



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 23, 2024 – 06:11 PM EDT

PDB ID : 5CBL
Title : Crystal structure of the C-terminal domain of human galectin-4 with lactose
Authors : Rustiguel, J.K.; Nonato, M.C.
Deposited on : 2015-07-01
Resolution : 1.78 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 ⓘ 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 ⓘ](#)) 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 : 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

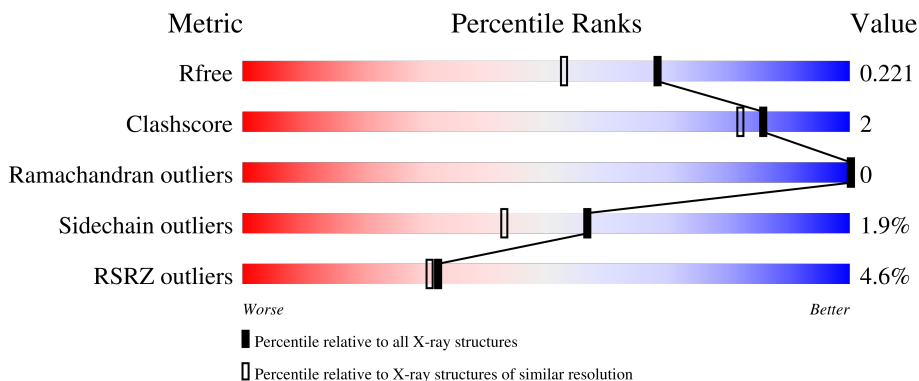
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.78 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.



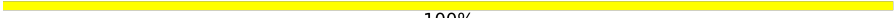
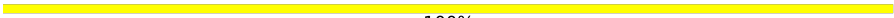

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	9185 (1.80-1.76)
Clashscore	141614	10184 (1.80-1.76)
Ramachandran outliers	138981	10051 (1.80-1.76)
Sidechain outliers	138945	10050 (1.80-1.76)
RSRZ outliers	127900	9032 (1.80-1.76)

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 $\leq 5\%$. 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	148	 5% 79% 9% 12%
1	B	148	 3% 91% 6%
1	C	148	 6% 84% 7% 8%
1	D	148	 3% 87% 5% 7%
2	E	2	 100%

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

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 8667 atoms, of which 4104 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-4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	130	1965	646	962	177	178	2	0	1	0
1	B	139	2124	692	1049	189	191	3	0	2	0
1	C	136	1993	660	970	173	188	2	0	2	0
1	D	137	2068	679	1016	180	191	2	0	2	0

There are 12 discrepancies between the modelled and reference sequences:

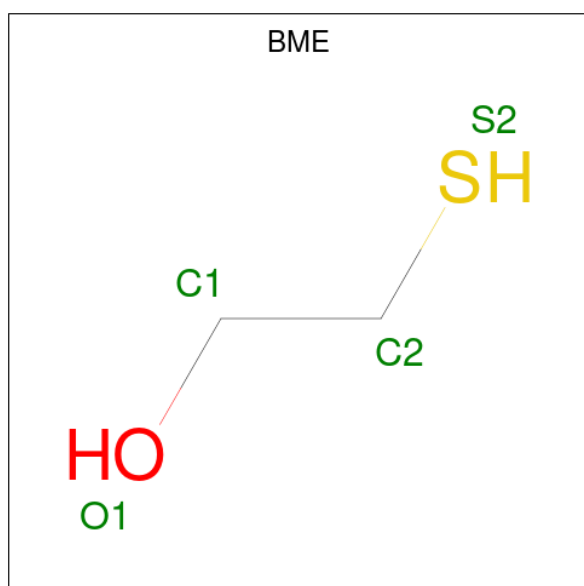
Chain	Residue	Modelled	Actual	Comment	Reference
A	176	SER	-	expression tag	UNP P56470
A	177	GLU	-	expression tag	UNP P56470
A	178	PHE	-	expression tag	UNP P56470
B	176	SER	-	expression tag	UNP P56470
B	177	GLU	-	expression tag	UNP P56470
B	178	PHE	-	expression tag	UNP P56470
C	176	SER	-	expression tag	UNP P56470
C	177	GLU	-	expression tag	UNP P56470
C	178	PHE	-	expression tag	UNP P56470
D	176	SER	-	expression tag	UNP P56470
D	177	GLU	-	expression tag	UNP P56470
D	178	PHE	-	expression tag	UNP P56470

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



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	E	2	Total	C	H	O	0	0	0
			44	12	21	11			
2	F	2	Total	C	H	O	0	0	0
			44	12	21	11			
2	G	2	Total	C	H	O	0	0	0
			44	12	21	11			
2	H	2	Total	C	H	O	0	0	0
			45	12	22	11			

- Molecule 3 is BETA-MERCAPTOETHANOL (three-letter code: BME) (formula: C₂H₆OS).



