



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 09:21 PM UTC

PDB ID : 8WSP / pdb_00008wsp
Title : Crystal structure of SFTSV Gn and antibody SF5
Authors : Chang, Z.; Gao, F.; Wu, Y.
Deposited on : 2023-10-17
Resolution : 2.51 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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

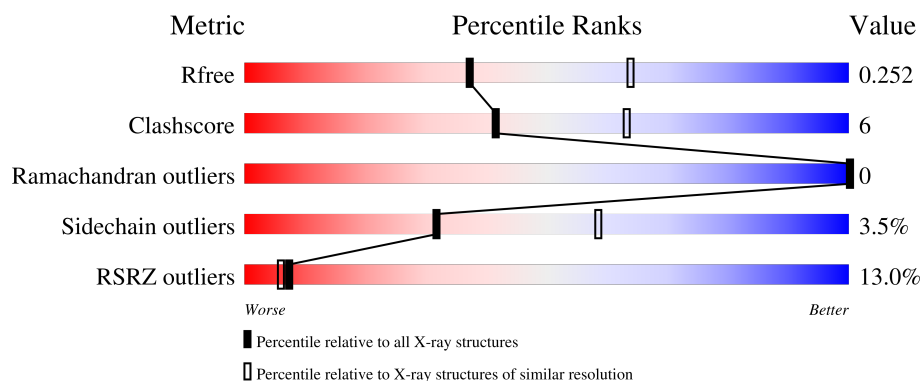
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.51 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.



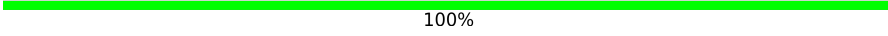
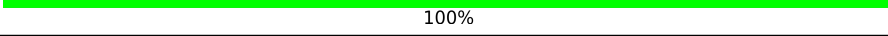
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	331	3% 86% 10% .
1	D	331	2% 81% 14% 5%
2	B	228	17% 78% 16% . 5%
2	E	228	19% 77% 15% . 7%
3	C	214	19% 83% 13% ...

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Mol	Chain	Length	Quality of chain
3	F	214	 25% 81% 15% ..
4	G	3	 67% 33%
4	I	3	 33% 67%
5	H	2	 100%
5	J	2	 100%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 11994 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 Gn.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	318	Total	C	N	O	S	0	0	0
			2445	1530	421	468	26			
1	D	316	Total	C	N	O	S	0	0	0
			2432	1523	418	465	26			

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	16	ASP	-	expression tag	UNP F1BDJ0
A	17	GLY	-	expression tag	UNP F1BDJ0
A	18	ILE	-	expression tag	UNP F1BDJ0
A	19	GLN	-	expression tag	UNP F1BDJ0
A	341	HIS	-	expression tag	UNP F1BDJ0
A	342	HIS	-	expression tag	UNP F1BDJ0
A	343	HIS	-	expression tag	UNP F1BDJ0
A	344	HIS	-	expression tag	UNP F1BDJ0
A	345	HIS	-	expression tag	UNP F1BDJ0
A	346	HIS	-	expression tag	UNP F1BDJ0
D	16	ASP	-	expression tag	UNP F1BDJ0
D	17	GLY	-	expression tag	UNP F1BDJ0
D	18	ILE	-	expression tag	UNP F1BDJ0
D	19	GLN	-	expression tag	UNP F1BDJ0
D	341	HIS	-	expression tag	UNP F1BDJ0
D	342	HIS	-	expression tag	UNP F1BDJ0
D	343	HIS	-	expression tag	UNP F1BDJ0
D	344	HIS	-	expression tag	UNP F1BDJ0
D	345	HIS	-	expression tag	UNP F1BDJ0
D	346	HIS	-	expression tag	UNP F1BDJ0

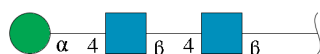
- Molecule 2 is a protein called Ab5-H.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	217	Total	C	N	O	S	0	0	0
			1630	1036	273	315	6			
2	E	212	Total	C	N	O	S	0	0	0
			1599	1015	268	310	6			

- Molecule 3 is a protein called Ab5-L.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	210	Total	C	N	O	S	0	0	0
			1569	975	268	322	4			
3	F	209	Total	C	N	O	S	0	0	0
			1563	972	267	320	4			

- Molecule 4 is an oligosaccharide called alpha-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	G	3	Total	C	N	O	0	0	0
			39	22	2	15			
4	I	3	Total	C	N	O	0	0	0
			39	22	2	15			

- Molecule 5 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	H	2	Total	C	N	O	0	0	0
			28	16	2	10			
5	J	2	Total	C	N	O	0	0	0
			28	16	2	10			

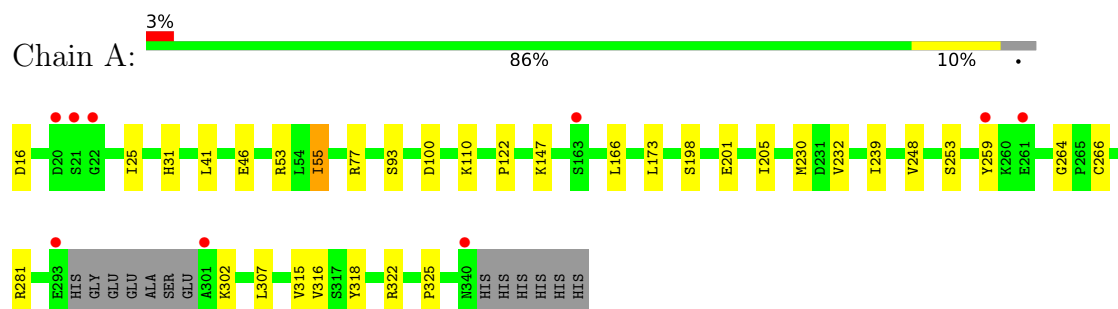
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	154	Total 154	O 154	0	0
6	B	58	Total 58	O 58	0	0
6	C	62	Total 62	O 62	0	0
6	D	204	Total 204	O 204	0	0
6	E	70	Total 70	O 70	0	0
6	F	74	Total 74	O 74	0	0

