

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

#### Aug 9, 2020 – 03:49 PM BST

PDB ID	:	4K0O
Title	:	F17b-G lectin domain with bound GlcNAc(beta1-3)Gal
Authors	:	Buts, L.; Loris, R.; Bouckaert, J.; Moonens, K.
Deposited on	:	2013-04-04
Resolution	:	2.15  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 following versions of software and data (see references (1)) were used in the production of this report:

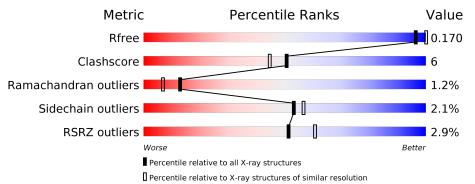
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.13.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.13.1

# 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 2.15 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
$R_{free}$	130704	1479 (2.16-2.16)
Clashscore	141614	1585(2.16-2.16)
Ramachandran outliers	138981	$1560 \ (2.16-2.16)$
Sidechain outliers	138945	1559 (2.16-2.16)
RSRZ outliers	127900	1456 (2.16-2.16)

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 on 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	А	176	3% 84%	14%	•••
2	В	2	100%		_



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# 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 1428 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 F17b-G fimbrial adhesin.

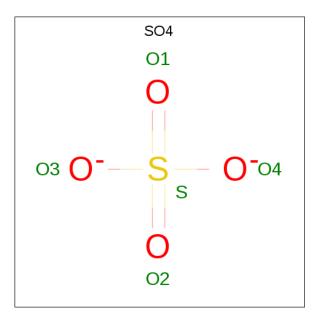
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	175	Total 1322	C 829	N 226	O 261	S 6	0	0	0

• Molecule 2 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-3)-me thyl beta-D-galactopyranoside.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	В	2	Total         C         N         O           27         15         1         11	0	0	0

• Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O<sub>4</sub>S).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0

• Molecule 4 is NICKEL (II) ION (three-letter code: NI) (formula: Ni).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	2	Total Ni 2 2	0	0

• Molecule 5 is water.

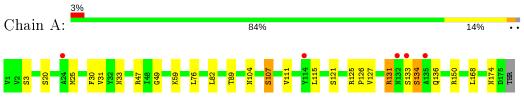
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	62	$\begin{array}{cc} \text{Total} & \text{O} \\ 62 & 62 \end{array}$	0	0



# 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: F17b-G fimbrial adhesin



• Molecule 2: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-3)-methyl beta-D-galactopyranosid e

Chain B:

100%

MBG1 NAG2



# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 62	Depositor
Cell constants	87.65Å $87.65$ Å $57.02$ Å	D :+
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $120.00^{\circ}$	Depositor
	43.82 - 2.15	Depositor
Resolution (Å)	43.82 - 2.15	EDS
% Data completeness	99.8 (43.82-2.15)	Depositor
(in resolution range)	99.8 (43.82-2.15)	EDS
R <sub>merge</sub>	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$13.49 (at 2.16 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.8.1_1168	Depositor
D D	0.168 , $0.180$	Depositor
$R, R_{free}$	0.172 , $0.170$	DCC
$R_{free}$ test set	703 reflections $(5.14\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	53.1	Xtriage
Anisotropy	0.175	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.35 , $47.5$	EDS
L-test for twinning <sup>2</sup>	$< L >=0.41, < L^2>=0.24$	Xtriage
Estimated twinning fraction	0.400 for h,-h-k,-l	Xtriage
Reported twinning fraction	0.410 for h,-h-k,-l	Depositor
Outliers	0  of  13675  reflections	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	1428	wwPDB-VP
Average B, all atoms $(Å^2)$	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.02% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;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.



<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: NI, MBG, NAG, ALY, SO4

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		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.32	0/1339	0.47	0/1822	

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	А	1322	0	1258	15	0
2	В	27	0	25	0	0
3	А	15	0	0	0	0
4	А	2	0	0	0	0
5	А	62	0	0	1	1
All	All	1428	0	1283	15	1

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 6.

All (15) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:GLY:HA3	1:A:115:LEU:HD23	1.82	0.61
1:A:104:ASN:OD1	1:A:150:ARG:NH1	2.37	0.57
1:A:134:SER:C	1:A:136:GLN:H	2.14	0.50
1:A:20:SER:OG	1:A:174:ASN:HB2	2.15	0.47
1:A:107:SER:O	1:A:150:ARG:NH2	2.48	0.46
1:A:125:ARG:HA	1:A:126:PRO:HD3	1.77	0.46
1:A:76:LEU:O	5:A:347:HOH:O	2.21	0.45
1:A:82:LEU:HD11	1:A:168:LEU:HD22	1.97	0.45
1:A:31:VAL:HG22	1:A:127:VAL:HG22	1.98	0.44
1:A:131:ARG:HD2	1:A:131:ARG:N	2.33	0.44
1:A:33:ASN:OD1	1:A:125:ARG:NH2	2.52	0.43
1:A:3:SER:OG	1:A:47:ARG:HB3	2.18	0.43
1:A:59:ALY:HH31	1:A:59:ALY:HE3	1.71	0.42
1:A:25:MET:HG2	1:A:30:PHE:CD2	2.56	0.41
1:A:89:THR:O	1:A:121:SER:HB3	2.21	0.40

