

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

#### Jun 12, 2024 – 07:19 PM EDT

PDB ID : 1JZN

Title : crystal structure of a galactose-specific C-type lectin

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Deposited on : 2001-09-16

Resolution : 2.20 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 : 2.36.2

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)

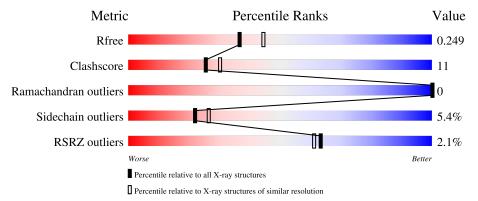
Validation Pipeline (wwPDB-VP) : 2.36.2

## 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 2.20 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}({\rm \AA})) \end{array}$
$R_{free}$	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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	81%	18%	
1	В	135	70%	25%	•
1	С	135	75%	24%	
1	D	135	62%	34%	•
1	Е	135	81%	15%	•



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Mol	Chain	Length	Quality of chain			
2	F	2	1009	6		
2	G	2	100%			
2	Н	2	50%	50%		
2	I	2	50%	50%		
2	J	2	1009	6		



# 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 6395 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 Galactose-specific lectin.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	135	Total	С	N	О	S	0	0	0
1	Λ	155	1146	732	191	212	11	0	0	0
1	В	135	Total	С	N	О	S	0	0	0
1	Б	133	1146	732	191	212	11	0	U	0
1	C	135	Total	С	N	О	S	0	0	0
1		133	1146	732	191	212	11	0		
1	D	135	Total	С	N	О	S	0	0	0
1	D	133	1146	732	191	212	11	0	0	0
1	Е	125	Total	С	N	О	S	0	0	0
1	1 E	135	1146	732	191	212	11		U	U

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



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	F	2	Total C O 23 12 11	0	0	0
2	G	2	Total C O 23 12 11	0	0	0
2	Н	2	Total C O 23 12 11	0	0	0
2	I	2	Total C O 23 12 11	0	0	0
2	J	2	Total C O 23 12 11	0	0	0

• Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Ca 1 1	0	0
3	В	1	Total Ca 1 1	0	0
3	С	1	Total Ca 1 1	0	0
3	D	1	Total Ca 1 1	0	0
3	Е	1	Total Ca 1 1	0	0

• Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Na 1 1	0	0
4	В	1	Total Na 1 1	0	0
4	С	1	Total Na 1 1	0	0
4	D	1	Total Na 1 1	0	0
4	E	1	Total Na 1 1	0	0

• Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	Total Cl 1 1	0	0

• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	145	Total O 145 145	0	0
6	В	110	Total O 110 110	0	0
6	С	72	Total O 72 72	0	0
6	D	70	Total O 70 70	0	0



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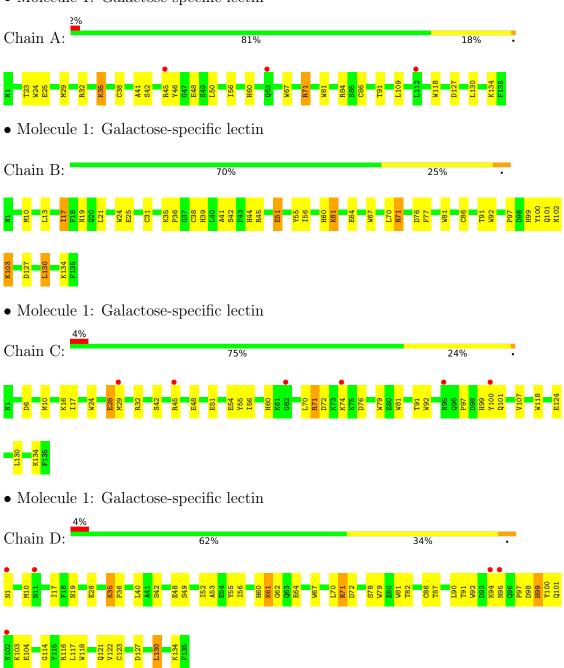
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	Е	142	Total O 142 142	0	0