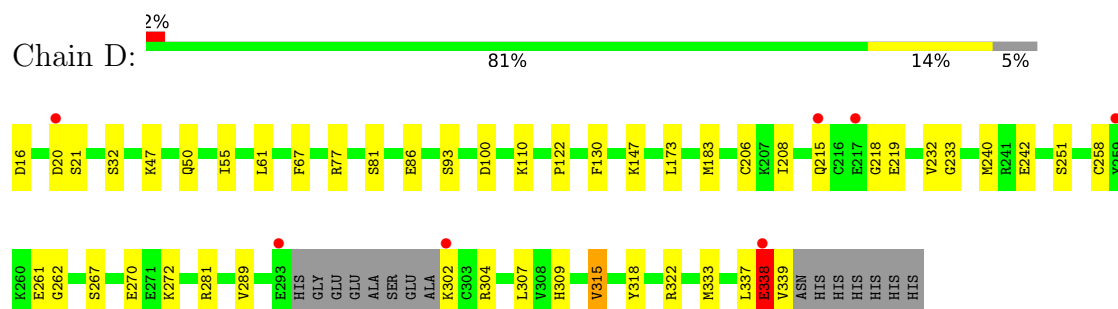
3 Residue-property plots [i](#)

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.

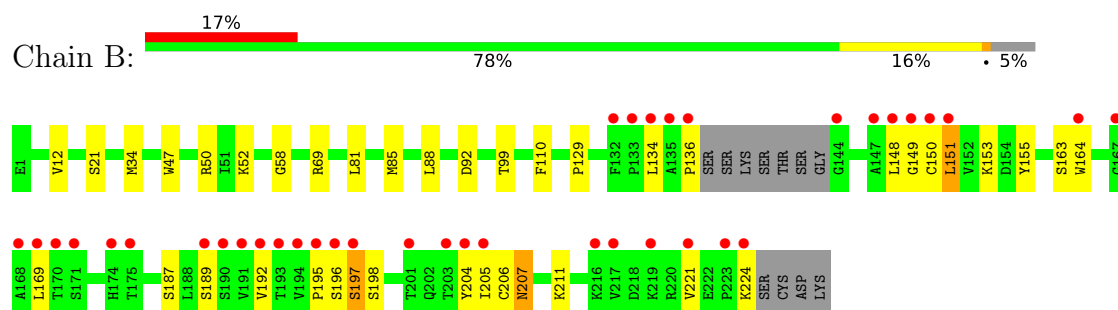
• Molecule 1: Gn



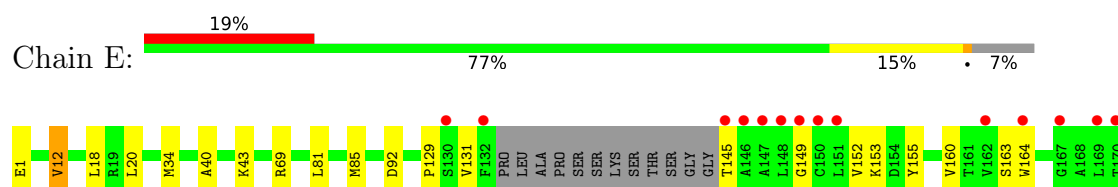
• Molecule 1: Gn

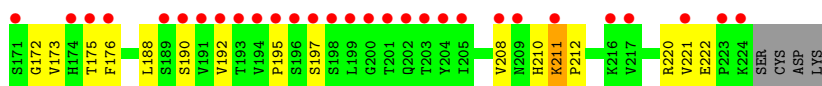


• Molecule 2: Ab5-H

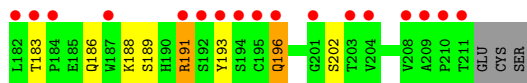
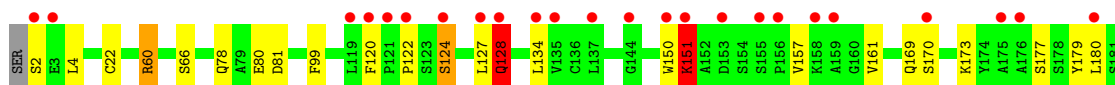
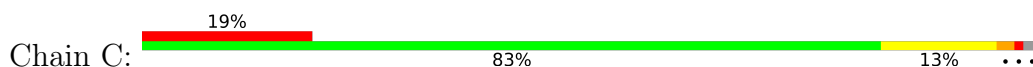


• Molecule 2: Ab5-H

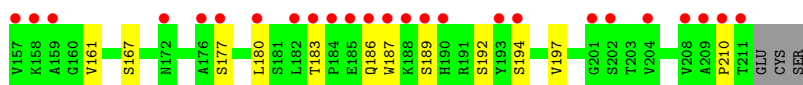
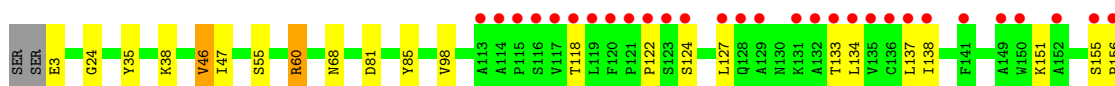
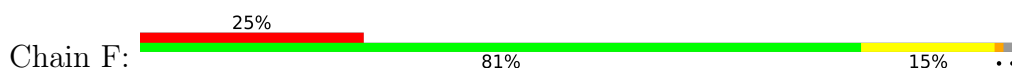




• Molecule 3: Ab5-L



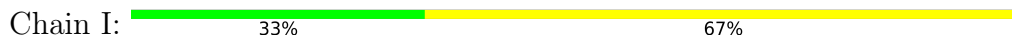
• Molecule 3: Ab5-L



• Molecule 4: alpha-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



• Molecule 4: alpha-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain J:  100%