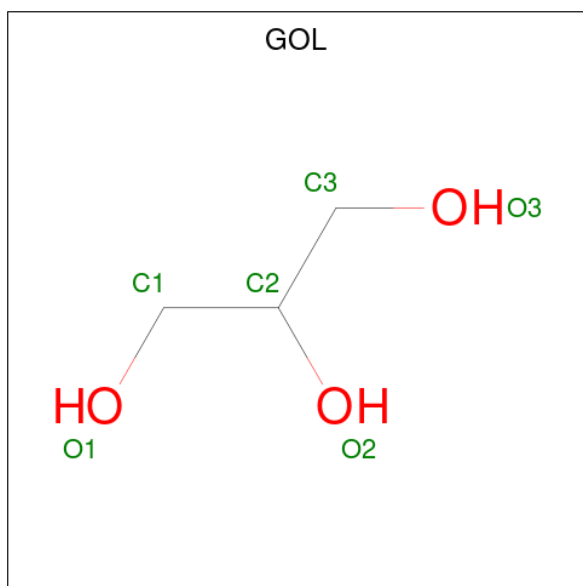
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	B	1	Total	C	H	O	S	0	0
			10	2	6	1	1		

- Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



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

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total	C	H	O	0	0
			14	3	8	3		
5	C	1	Total	C	H	O	0	0
			14	3	8	3		

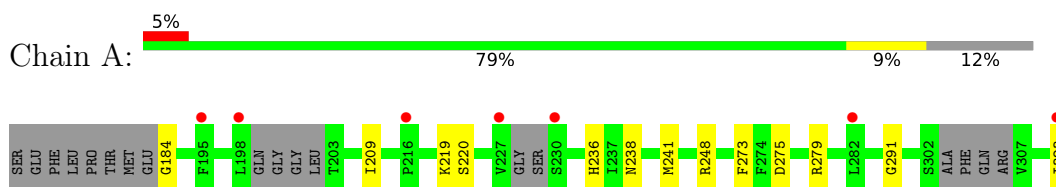
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	67	Total O 67 67	0	0
6	B	75	Total O 75 75	0	0
6	C	78	Total O 78 78	0	0
6	D	77	Total O 77 77	0	0

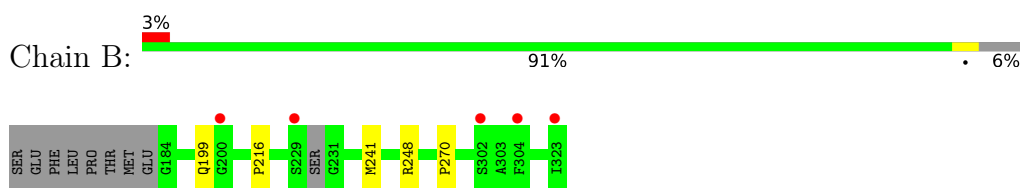
3 Residue-property plots [i](#)

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.

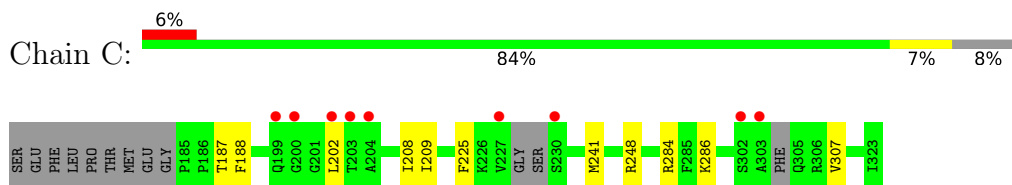
- Molecule 1: Galectin-4



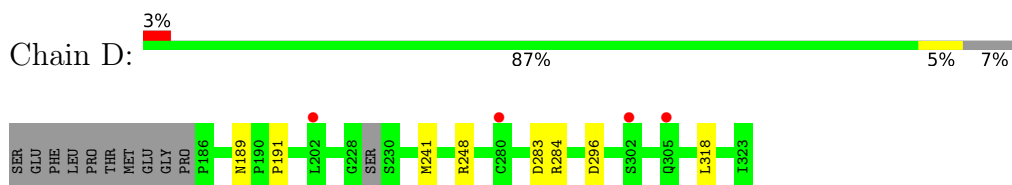
- Molecule 1: Galectin-4



- Molecule 1: Galectin-4




- Molecule 1: Galectin-4



- Molecule 2: beta-D-galactopyranose-(1-4)-beta-D-glucofuranose



- Molecule 2: beta-D-galactopyranose-(1-4)-beta-D-glucofuranose

Chain F:  100%

BGC1
GAL2

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

Chain G:  100%

BGC1
GAL2

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

Chain H:  100%

BGC1
GAL2

4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	45.51Å 126.74Å 45.53Å 90.00° 99.65° 90.00°	Depositor
Resolution (Å)	63.37 – 1.78 63.37 – 1.78	Depositor EDS
% Data completeness (in resolution range)	95.3 (63.37-1.78) 94.5 (63.37-1.78)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.94 (at 1.78Å)	Xtrriage
Refinement program	PHENIX 1.9-1692	Depositor
R, R_{free}	0.182 , 0.224 0.186 , 0.221	Depositor DCC
R_{free} test set	2005 reflections (4.34%)	wwPDB-VP
Wilson B-factor (Å ²)	22.2	Xtrriage
Anisotropy	0.213	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 45.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	0.287 for l,-k,h	Xtrriage
Reported twinning fraction	0.270 for l,-k,h	Depositor
Outliers	0 of 46209 reflections	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8667	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.47% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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: SO4, BGC, GAL, BME, GOL

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	0.24	0/1032	0.46	0/1396
1	B	0.25	0/1110	0.48	0/1505
1	C	0.26	0/1055	0.49	0/1434
1	D	0.25	0/1086	0.49	0/1473
All	All	0.25	0/4283	0.48	0/5808

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	1003	962	961	9	0
1	B	1075	1049	1046	2	0
1	C	1023	970	967	8	0
1	D	1052	1016	1013	4	0
2	E	23	21	21	0	0
2	F	23	21	21	0	0
2	G	23	21	21	0	0
2	H	23	22	21	0	0
3	B	4	6	3	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	5	0	0	0	0
5	B	6	8	8	0	0
5	C	6	8	8	0	0
6	A	67	0	0	2	0
6	B	75	0	0	1	0
6	C	78	0	0	1	0
6	D	77	0	0	0	0
All	All	4563	4104	4090	18	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.