# 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: Galactose-specific lectin





• Molecule 1: Galactose-specific lectin	
Chain E: 81%	15% •
117 K K 22 T 28 W 24 W 24 W 24 W 28 K 35 K 35 K 35 K 35 K 35 K 35 K 36	K134 F135
• Molecule 2: beta-D-galactopyranose-(1-4)-beta-D-glucopyran	ıose
Chain F: 100%	
B001 GAL2	
• Molecule 2: beta-D-galactopyranose-(1-4)-beta-D-glucopyran	ıose
Chain G: 100%	
6412 6412	
• Molecule 2: beta-D-galactopyranose-(1-4)-beta-D-glucopyran	ıose
Chain H: 50% 50%	
GAL2	
• Molecule 2: beta-D-galactopyranose-(1-4)-beta-D-glucopyran	ıose
Chain I: 50% 50%	
GAL2	
• Molecule 2: beta-D-galactopyranose-(1-4)-beta-D-glucopyran	ıose
Chain J:	
CALZ GALZ	



# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants	63.31Å 178.49Å 137.83Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	37.46 - 2.20	Depositor
rtesolution (A)	37.46 - 1.91	EDS
% Data completeness	96.2 (37.46-2.20)	Depositor
(in resolution range)	78.4 (37.46-1.91)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.06	Depositor
$< I/\sigma(I) > 1$	2.12 (at 1.91Å)	Xtriage
Refinement program	CNS 0.9	Depositor
P. P.	0.198 , 0.251	Depositor
$R, R_{free}$	0.193 , 0.249	DCC
$R_{free}$ test set	1170 reflections (2.44%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	27.1	Xtriage
Anisotropy	0.548	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.35, 50.7	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	6395	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.78% 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: BGC, GAL, NA, CL, CA

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	Bo	nd angles
MIOI		RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	A	0.57	0/1182	0.75	0/1597
1	В	0.52	0/1182	0.75	0/1597
1	С	0.45	0/1182	0.68	0/1597
1	D	0.44	0/1182	0.69	1/1597 (0.1%)
1	Е	0.61	0/1182	0.77	1/1597 (0.1%)
All	All	0.52	0/5910	0.73	$2/7985 \ (0.0\%)$

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
1	D	130	LEU	CA-CB-CG	5.28	127.45	115.30
1	Е	130	LEU	CA-CB-CG	5.26	127.39	115.30

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	1146	0	1058	18	0
1	В	1146	0	1059	24	0
1	С	1146	0	1059	21	0
1	D	1146	0	1058	39	0



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Mol	Chain	Non-H		H(added)	Clashes	Symm-Clashes
1	Ε	1146	0	1058	18	0
2	F	23	0	20	0	0
2	G	23	0	19	0	0
2	Н	23	0	19	1	0
2	I	23	0	20	0	0
2	J	23	0	21	0	0
3	A	1	0	0	0	0
3	В	1	0	0	0	0
3	С	1	0	0	0	0
3	D	1	0	0	0	0
3	Е	1	0	0	0	0
4	A	1	0	0	0	0
4	В	1	0	0	0	0
4	С	1	0	0	0	0
4	D	1	0	0	0	0
4	Ε	1	0	0	0	0
5	В	1	0	0	0	0
6	A	145	0	0	4	0
6	В	110	0	0	1	0
6	С	72	0	0	1	0
6	D	70	0	0	4	0
6	Е	142	0	0	2	0
All	All	6395	0	5391	119	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 119 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{aligned} &  ext{Interatomic} \ &  ext{distance} \ &  ext{(Å)} \end{aligned}$	Clash overlap (Å)	
1:C:17:ILE:HG21	1:C:56:ILE:HG12	1.38	1.04	
1:D:35:LYS:HE2	1:D:134:LYS:O	1.75	0.86	
1:C:17:ILE:CG2	1:C:56:ILE:HG12	2.12	0.79	
1:C:45:ARG:HG2	1:C:48:GLU:HG3	1.65	0.78	
1:D:91:THR:HG21	6:D:4180:HOH:O	1.85	0.77	

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	ntiles
1	A	133/135 (98%)	131 (98%)	2 (2%)	0	100	100
1	В	133/135 (98%)	129 (97%)	4 (3%)	0	100	100
1	С	133/135 (98%)	129 (97%)	4 (3%)	0	100	100
1	D	133/135 (98%)	126 (95%)	7 (5%)	0	100	100
1	E	133/135 (98%)	131 (98%)	2 (2%)	0	100	100
All	All	665/675~(98%)	646 (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	125/125 (100%)	122 (98%)	3 (2%)	49	62	
1	В	125/125 (100%)	116 (93%)	9 (7%)	14	15	
1	C	125/125 (100%)	118 (94%)	7 (6%)	21	25	
1	D	125/125 (100%)	116 (93%)	9 (7%)	14	15	
1	E	125/125 (100%)	119 (95%)	6 (5%)	25	32	
All	All	$625/625 \ (100\%)$	591 (95%)	34 (5%)	22	26	