3M61
3M62

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	94.88Å 111.33Å 191.93Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.01 – 2.51 48.01 – 2.51	Depositor EDS
% Data completeness (in resolution range)	98.5 (48.01-2.51) 98.4 (48.01-2.51)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.60 (at 2.51Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487, PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.195 , 0.243 (Not available) , 0.252	Depositor DCC
R_{free} test set	3472 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	36.1	Xtriage
Anisotropy	0.167	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 32.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	11994	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 22.61 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 5.5034e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, MAN

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	0.41	0/2505	0.61	0/3377
1	D	0.45	0/2492	0.67	3/3359 (0.1%)
2	B	0.35	0/1671	0.62	3/2277 (0.1%)
2	E	0.37	0/1638	0.59	1/2230 (0.0%)
3	C	0.48	1/1605 (0.1%)	0.74	5/2191 (0.2%)
3	F	0.34	0/1599	0.56	0/2183
All	All	0.41	1/11510 (0.0%)	0.64	12/15617 (0.1%)

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
2	B	0	2
3	C	0	1
All	All	0	3

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	128	GLN	CD-OE1	5.22	1.33	1.23

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	196	GLN	CA-CB-CG	10.14	134.38	114.10
1	D	337	LEU	CA-C-N	-9.22	106.21	123.27
1	D	337	LEU	C-N-CA	-9.22	106.21	123.27
3	C	128	GLN	CB-CA-C	-7.08	96.32	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	151	LYS	CG-CD-CE	-7.05	95.08	111.30

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	196	SER	Peptide
2	B	197	SER	Peptide
3	C	128	GLN	Sidechain

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	2445	0	2343	18	0
1	D	2432	0	2332	30	0
2	B	1630	0	1607	24	0
2	E	1599	0	1574	23	0
3	C	1569	0	1513	28	0
3	F	1563	0	1508	22	0
4	G	39	0	34	0	0
4	I	39	0	34	0	0
5	H	28	0	25	0	0
5	J	28	0	25	0	0
6	A	154	0	0	1	0
6	B	58	0	0	0	0
6	C	62	0	0	1	0
6	D	204	0	0	4	0
6	E	70	0	0	0	0
6	F	74	0	0	3	0
All	All	11994	0	10995	142	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 6.

The worst 5 of 142 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)
3:C:128:GLN:HE21	3:C:128:GLN:HA	1.38	0.88
3:C:151:LYS:HG3	3:C:196:GLN:NE2	1.91	0.85
3:C:99:PHE:O	6:C:301:HOH:O	1.98	0.82
2:B:195:PRO:HB2	2:B:197:SER:HB3	1.63	0.81
2:B:151:LEU:C	2:B:151:LEU:HD12	2.07	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	Percentiles	
1	A	314/331 (95%)	302 (96%)	12 (4%)	0	100	100
1	D	312/331 (94%)	301 (96%)	11 (4%)	0	100	100
2	B	213/228 (93%)	206 (97%)	7 (3%)	0	100	100
2	E	208/228 (91%)	200 (96%)	8 (4%)	0	100	100
3	C	208/214 (97%)	203 (98%)	5 (2%)	0	100	100
3	F	207/214 (97%)	203 (98%)	4 (2%)	0	100	100
All	All	1462/1546 (95%)	1415 (97%)	47 (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	274/285 (96%)	269 (98%)	5 (2%)	51	77
1	D	273/285 (96%)	264 (97%)	9 (3%)	33	61
2	B	181/191 (95%)	174 (96%)	7 (4%)	28	55
2	E	178/191 (93%)	172 (97%)	6 (3%)	32	60
3	C	175/179 (98%)	164 (94%)	11 (6%)	16	34
3	F	174/179 (97%)	168 (97%)	6 (3%)	32	60
All	All	1255/1310 (96%)	1211 (96%)	44 (4%)	32	58

5 of 44 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	272	LYS
2	E	163	SER
1	D	289	VAL
2	E	1	GLU
2	E	221	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 15 such sidechains are listed below:

Mol	Chain	Res	Type
3	C	199	HIS
3	F	190	HIS
1	D	50	GLN
3	F	199	HIS
3	F	37	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

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	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	NAG	G	1	4,1	14,14,15	0.47	0	17,19,21	0.69	0
4	NAG	G	2	4	14,14,15	0.50	0	17,19,21	0.64	0
4	MAN	G	3	4	11,11,12	1.47	2 (18%)	15,15,17	1.10	1 (6%)
5	NAG	H	1	5,1	14,14,15	0.30	0	17,19,21	0.59	0
5	NAG	H	2	5	14,14,15	0.26	0	17,19,21	0.48	0
4	NAG	I	1	4,1	14,14,15	0.26	0	17,19,21	0.73	0
4	NAG	I	2	4	14,14,15	0.92	1 (7%)	17,19,21	0.76	1 (5%)
4	MAN	I	3	4	11,11,12	1.87	4 (36%)	15,15,17	1.67	3 (20%)
5	NAG	J	1	5,1	14,14,15	0.32	0	17,19,21	0.74	0
5	NAG	J	2	5	14,14,15	0.40	0	17,19,21	0.45	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
4	NAG	G	1	4,1	-	0/6/23/26	0/1/1/1
4	NAG	G	2	4	-	0/6/23/26	0/1/1/1
4	MAN	G	3	4	-	1/2/19/22	0/1/1/1
5	NAG	H	1	5,1	-	4/6/23/26	0/1/1/1
5	NAG	H	2	5	-	3/6/23/26	0/1/1/1
4	NAG	I	1	4,1	-	2/6/23/26	0/1/1/1
4	NAG	I	2	4	-	0/6/23/26	0/1/1/1
4	MAN	I	3	4	-	1/2/19/22	0/1/1/1
5	NAG	J	1	5,1	-	2/6/23/26	0/1/1/1
5	NAG	J	2	5	-	1/6/23/26	0/1/1/1