All (1) 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)
5:A:357:HOH:O	5:A:360:HOH:O[4_555]	2.13	0.07

### 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	А	172/176~(98%)	$161 \ (94\%)$	9~(5%)	2(1%)	13 7	

All (2) Ramachandran outliers are listed below:

Mol	Chain	$\mathbf{Res}$	Type
1	А	134	SER
1	А	133	SER



#### 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	А	145/147~(99%)	142~(98%)	3~(2%)	53 57		

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	107	SER
1	А	111	VAL
1	А	131	ARG

Some 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)

1 non-standard protein/DNA/RNA residue 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	Res	Tink	Bo	ond leng	ths	B	ond ang	gles
	туре	Ullalli	nes	Link	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
1	ALY	А	59	1	10, 11, 12	0.86	0	7,12,14	0.58	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	$\mathbf{Res}$	Link	Chirals	Torsions	Rings
1	ALY	А	59	1	-	4/9/10/12	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	А	59	ALY	OH-CH-NZ-CE
1	А	59	ALY	CH3-CH-NZ-CE
1	А	59	ALY	CG-CD-CE-NZ
1	А	59	ALY	CE-CD-CG-CB

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	А	59	ALY	1	0

### 5.5 Carbohydrates (i)

2 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
	Type	Cham	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	MBG	В	1	2	13, 13, 13	2.23	7 (53%)	$18,\!18,\!18$	2.28	8 (44%)
2	NAG	В	2	2	14,14,15	2.71	9 (64%)	17,19,21	2.10	6 (35%)

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 Dictiona	ry. Similar count	s are reported :	in the Tors	sion and Rings columns.
'-' means no outliers of that ki	nd were identified			
Mol Type Chain Res	Link Chirals	Torsions	Rings	

$\mathbf{Mol}$	$\mathbf{Type}$	Chain	$\mathbf{Res}$	Link	Chirals	Torsions	Rings
2	MBG	В	1	2	-	2/4/24/24	0/1/1/1
2	NAG	В	2	2	-	4/6/23/26	0/1/1/1

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms		$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	В	2	NAG	C3-C2	-5.03	1.41	1.52
2	В	2	NAG	C1-C2	-4.40	1.45	1.52
2	В	1	MBG	C6-C5	-4.17	1.37	1.51
2	В	2	NAG	C6-C5	-4.08	1.38	1.51
2	В	1	MBG	C4-C3	-3.88	1.42	1.52
2	В	2	NAG	O5-C5	2.90	1.49	1.43
2	В	1	MBG	C3-C2	-2.78	1.45	1.52
2	В	2	NAG	C4-C3	-2.67	1.45	1.52
2	В	2	NAG	C8-C7	-2.62	1.45	1.50
2	В	1	MBG	O4-C4	-2.27	1.37	1.43
2	В	1	MBG	O3-C3	2.21	1.48	1.43
2	В	2	NAG	C7-N2	2.19	1.41	1.34
2	В	1	MBG	O5-C5	2.17	1.49	1.44
2	В	2	NAG	C2-N2	2.15	1.50	1.46
2	В	1	MBG	C1-C2	-2.15	1.46	1.52
2	В	2	NAG	O4-C4	-2.14	1.37	1.43

All $(14)$ bond	l angle outliers	are listed below:
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Mol	Chain	$\mathbf{Res}$	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	1	MBG	C7-O1-C1	5.04	121.06	113.27
2	В	2	NAG	C2-N2-C7	-4.22	116.90	122.90
2	В	1	MBG	C4-C3-C2	3.50	116.93	110.82
2	В	2	NAG	C8-C7-N2	3.38	121.82	116.10
2	В	1	MBG	O4-C4-C3	-3.35	102.61	110.35
2	В	2	NAG	C4-C3-C2	3.17	115.66	111.02
2	В	1	MBG	O5-C5-C4	-3.14	104.00	109.69
2	В	1	MBG	O2-C2-C1	-3.06	102.62	110.05
2	В	2	NAG	O5-C5-C4	-2.94	103.67	110.83
2	В	2	NAG	O5-C1-C2	-2.68	107.06	111.29
2	В	2	NAG	C1-C2-N2	-2.67	105.93	110.49
2	В	1	MBG	C1-C2-C3	2.52	115.24	110.00
2	В	1	MBG	O1-C1-C2	2.23	110.76	108.15
2	В	1	MBG	O4-C4-C5	-2.03	104.25	109.30



There are no chirality outliers.

