



wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 12, 2024 – 07:52 PM EST

PDB ID : 4GT7
Title : An engineered disulfide bond reversibly traps the IgE-Fc3-4 in a closed, non-receptor binding conformation
Authors : Wurzburg, B.A.; Kim, B.K.; Jardetzky, T.S.
Deposited on : 2012-08-28
Resolution : 2.61 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 : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.003 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

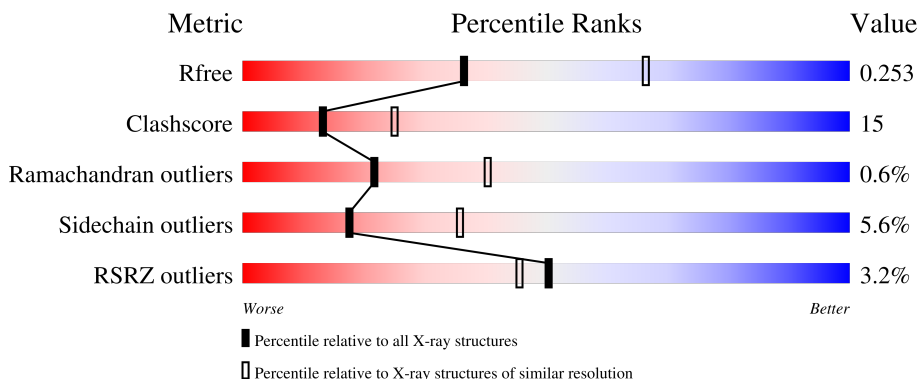
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.61 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}	164625	4623 (2.64-2.60)
Clashscore	180529	5071 (2.64-2.60)
Ramachandran outliers	177936	5006 (2.64-2.60)
Sidechain outliers	177891	5006 (2.64-2.60)
RSRZ outliers	164620	4622 (2.64-2.60)

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	221	
1	B	221	
1	C	221	
1	D	221	
2	E	5	

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Mol	Chain	Length	Quality of chain
2	F	5	 60% 40%
2	G	5	 60% 20% 20%
3	H	4	 75% 25%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7082 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.

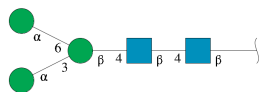
- Molecule 1 is a protein called Ig epsilon chain C region.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	212	1678	1049	311	311	7	0	0	0
1	B	213	1673	1048	306	312	7	0	0	0
1	C	214	1687	1055	311	314	7	0	0	0
1	D	213	1685	1054	312	312	7	0	0	0

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	325	ALA	-	expression tag	UNP P01854
A	326	ASP	-	expression tag	UNP P01854
A	327	PRO	-	expression tag	UNP P01854
A	328	ALA	-	expression tag	UNP P01854
A	335	CYS	GLY	engineered mutation	UNP P01854
B	325	ALA	-	expression tag	UNP P01854
B	326	ASP	-	expression tag	UNP P01854
B	327	PRO	-	expression tag	UNP P01854
B	328	ALA	-	expression tag	UNP P01854
B	335	CYS	GLY	engineered mutation	UNP P01854
C	325	ALA	-	expression tag	UNP P01854
C	326	ASP	-	expression tag	UNP P01854
C	327	PRO	-	expression tag	UNP P01854
C	328	ALA	-	expression tag	UNP P01854
C	335	CYS	GLY	engineered mutation	UNP P01854
D	325	ALA	-	expression tag	UNP P01854
D	326	ASP	-	expression tag	UNP P01854
D	327	PRO	-	expression tag	UNP P01854
D	328	ALA	-	expression tag	UNP P01854
D	335	CYS	GLY	engineered mutation	UNP P01854

- Molecule 2 is an oligosaccharide called alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]beta-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
			Total	C	N	O			
2	E	5	61	34	2	25	0	0	0
2	F	5	61	34	2	25	0	0	0
2	G	5	61	34	2	25	0	0	0

- Molecule 3 is an oligosaccharide called alpha-D-mannopyranose-(1-6)-beta-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
			Total	C	N	O			
3	H	4	50	28	2	20	0	0	0

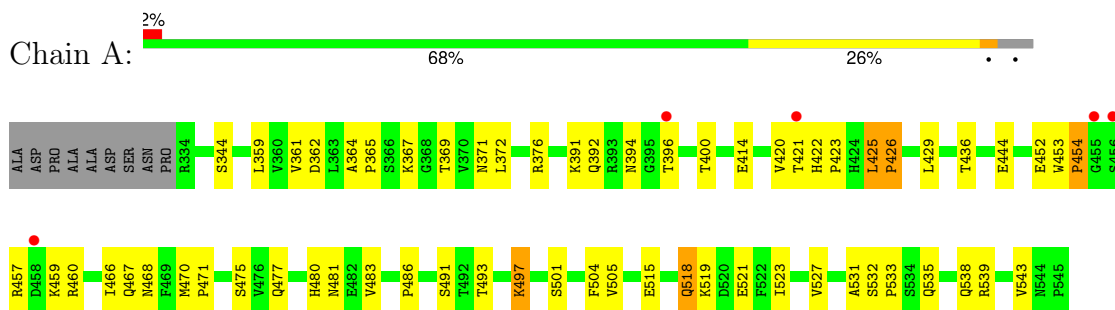
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	34	Total	O	0	0
			34	34		
4	B	24	Total	O	0	0
			24	24		
4	C	25	Total	O	0	0
			25	25		
4	D	43	Total	O	0	0
			43	43		