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	I	3	MAN	O5-C5	3.90	1.51	1.43
4	I	2	NAG	O5-C1	-3.19	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	G	3	MAN	O5-C5	3.08	1.49	1.43
4	I	3	MAN	C6-C5	2.45	1.60	1.51
4	G	3	MAN	C4-C5	2.45	1.58	1.53

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	I	3	MAN	C1-O5-C5	4.54	118.27	112.19
4	G	3	MAN	O2-C2-C3	-2.84	104.28	110.15
4	I	3	MAN	O2-C2-C3	-2.45	105.07	110.15
4	I	2	NAG	C1-O5-C5	2.07	114.96	112.19
4	I	3	MAN	O5-C5-C6	2.02	111.59	107.66

There are no chirality outliers.

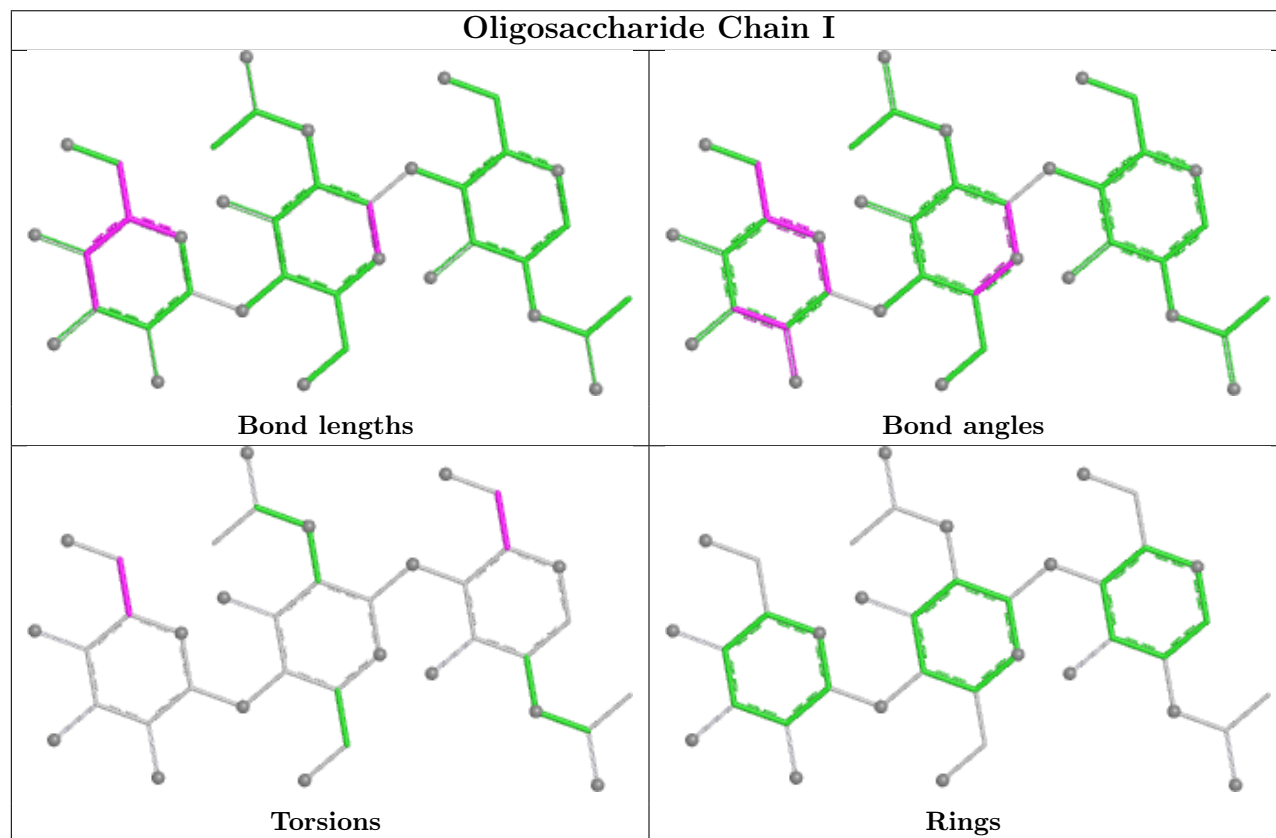
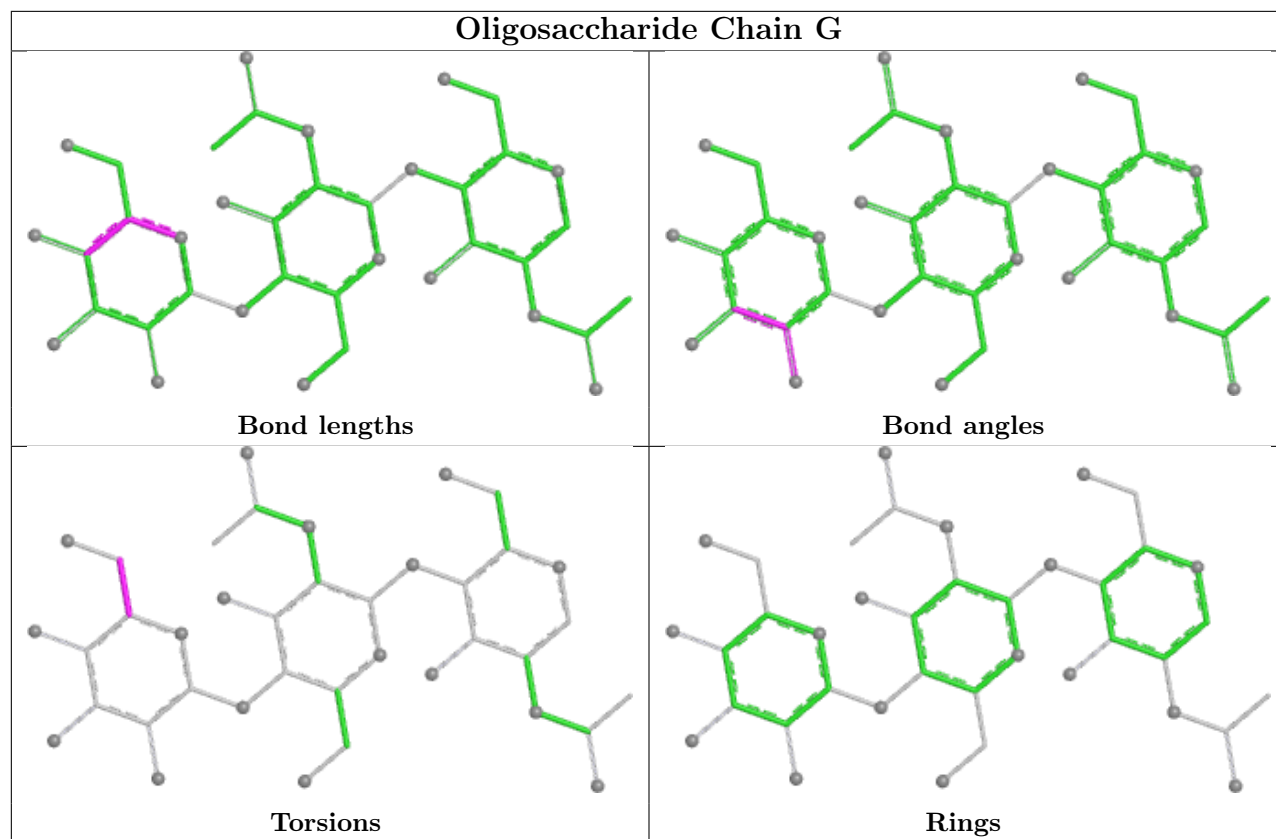
5 of 14 torsion outliers are listed below:

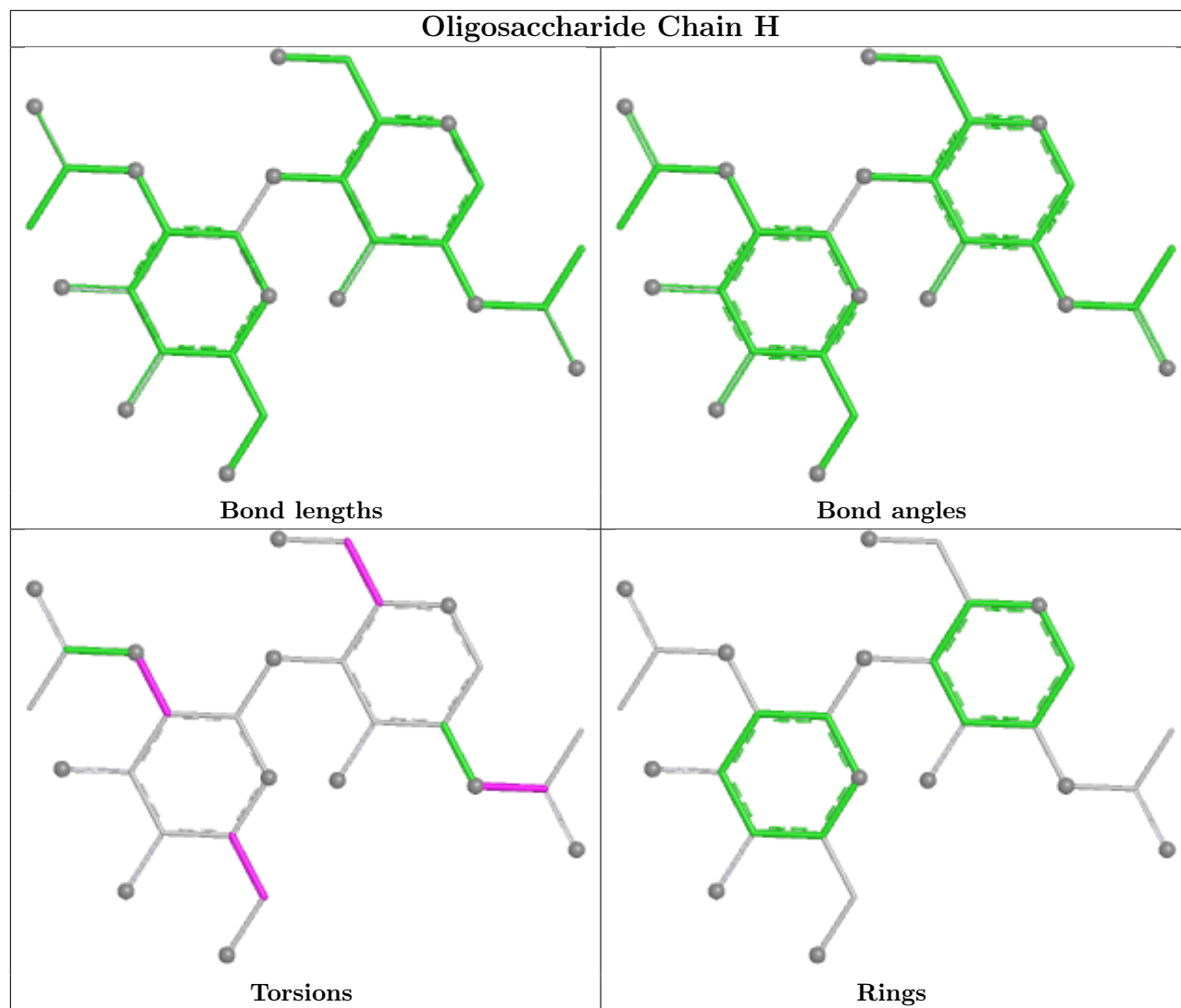
Mol	Chain	Res	Type	Atoms
4	I	1	NAG	O5-C5-C6-O6
5	H	2	NAG	O5-C5-C6-O6
5	H	1	NAG	O5-C5-C6-O6
4	I	1	NAG	C4-C5-C6-O6
5	H	2	NAG	C4-C5-C6-O6