5 of 34 residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	Е	17	ILE
1	Е	28	GLU
1	Е	71	ARG
1	С	28	GLU
1	В	130	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	2	ASN
1	D	11	ASN
1	D	99	HIS
1	D	39	HIS
1	D	95	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)

10 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	Type	Chain	Res	es Link	Bo	Bond lengths			Bond angles		
WIOI	Wildi Type Chain	Chain			Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
2	BGC	F	1	2	12,12,12	0.39	0	17,17,17	0.46	0	
2	GAL	F	2	2,3	11,11,12	0.58	0	15,15,17	0.46	0	
2	BGC	G	1	2	12,12,12	0.51	0	17,17,17	0.63	0	
2	GAL	G	2	2,3	11,11,12	0.51	0	15,15,17	0.44	0	



Mol	Tuno	Chain	Res	Link	Вс	Bond lengths			Bond angles		
Mol   Type   Cha	Chain	rtes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2		
2	BGC	Н	1	2	12,12,12	0.41	0	17,17,17	0.36	0	
2	GAL	Н	2	2,3	11,11,12	0.49	0	15,15,17	0.56	0	
2	BGC	I	1	2	12,12,12	0.46	0	17,17,17	0.52	0	
2	GAL	I	2	2,3	11,11,12	0.65	0	15,15,17	0.85	1 (6%)	
2	BGC	J	1	2	12,12,12	0.72	0	17,17,17	0.51	0	
2	GAL	J	2	2,3	11,11,12	0.68	0	15,15,17	0.52	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	BGC	F	1	2	-	0/2/22/22	0/1/1/1
2	GAL	F	2	2,3	-	1/2/19/22	0/1/1/1
2	BGC	G	1	2	-	0/2/22/22	0/1/1/1
2	GAL	G	2	2,3	-	0/2/19/22	0/1/1/1
2	BGC	Н	1	2	-	0/2/22/22	0/1/1/1
2	GAL	Н	2	2,3	-	0/2/19/22	0/1/1/1
2	BGC	I	1	2	-	0/2/22/22	0/1/1/1
2	GAL	I	2	2,3	-	1/2/19/22	0/1/1/1
2	BGC	J	1	2	-	0/2/22/22	0/1/1/1
2	GAL	J	2	2,3	-	0/2/19/22	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

$\mathbf{Mol}$	Chain	$\operatorname{Res}$	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}(^{o})$
2	I	2	GAL	C1-C2-C3	2.59	112.84	109.67

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	I	2	GAL	C4-C5-C6-O6
2	F	2	GAL	C4-C5-C6-O6

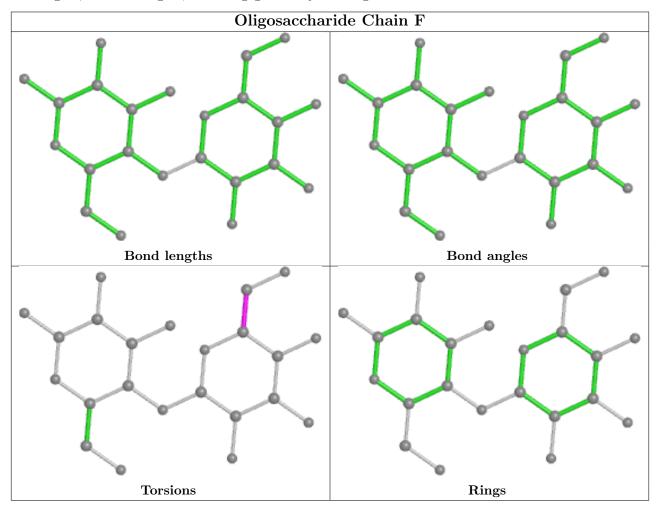
There are no ring outliers.