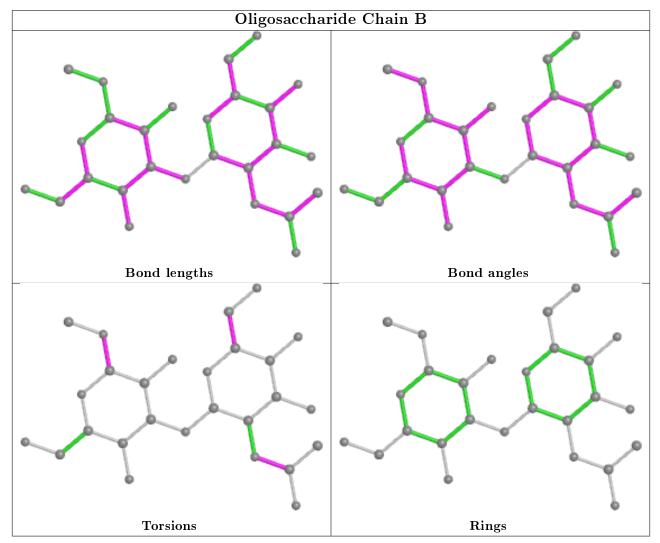
Mol	Chain	Res	Type	Atoms
2	В	1	MBG	O5-C1-O1-C7
2	В	1	MBG	C2-C1-O1-C7
2	В	2	NAG	O5-C5-C6-O6
2	В	2	NAG	C8-C7-N2-C2
2	В	2	NAG	O7-C7-N2-C2
2	В	2	NAG	C4-C5-C6-O6

All (6) torsion outliers are listed below:

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 5 ligands modelled in this entry, 2 are monoatomic - leaving 3 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	Туре	Chain Res Link		Bond lengths			Bond angles			
	Type	Ullaili	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
3	SO4	А	202	-	4,4,4	0.13	0	$^{6,6,6}$	0.08	0
3	SO4	А	201	-	4,4,4	0.12	0	$^{6,6,6}$	0.14	0
3	SO4	А	203	-	4,4,4	0.15	0	$^{6,6,6}$	0.05	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	<RSRZ $>$	#RSRZ	>2	$\mathbf{OWAB}(\mathbf{A}^2)$	Q<0.9
1	А	174/176~(98%)	0.27	5 (2%) 51	61	37, 50, 77, 92	0

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	135	ALA	5.0
1	А	132	ASN	2.9
1	А	24	ALA	2.6
1	А	133	SER	2.3
1	А	114	TYR	2.3

## 6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-factors}(\mathbf{\AA}^2)$	Q<0.9
1	ALY	А	59	12/13	0.88	0.22	$44,\!55,\!89,\!95$	0

## 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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$\mathbf{Q}{<}0.9$
2	MBG	В	1	13/13	0.93	0.11	$64,\!72,\!85,\!88$	0

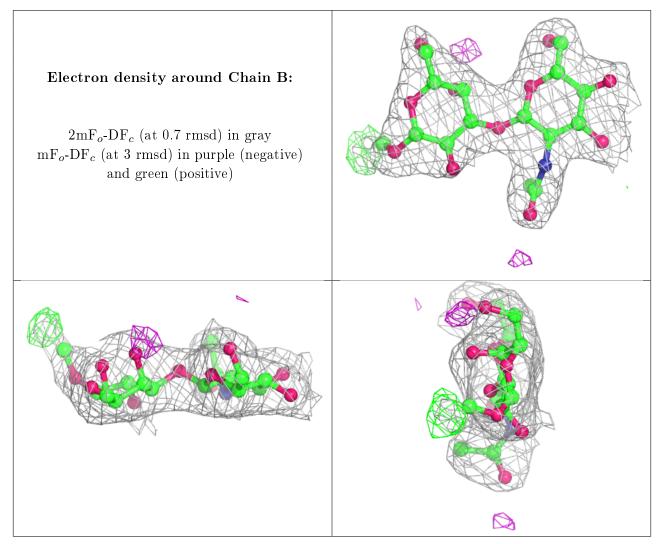
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
2	NAG	В	2	14/15	0.96	0.08	$53,\!60,\!64,\!65$	0

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	$\mathbf{Res}$	Atoms	RSCC	$\mathbf{RSR}$	$\mathbf{B} ext{-factors}(\mathbf{\AA}^2)$	Q<0.9
3	SO4	А	202	5/5	0.81	0.21	$100,\!102,\!117,\!129$	0
3	SO4	А	201	5/5	0.84	0.14	$98,\!100,\!106,\!111$	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	$Q{<}0.9$
3	SO4	А	203	5/5	0.85	0.21	$110,\!111,\!116,\!125$	0
4	NI	А	207	1/1	0.87	0.09	78, 78, 78, 78	0
4	NI	А	206	1/1	0.96	0.07	92,92,92,92	1

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## 6.5 Other polymers (i)

There are no such residues in this entry.