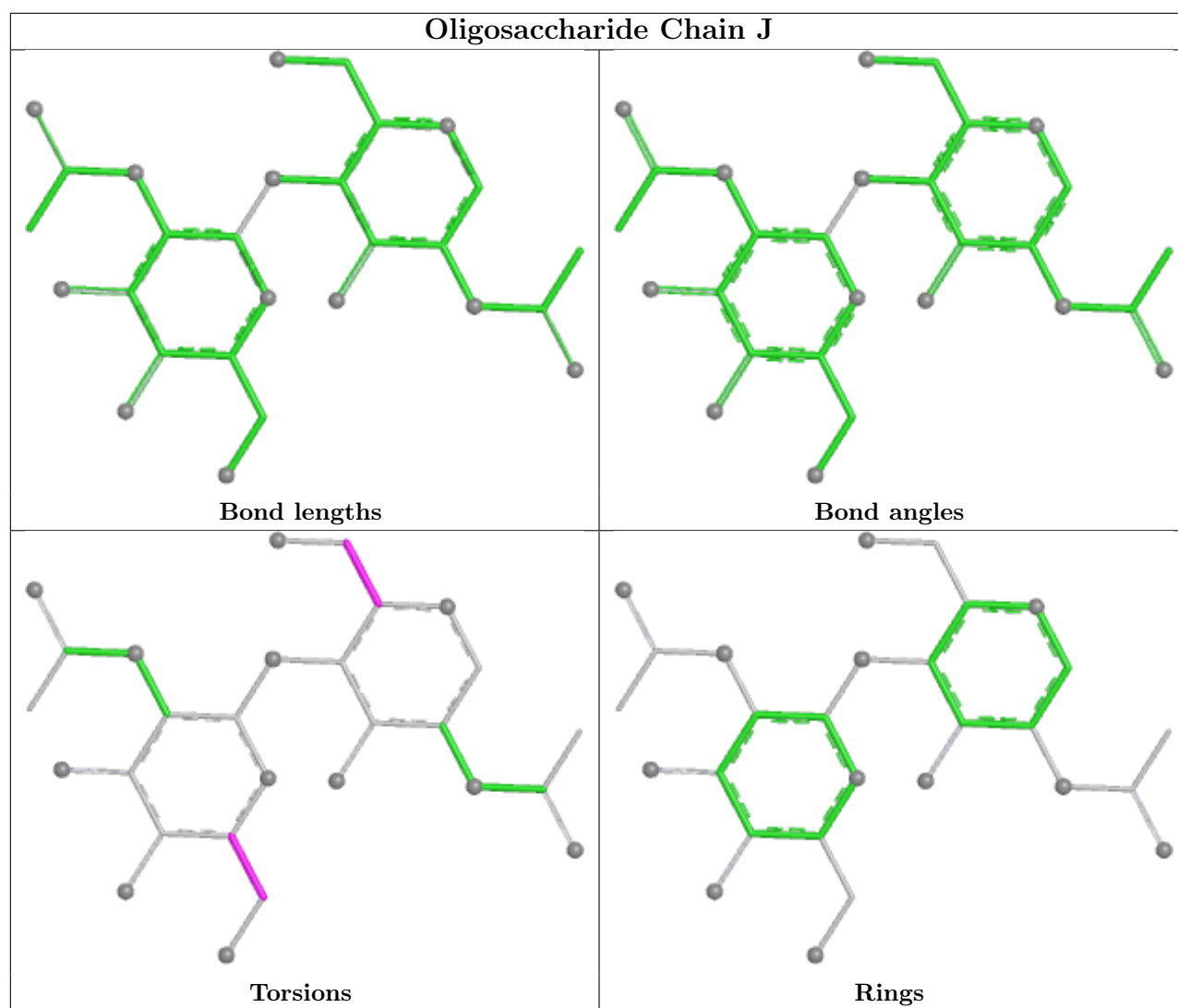
There are no ring outliers.

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](#)

There are no ligands in this entry.

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	318/331 (96%)	-0.08	9 (2%) 55 50	25, 35, 63, 134	0
1	D	316/331 (95%)	-0.18	7 (2%) 62 58	22, 32, 55, 91	0
2	B	217/228 (95%)	0.53	38 (17%) 4 3	27, 44, 118, 153	0
2	E	212/228 (92%)	0.67	43 (20%) 3 2	23, 35, 120, 149	0
3	C	210/214 (98%)	0.83	41 (19%) 3 2	25, 55, 104, 124	0
3	F	209/214 (97%)	0.96	54 (25%) 1 1	23, 51, 111, 133	0
All	All	1482/1546 (95%)	0.37	192 (12%) 7 6	22, 37, 105, 153	0

The worst 5 of 192 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	E	148	LEU	7.3
2	E	199	LEU	7.0
2	E	149	GLY	6.7
3	F	211	THR	5.9
3	F	187	TRP	5.3