The worst 5 of 18 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:D:283:ASP:OD2	1:D:284:ARG:NH1	2.25	0.70
1:A:184:GLY:N	6:A:502:HOH:O	2.27	0.68
1:B:199:GLN:NE2	6:B:503:HOH:O	2.30	0.64
1:A:291:GLY:HA3	1:C:187:THR:HG21	1.88	0.56
1:A:323:ILE:O	6:A:501:HOH:O	2.19	0.52

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	123/148 (83%)	121 (98%)	2 (2%)	0	100	100
1	B	137/148 (93%)	135 (98%)	2 (2%)	0	100	100
1	C	132/148 (89%)	128 (97%)	4 (3%)	0	100	100
1	D	135/148 (91%)	133 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	527/592 (89%)	517 (98%)	10 (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	Percentiles	
1	A	104/125 (83%)	102 (98%)	2 (2%)	57	43
1	B	113/125 (90%)	111 (98%)	2 (2%)	59	45
1	C	105/125 (84%)	103 (98%)	2 (2%)	57	43
1	D	110/125 (88%)	108 (98%)	2 (2%)	59	45
All	All	432/500 (86%)	424 (98%)	8 (2%)	57	43

5 of 8 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	248	ARG
1	D	241	MET
1	C	241	MET
1	B	248	ARG
1	C	248	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

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	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	BGC	E	1	2	12,12,12	1.30	2 (16%)	17,17,17	0.74	0
2	GAL	E	2	2	11,11,12	1.64	4 (36%)	15,15,17	1.12	2 (13%)
2	BGC	F	1	2	12,12,12	1.36	3 (25%)	17,17,17	1.13	2 (11%)
2	GAL	F	2	2	11,11,12	1.66	4 (36%)	15,15,17	0.96	1 (6%)
2	BGC	G	1	2	12,12,12	1.37	3 (25%)	17,17,17	0.83	0
2	GAL	G	2	2	11,11,12	1.67	4 (36%)	15,15,17	1.12	1 (6%)
2	BGC	H	1	2	12,12,12	1.33	3 (25%)	17,17,17	0.60	0
2	GAL	H	2	2	11,11,12	1.70	4 (36%)	15,15,17	1.13	1 (6%)

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	E	1	2	-	2/2/22/22	0/1/1/1
2	GAL	E	2	2	-	0/2/19/22	0/1/1/1
2	BGC	F	1	2	-	2/2/22/22	0/1/1/1
2	GAL	F	2	2	-	0/2/19/22	0/1/1/1
2	BGC	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	BGC	H	1	2	-	0/2/22/22	0/1/1/1
2	GAL	H	2	2	-	0/2/19/22	0/1/1/1

The worst 5 of 27 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	2	GAL	O5-C1	2.99	1.48	1.43
2	G	2	GAL	O5-C1	2.89	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	2	GAL	O5-C1	2.81	1.48	1.43
2	E	2	GAL	O5-C1	2.72	1.48	1.43
2	E	2	GAL	O3-C3	2.68	1.49	1.43

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	2	GAL	C1-C2-C3	2.98	113.33	109.67
2	F	1	BGC	O5-C5-C4	2.90	114.97	109.69
2	H	2	GAL	C1-C2-C3	2.78	113.09	109.67
2	E	2	GAL	C1-C2-C3	2.75	113.05	109.67
2	F	1	BGC	C3-C4-C5	2.39	114.50	110.24

There are no chirality outliers.