1 monomer is involved in 1 short contact:

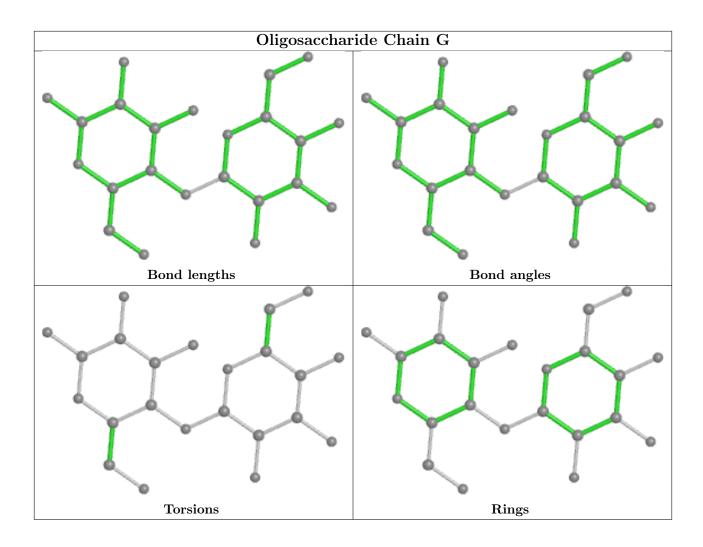


Mol	Chain	$\operatorname{Res}$	Type	Clashes	Symm-Clashes
2	Н	2	GAL	1	0

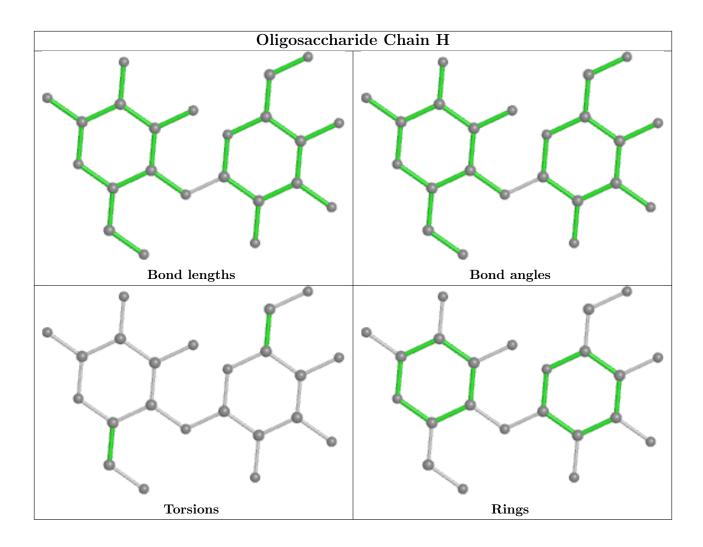
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.



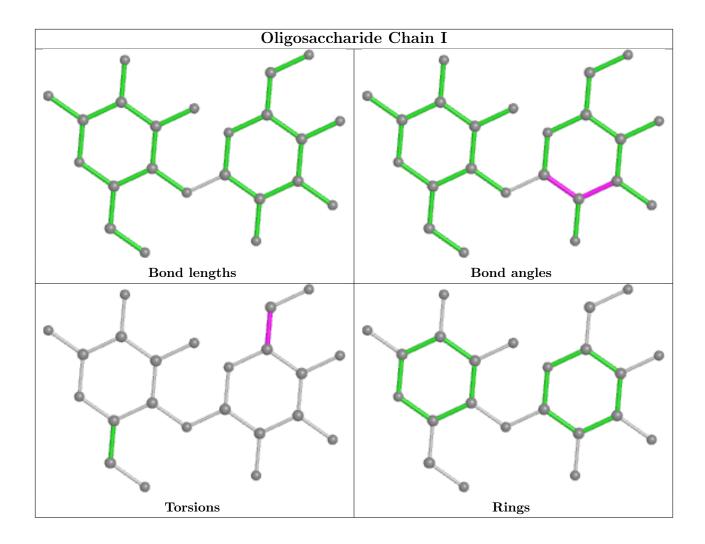




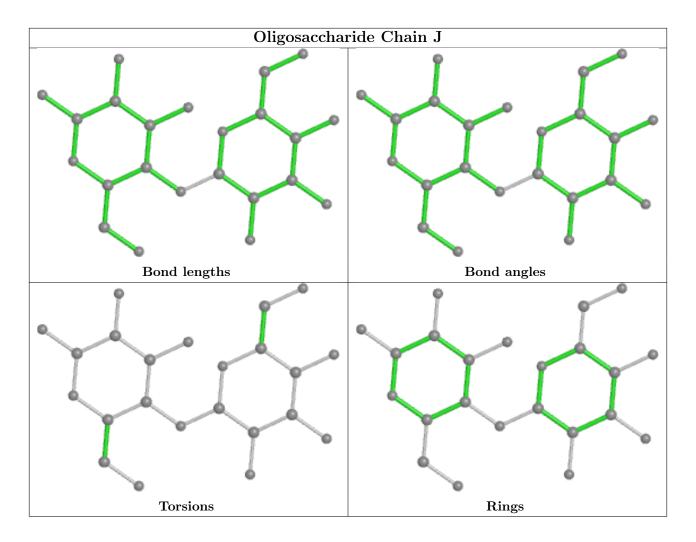












## 5.6 Ligand geometry (i)

Of 11 ligands modelled in this entry, 11 are monoatomic - leaving 0 for Mogul analysis.