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

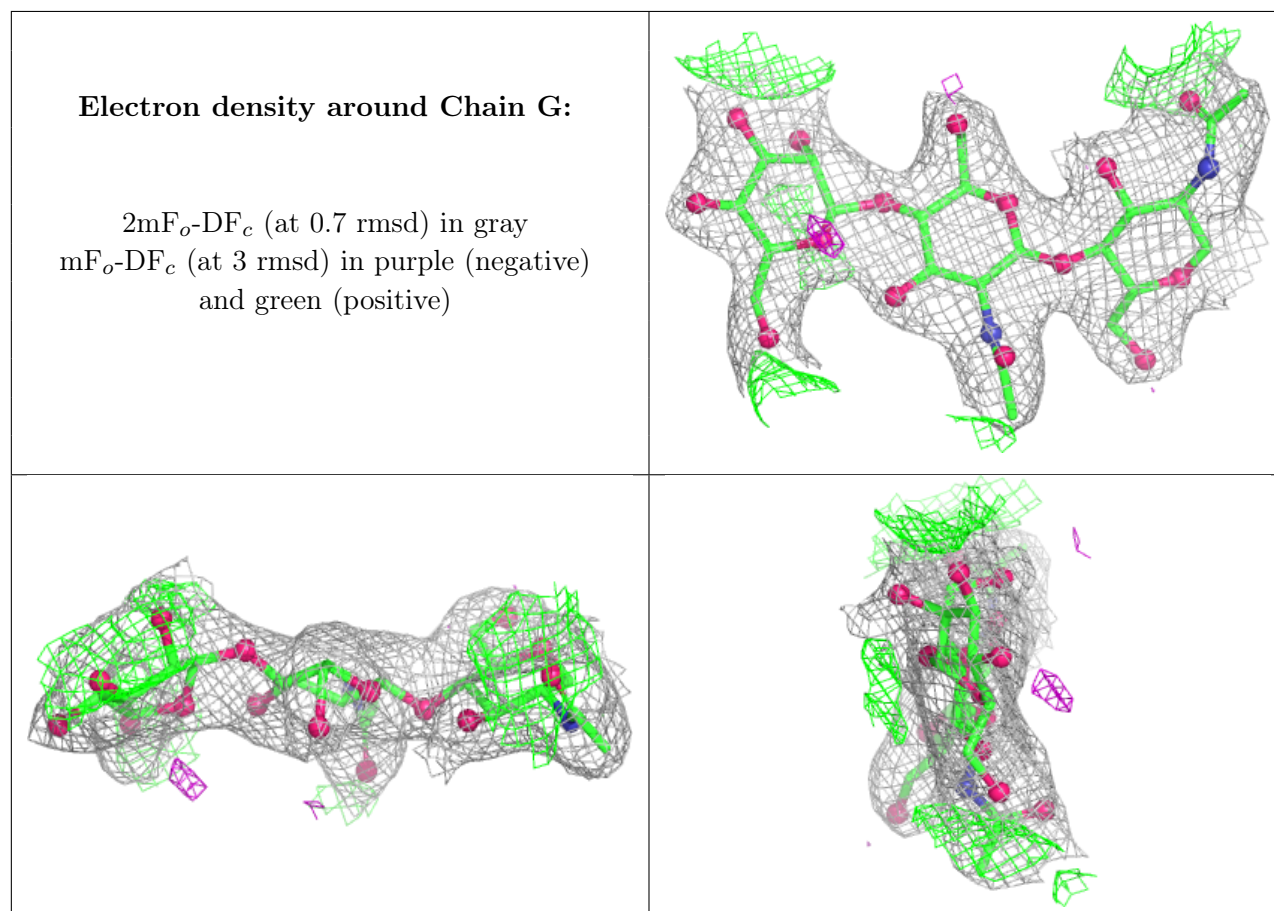
There are no non-standard protein/DNA/RNA residues in this entry.

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.

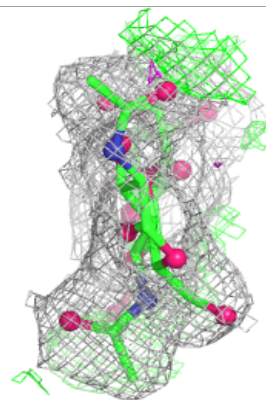
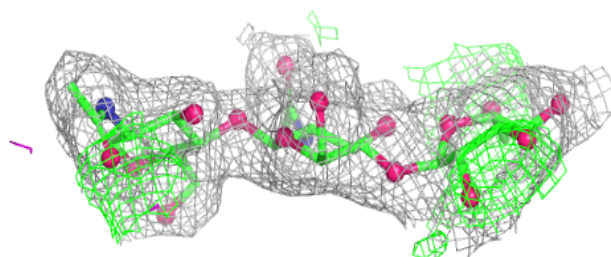
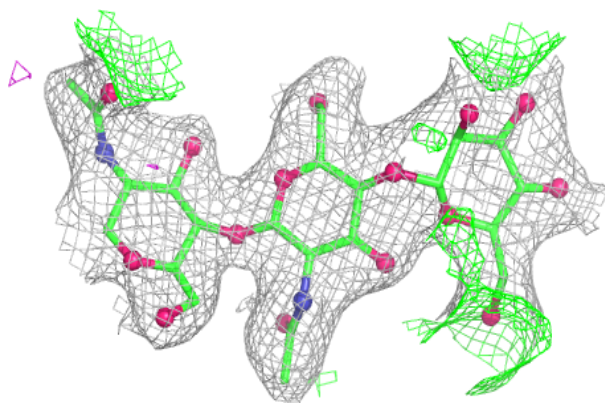
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	NAG	H	1	14/15	0.48	0.20	79,88,98,108	0
5	NAG	H	2	14/15	0.52	0.17	105,118,124,124	0
4	MAN	I	3	11/12	0.71	0.14	47,51,54,55	0
4	MAN	G	3	11/12	0.75	0.14	47,50,60,60	0
5	NAG	J	1	14/15	0.76	0.12	43,47,55,60	0
5	NAG	J	2	14/15	0.78	0.13	63,67,69,71	0
4	NAG	G	1	14/15	0.88	0.09	31,35,42,45	0
4	NAG	I	1	14/15	0.89	0.12	29,35,41,45	0
4	NAG	G	2	14/15	0.92	0.09	36,45,49,49	0
4	NAG	I	2	14/15	0.94	0.07	38,41,45,46	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.