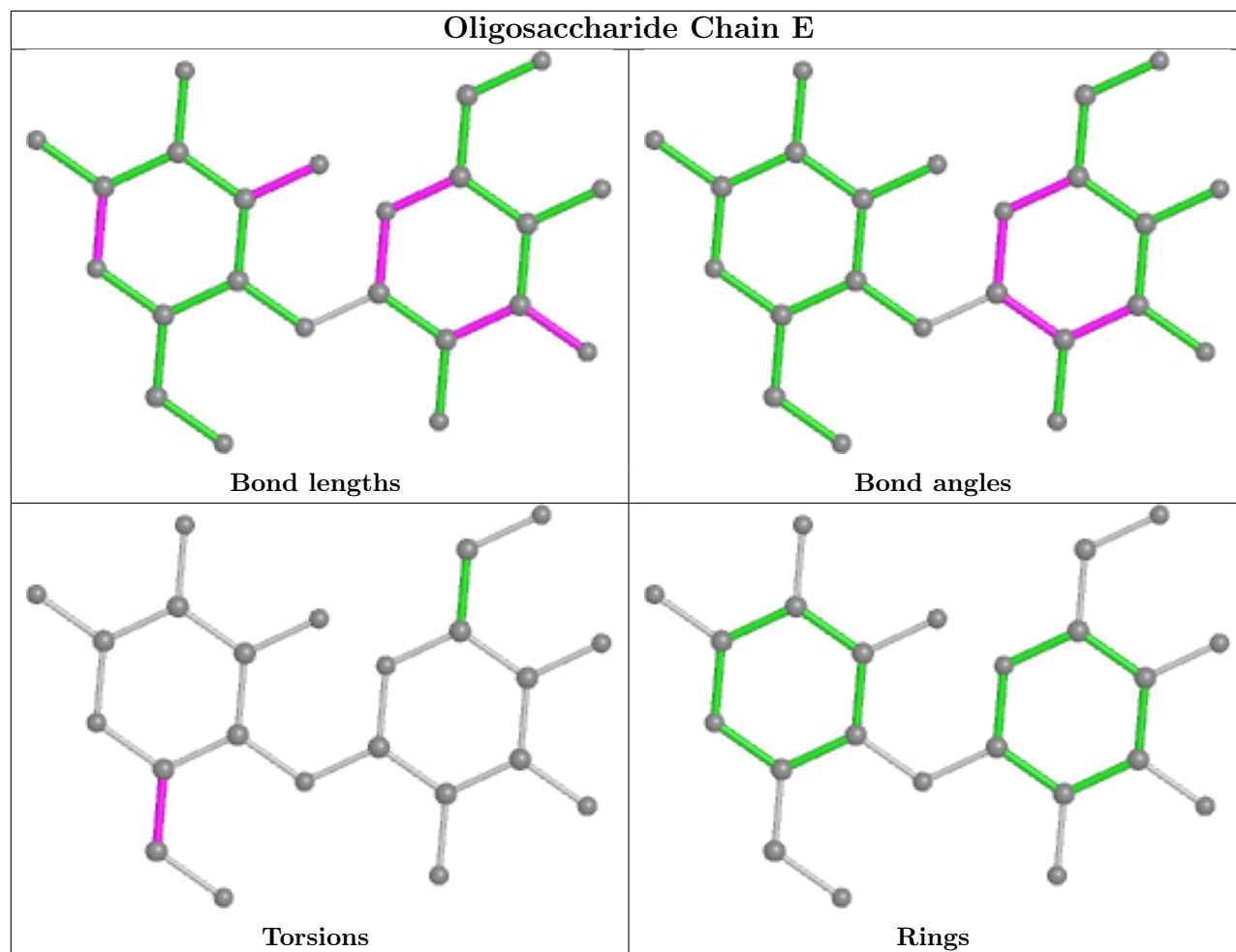
5 of 6 torsion outliers are listed below:

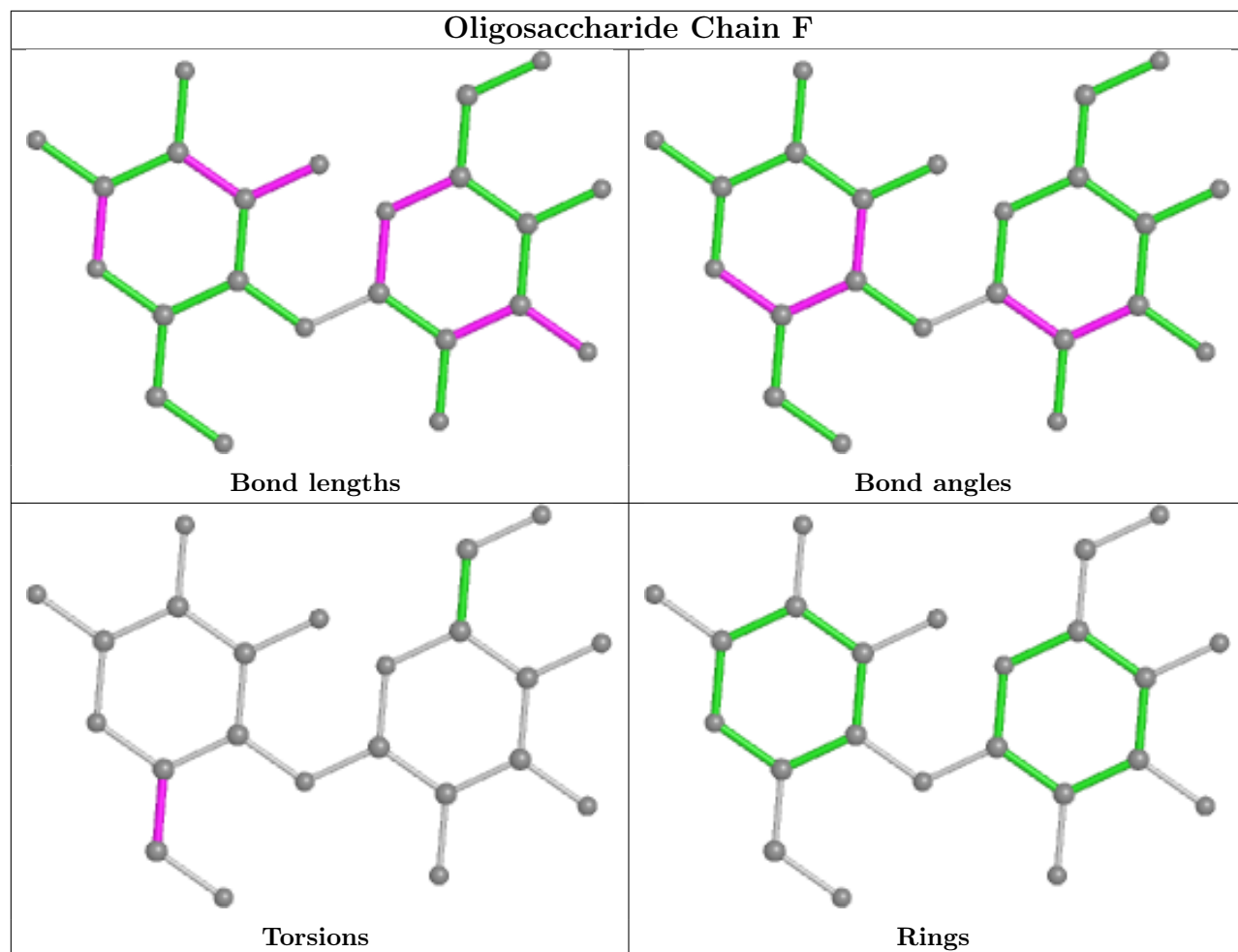
Mol	Chain	Res	Type	Atoms
2	F	1	BGC	O5-C5-C6-O6
2	G	1	BGC	O5-C5-C6-O6
2	E	1	BGC	C4-C5-C6-O6
2	G	1	BGC	C4-C5-C6-O6
2	F	1	BGC	C4-C5-C6-O6