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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	135/135 (100%)	-0.51	3 (2%) 62 59	17, 26, 40, 54	0
1	В	135/135 (100%)	-0.43	0 100 100	19, 29, 43, 53	0
1	С	135/135 (100%)	0.00	6 (4%) 34 32	28, 40, 60, 63	0
1	D	135/135 (100%)	-0.09	5 (3%) 41 39	26, 41, 63, 67	0
1	E	135/135 (100%)	-0.36	0 100 100	16, 25, 38, 56	0
All	All	675/675 (100%)	-0.28	14 (2%) 63 61	16, 32, 56, 67	0

The worst 5 of 14 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	102	ASN	3.4
1	A	63	GLN	2.9
1	С	45	ARG	2.8
1	С	62	GLY	2.6
1	D	95	ASN	2.5

#### 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.

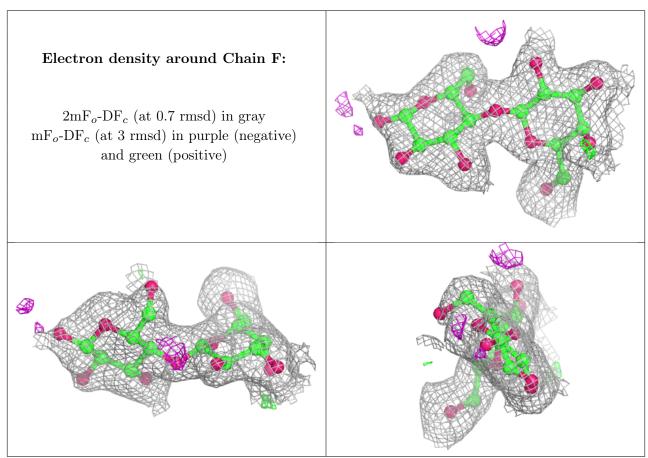
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathrm{\AA}^2)$	Q<0.9
2	BGC	G	1	12/12	0.80	0.19	43,50,54,55	0



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B-factors(\AA^2)}$	Q<0.9
2	BGC	I	1	12/12	0.80	0.24	66,69,70,71	0
2	GAL	I	2	11/12	0.80	0.21	59,61,63,64	0
2	GAL	Н	2	11/12	0.85	0.22	52,57,60,61	0
2	BGC	Н	1	12/12	0.88	0.28	62,66,67,67	0
2	BGC	F	1	12/12	0.88	0.17	43,52,55,57	0
2	GAL	F	2	11/12	0.91	0.11	26,33,36,38	0
2	GAL	G	2	11/12	0.91	0.10	31,36,41,42	0
2	BGC	J	1	12/12	0.92	0.26	31,38,41,45	0
2	GAL	J	2	11/12	0.95	0.08	22,24,28,29	0

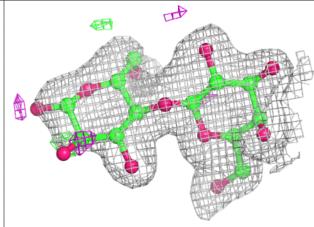
The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.

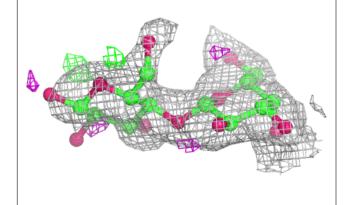


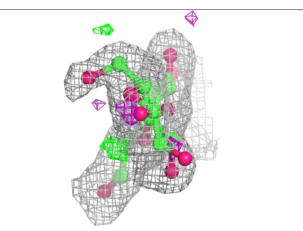


# Electron density around Chain G:

 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$  (at 0.7 rmsd) in gray  $\mathrm{mF}_o\text{-}\mathrm{DF}_c$  (at 3 rmsd) in purple (negative) and green (positive)