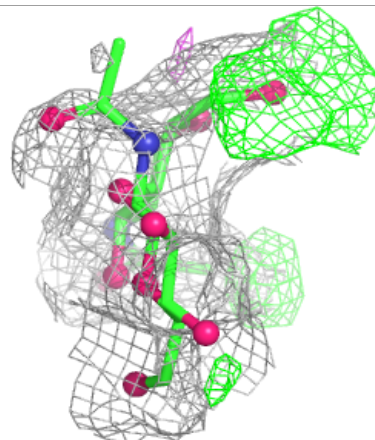
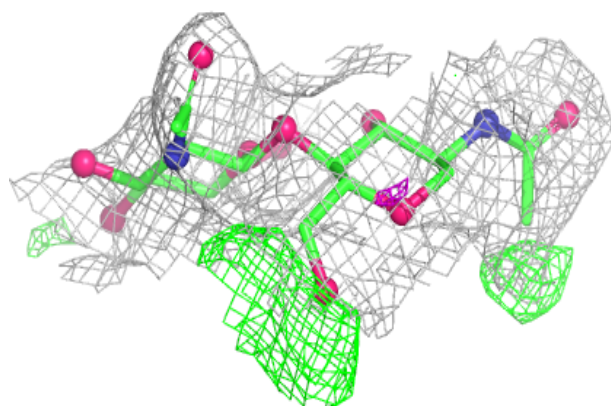
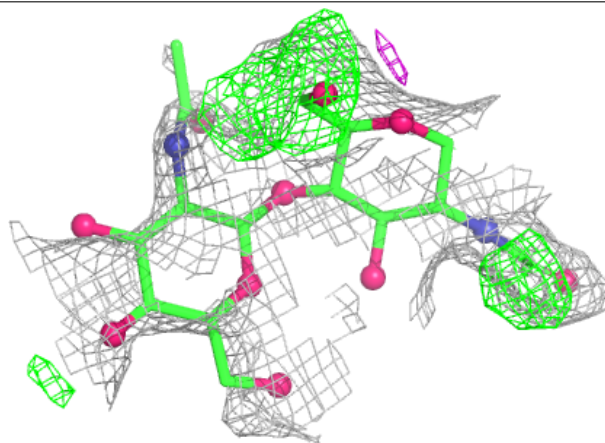


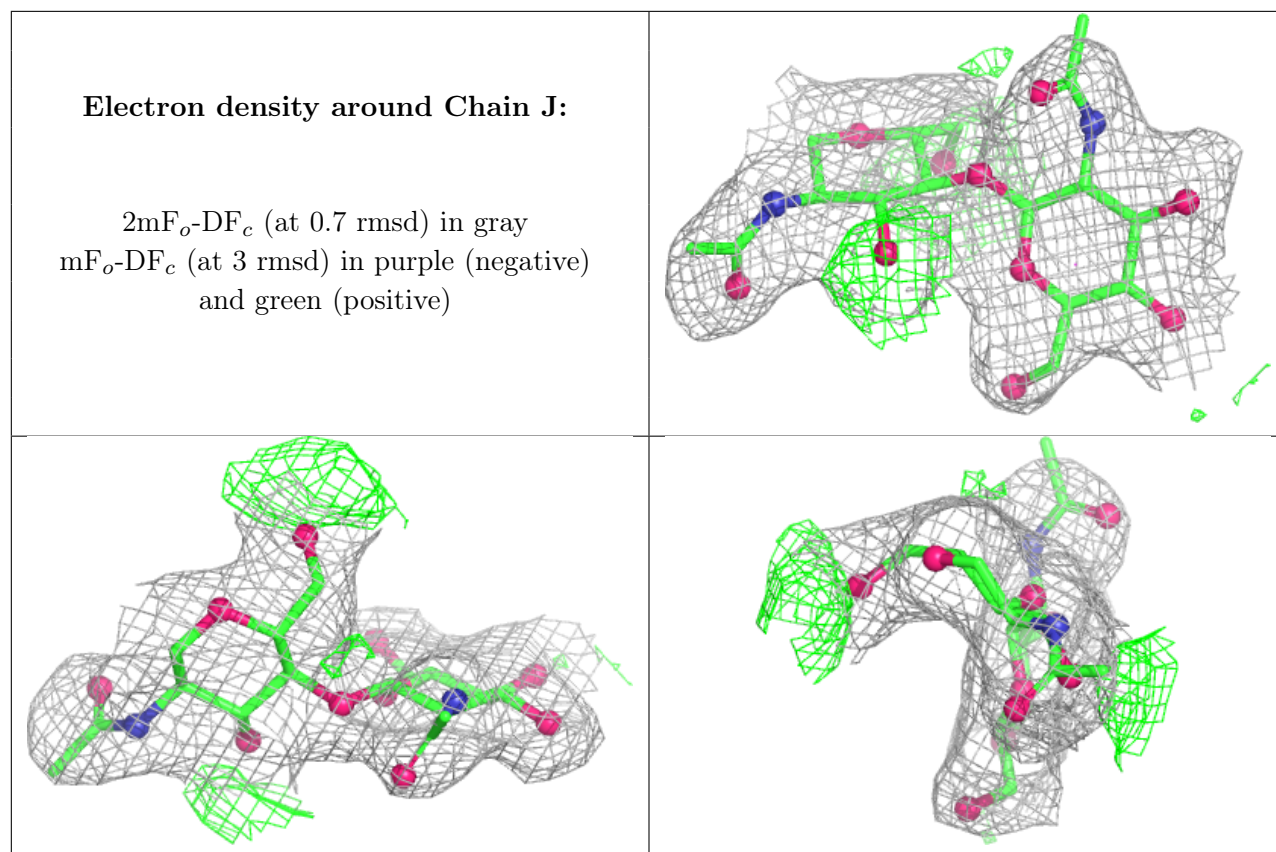
Electron density around Chain I:

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

**Electron density around Chain H:**

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





6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.