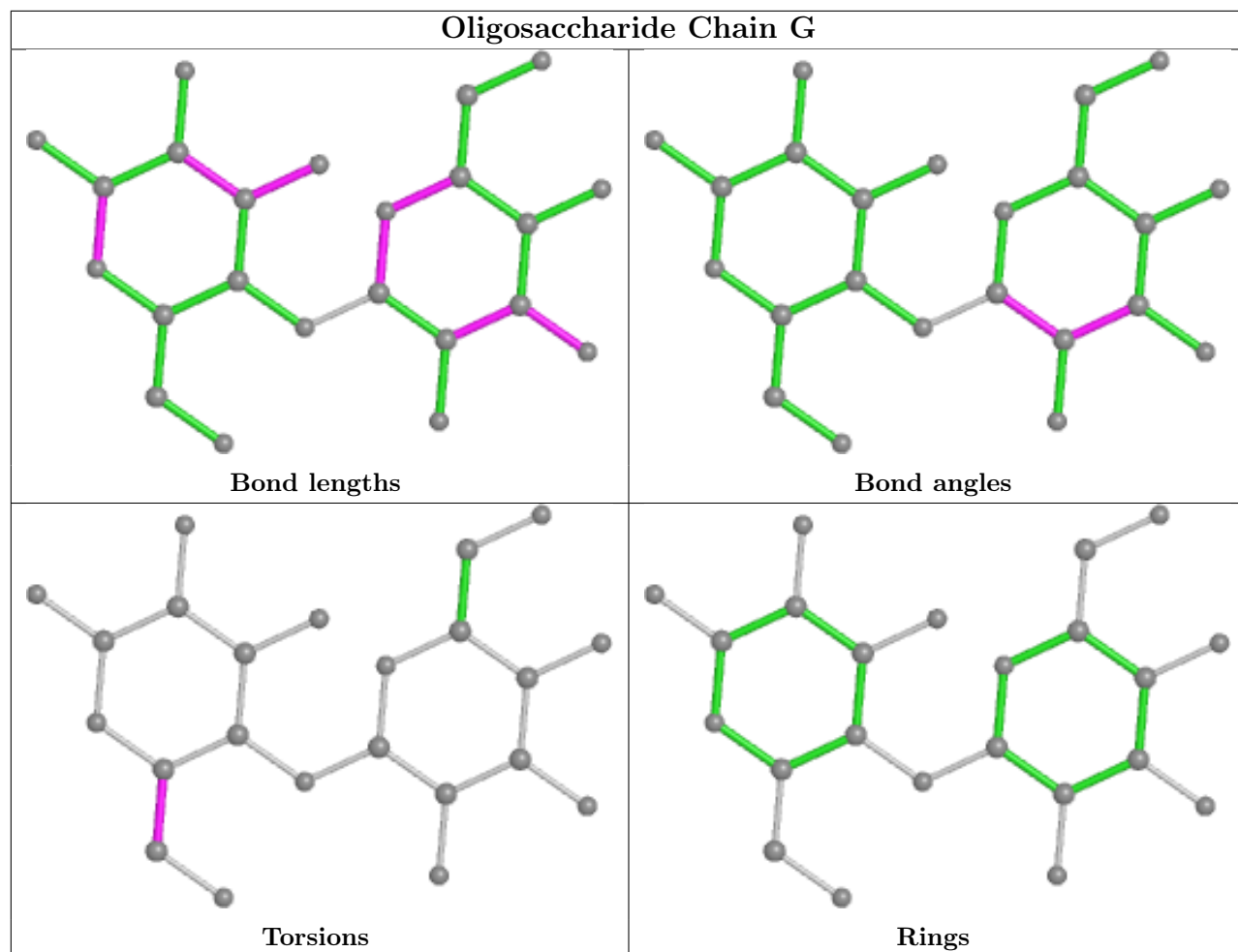
There are no ring outliers.