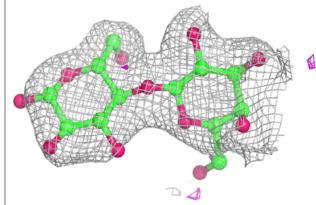


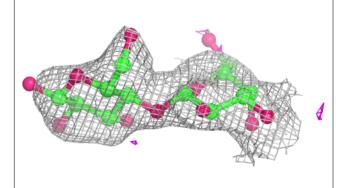


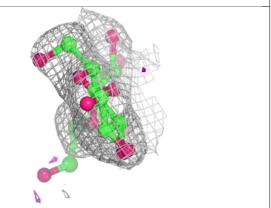


#### Electron density around Chain H:

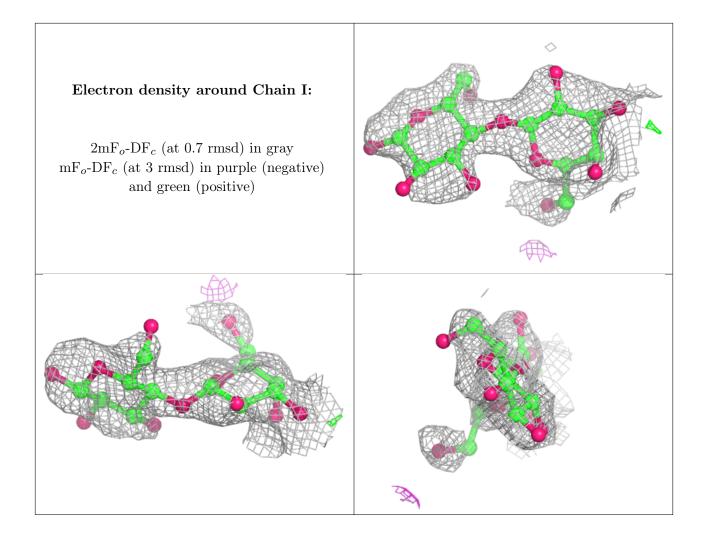
 $2 {
m mF}_o {
m -DF}_c$  (at 0.7 rmsd) in gray  ${
m mF}_o {
m -DF}_c$  (at 3 rmsd) in purple (negative) and green (positive)



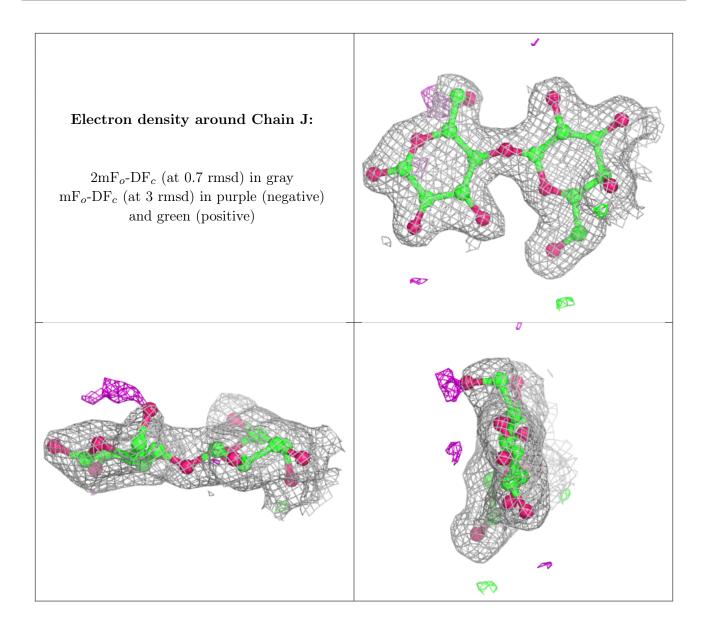












## 6.4 Ligands (i)

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	CA	D	4138	1/1	0.94	0.09	44,44,44,44	0
4	NA	С	3139	1/1	0.95	0.27	33,33,33,33	0
4	NA	В	2139	1/1	0.97	0.05	29,29,29,29	0
4	NA	D	4139	1/1	0.97	0.07	34,34,34,34	0
3	CA	С	3138	1/1	0.98	0.03	41,41,41,41	0
4	NA	Ε	5139	1/1	0.98	0.08	27,27,27,27	0
5	CL	В	1140	1/1	0.98	0.06	27,27,27,27	0



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B-factors}({f \AA}^2)$	Q<0.9
4	NA	A	1139	1/1	0.99	0.08	24,24,24,24	0
3	CA	A	1138	1/1	0.99	0.07	23,23,23,23	0
3	CA	В	2138	1/1	1.00	0.05	25,25,25,25	0
3	CA	Е	5138	1/1	1.00	0.09	20,20,20,20	0

# 6.5 Other polymers (i)

There are no such residues in this entry.

