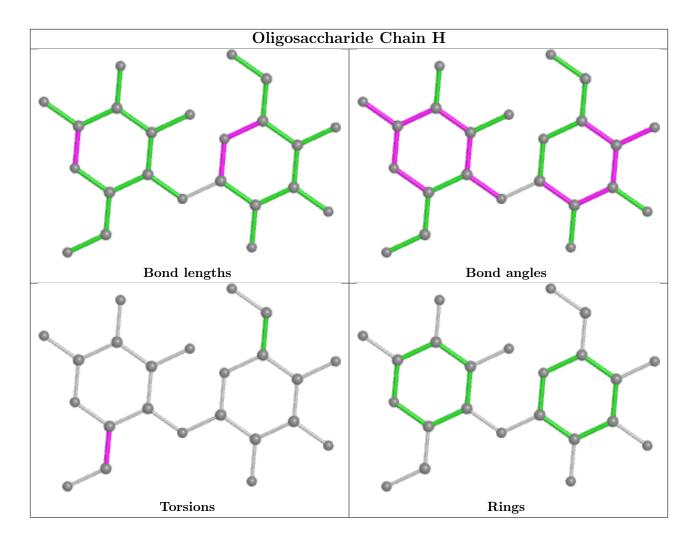












## 5.6 Ligand geometry (i)

3 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 Ty	Type	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain Doc	Res	tes Link	Bond lengths			Bond angles		
WIOI	Moi Type Chain K	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2																	
3	EDO	A	201	-	3,3,3	0.82	0	2,2,2	0.41	0																
3	EDO	A	202	-	3,3,3	0.85	0	2,2,2	0.41	0																
3	EDO	С	201	-	3,3,3	0.82	0	2,2,2	0.36	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
3	EDO	A	201	-	-	0/1/1/1	-
3	EDO	A	202	-	-	0/1/1/1	-
3	EDO	С	201	-	-	0/1/1/1	-

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	<rsrz></rsrz>	# RSRZ > 2	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	133/135 (98%)	-0.71	0 100 100	24, 36, 55, 82	0
1	В	133/135 (98%)	-0.69	0 100 100	21, 34, 53, 78	0
1	С	133/135 (98%)	-0.73	0 100 100	21, 34, 58, 75	0
1	D	134/135 (99%)	-0.65	1 (0%) 87 69	24, 36, 58, 86	0
All	All	533/540 (98%)	-0.70	1 (0%) 95 87	21, 35, 58, 86	0

#### All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	11	GLU	2.9

## 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.

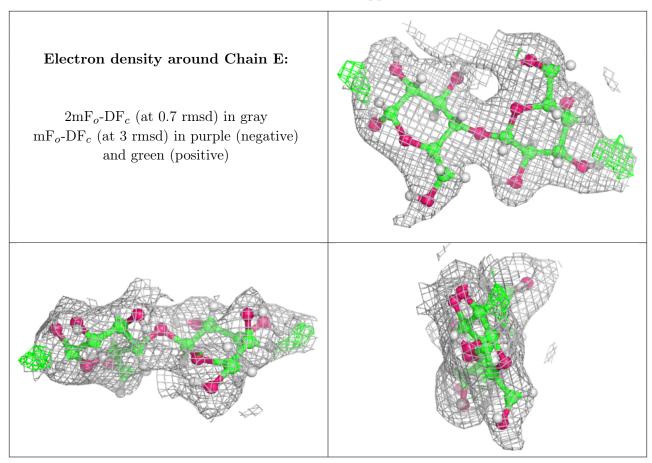
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	GLC	F	1	12/12	0.86	0.15	28,28,30,30	0
2	GLC	Е	1	12/12	0.93	0.13	22,33,50,57	0
2	GLC	Н	1	12/12	0.93	0.12	21,33,43,46	0
2	GAL	G	2	11/12	0.94	0.12	22,32,40,41	0
2	GAL	F	2	11/12	0.94	0.13	28,28,30,30	0
2	GAL	E	2	11/12	0.95	0.15	12,23,29,35	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	GLC	G	1	12/12	0.95	0.11	23,31,41,49	0
2	GAL	Н	2	11/12	0.96	0.14	20,31,38,39	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.

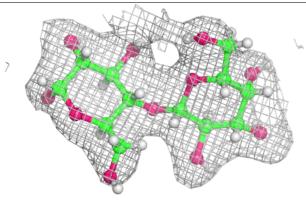


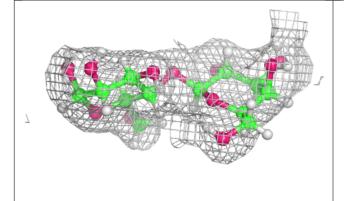


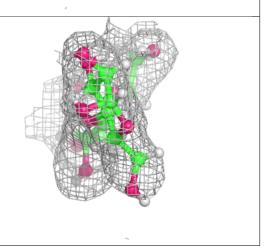
# Electron density around Chain F: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${ m mF}_o{ m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

#### Electron density around Chain G:

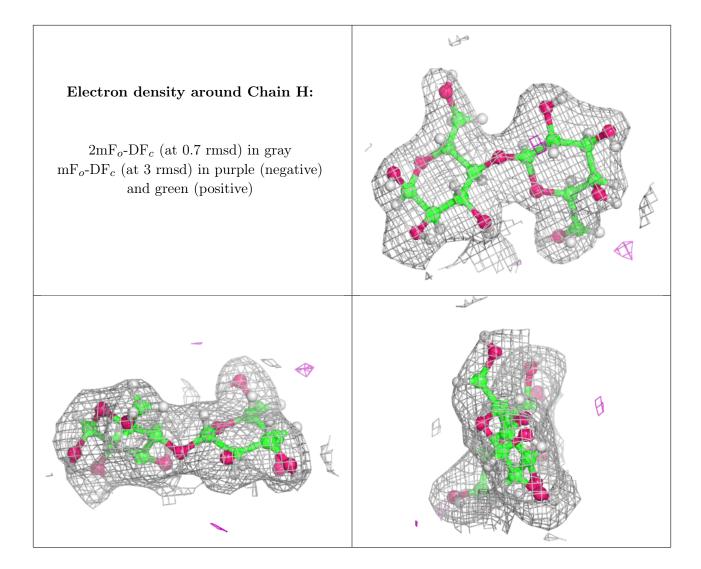
 $2mF_o$ -DF<sub>c</sub> (at 0.7 rmsd) in gray  ${\rm mF}_o\text{-}{\rm DF}_c$  (at 3 rmsd) in purple (negative) and green (positive)











## 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	${f B-factors}({f A}^2)$	Q<0.9
3	EDO	С	201	4/4	0.48	0.33	57,57,62,62	0
3	EDO	A	202	4/4	0.79	0.36	47,47,47,47	0
3	EDO	A	201	4/4	0.88	0.17	32,60,104,107	0

## 6.5 Other polymers (i)

There are no such residues in this entry.