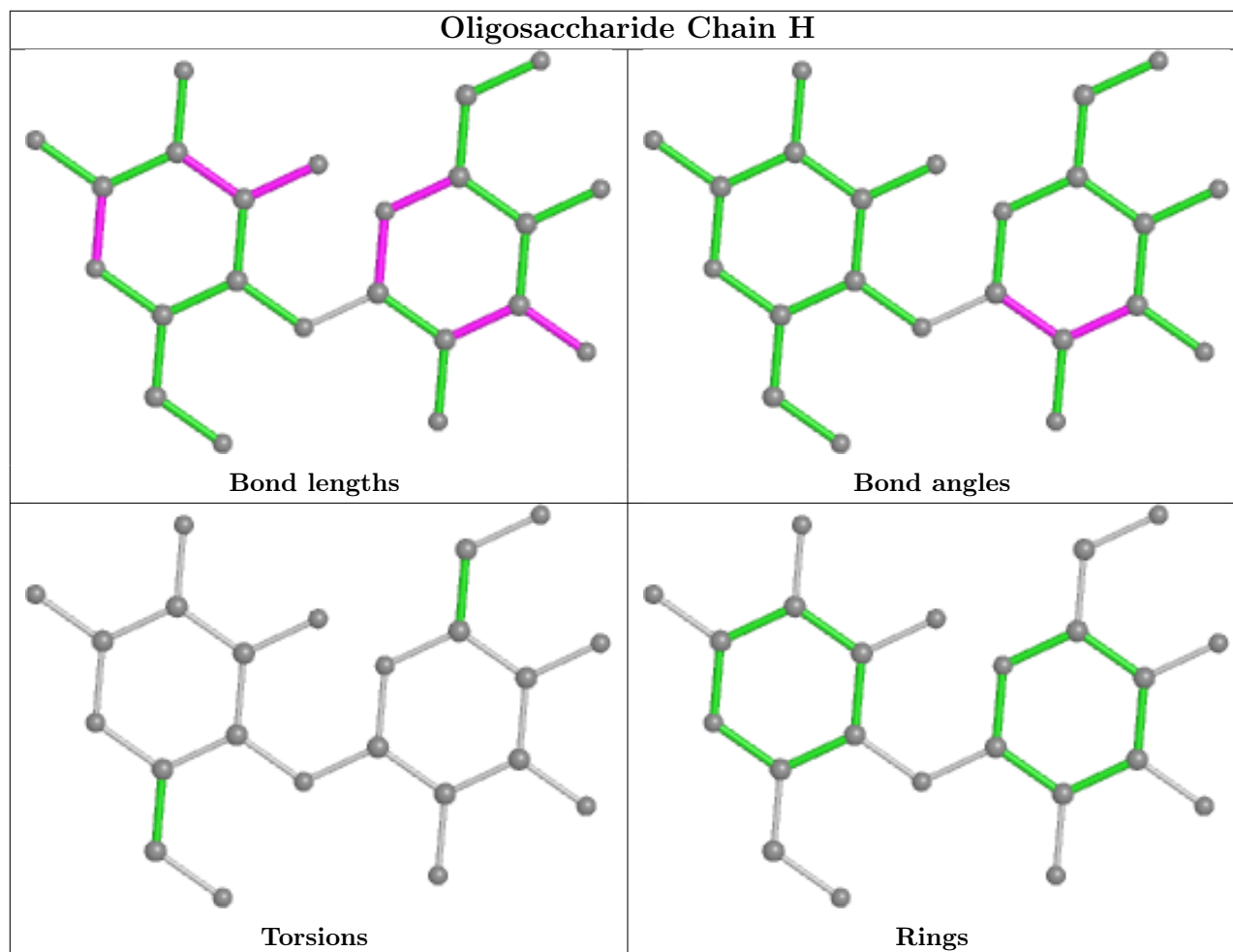
No monomer is involved in short contacts.

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](#)

4 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
5	GOL	B	404	-	5,5,5	0.38	0	5,5,5	0.22	0
4	SO4	B	403	-	4,4,4	0.14	0	6,6,6	0.10	0
5	GOL	C	402	-	5,5,5	0.37	0	5,5,5	0.25	0
3	BME	B	402	1	3,3,3	0.60	0	1,2,2	0.04	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
5	GOL	B	404	-	-	0/4/4/4	-
5	GOL	C	402	-	-	0/4/4/4	-
3	BME	B	402	1	-	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, 95th 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 ²)	Q<0.9
1	A	130/148 (87%)	0.34	7 (5%) 25 24	17, 25, 47, 56	0
1	B	139/148 (93%)	0.22	5 (3%) 42 41	16, 24, 47, 70	1 (0%)
1	C	136/148 (91%)	0.29	9 (6%) 18 17	15, 23, 62, 73	0
1	D	137/148 (92%)	0.27	4 (2%) 51 50	16, 24, 54, 61	0
All	All	542/592 (91%)	0.28	25 (4%) 32 31	15, 24, 50, 73	1 (0%)

The worst 5 of 25 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	204	ALA	5.9
1	A	230	SER	5.0
1	C	303	ALA	4.8
1	B	200	GLY	4.6
1	B	304	PHE	4.2

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, 95th 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.

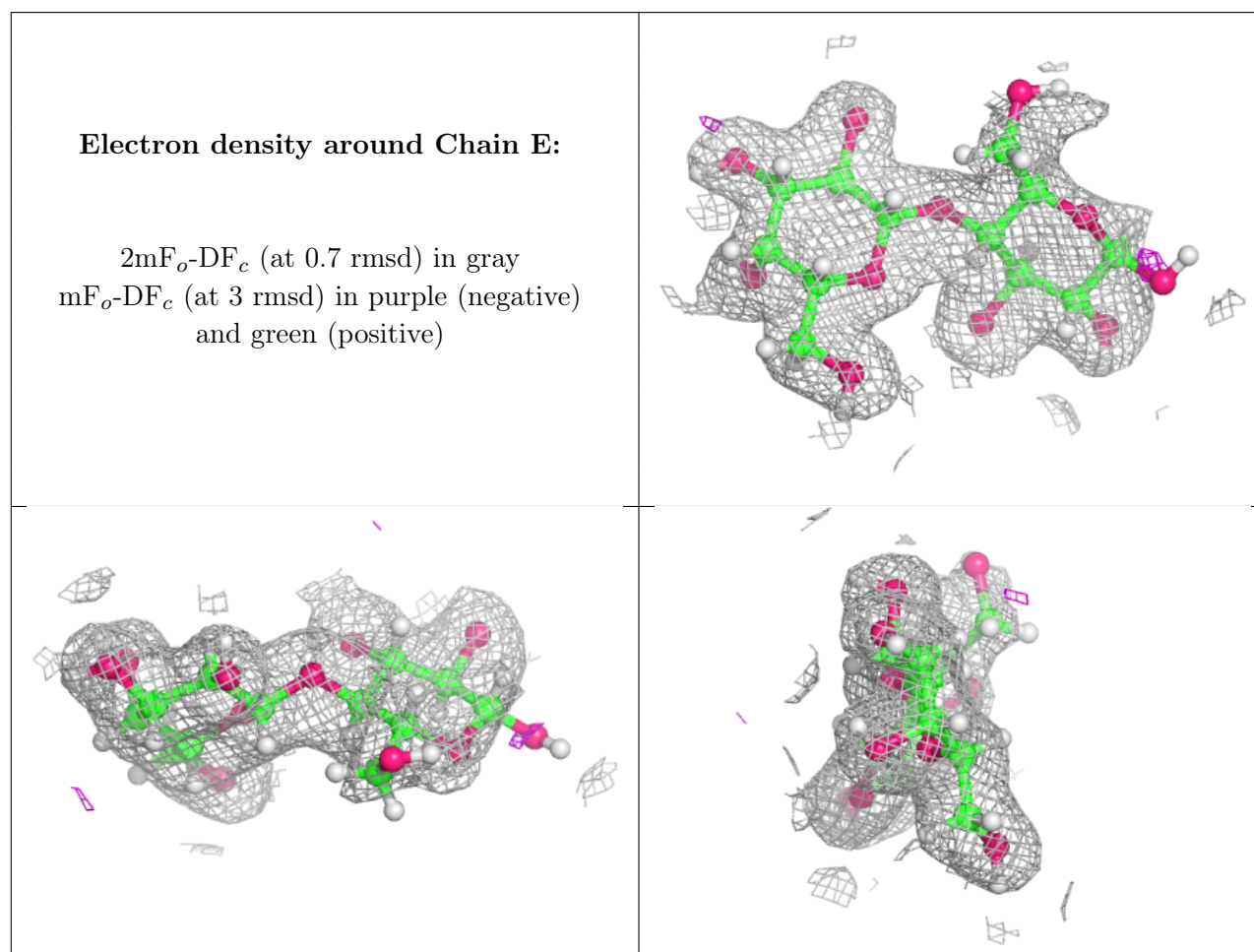
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	BGC	F	1	12/12	0.85	0.10	26,40,49,59	0
2	BGC	E	1	12/12	0.89	0.17	27,42,66,88	0

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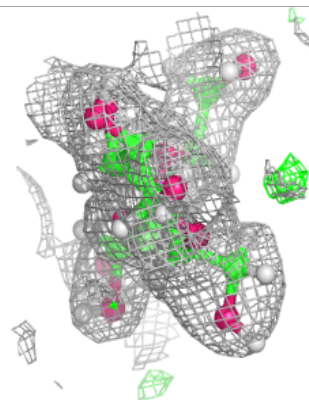
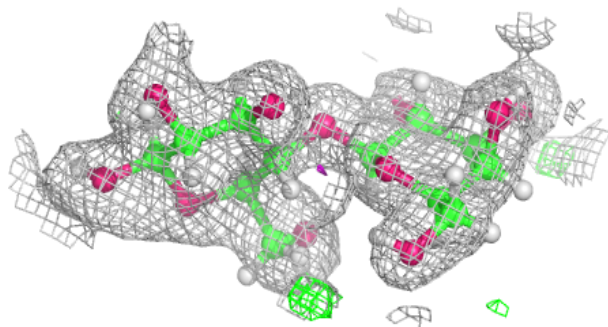
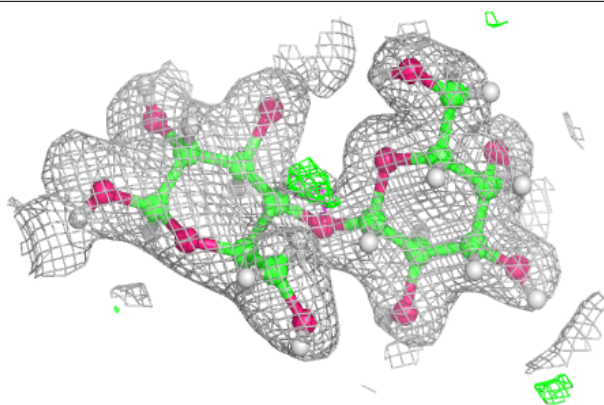
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	BGC	G	1	12/12	0.91	0.11	23,37,51,64	0
2	BGC	H	1	12/12	0.91	0.10	25,34,42,63	0
2	GAL	H	2	11/12	0.92	0.13	20,32,39,44	0
2	GAL	E	2	11/12	0.93	0.09	17,28,36,39	0
2	GAL	G	2	11/12	0.94	0.09	18,24,29,30	0
2	GAL	F	2	11/12	0.95	0.09	18,27,34,41	0

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.

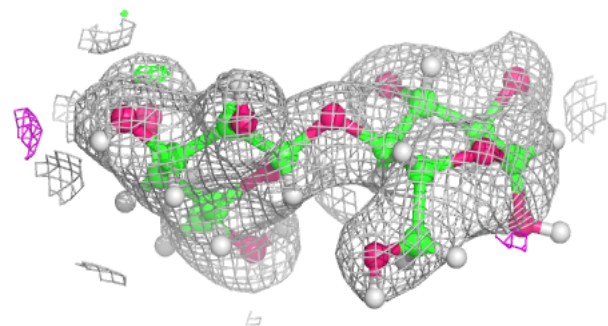
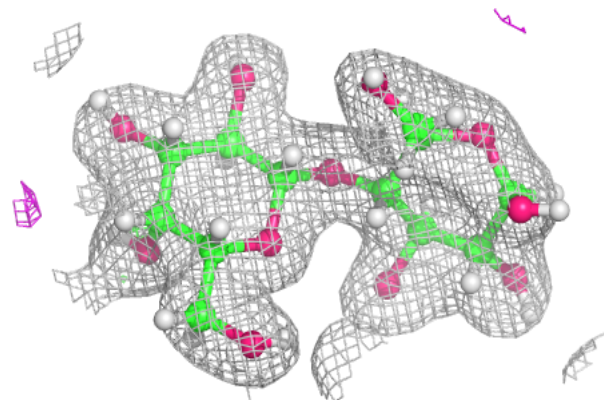


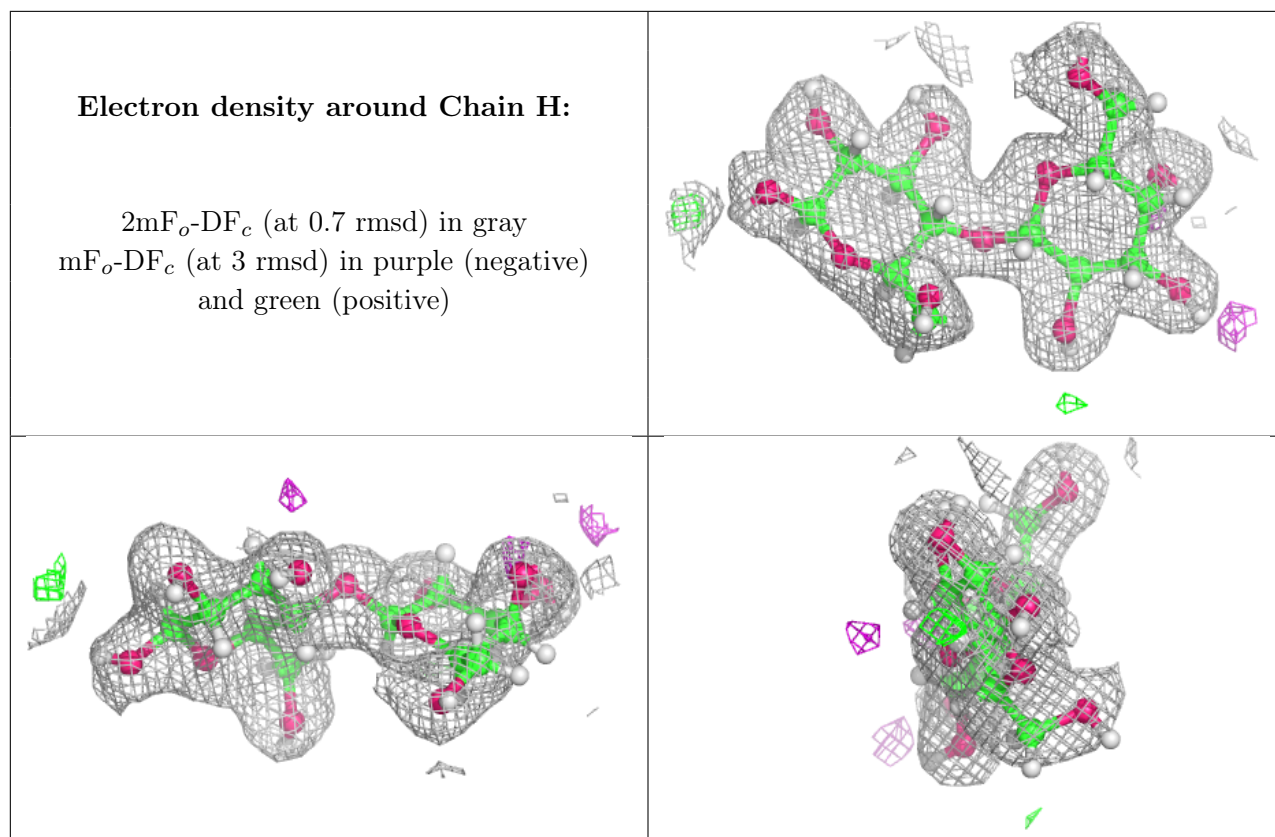
Electron density around Chain F:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around Chain G:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-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, 95th 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 ²)	Q<0.9
5	GOL	C	402	6/6	0.78	0.15	23,30,34,41	0
5	GOL	B	404	6/6	0.85	0.12	34,42,54,65	0
3	BME	B	402	4/4	0.86	0.17	31,38,44,46	0
4	SO4	B	403	5/5	0.96	0.10	36,37,42,54	0

6.5 Other polymers [i](#)

There are no such residues in this entry.