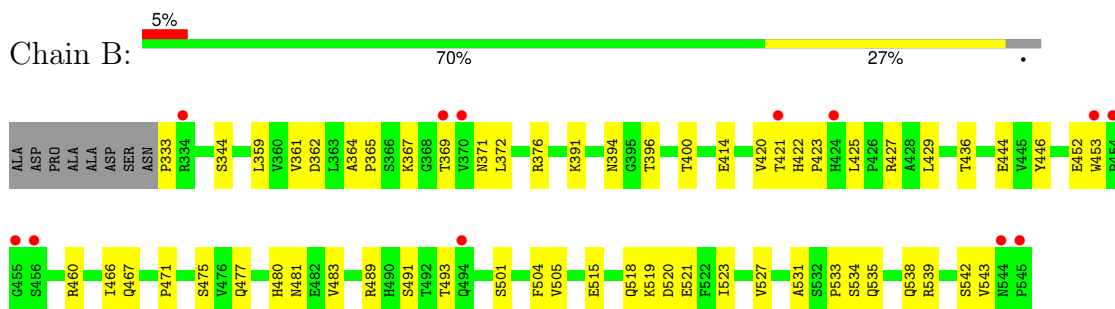
3 Residue-property plots [i](#)

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.

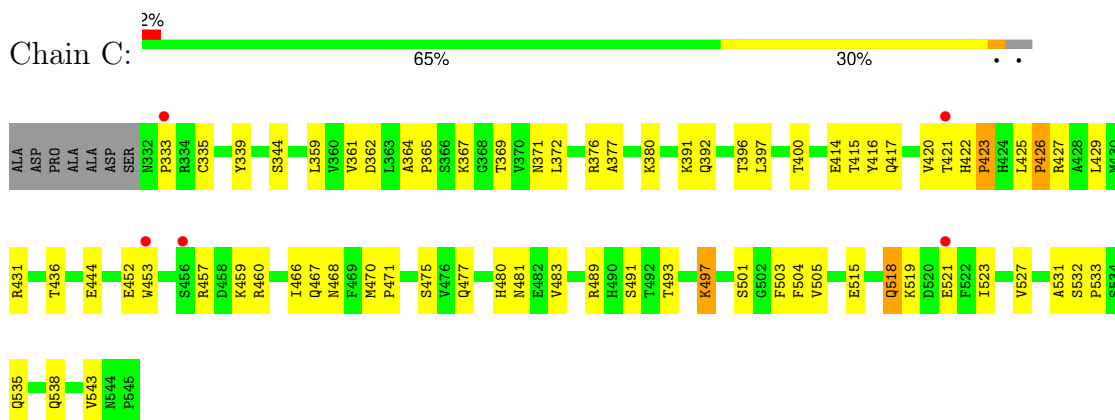
- Molecule 1: Ig epsilon chain C region



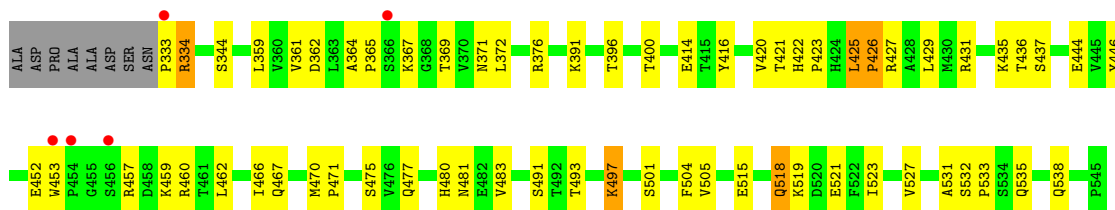
- Molecule 1: Ig epsilon chain C region



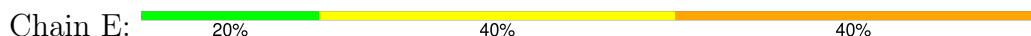
- Molecule 1: Ig epsilon chain C region



- Molecule 1: Ig epsilon chain C region



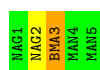
- Molecule 2: alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 2: alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 2: alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 3: alpha-D-mannopyranose-(1-6)-beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	106.75Å 104.81Å 45.90Å 90.00° 94.51° 90.00°	Depositor
Resolution (Å)	29.20 – 2.61 29.20 – 2.61	Depositor EDS
% Data completeness (in resolution range)	97.2 (29.20-2.61) 97.1 (29.20-2.61)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.12 (at 2.61Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.6.1_357)	Depositor
R, R_{free}	0.190 , 0.253 0.192 , 0.253	Depositor DCC
R_{free} test set	1395 reflections (4.68%)	wwPDB-VP
Wilson B-factor (Å ²)	46.7	Xtrriage
Anisotropy	0.074	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 66.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	7082	wwPDB-VP
Average B, all atoms (Å ²)	61.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.78% 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: MAN, NAG, BMA

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	0.46	0/1721	0.59	0/2343
1	B	0.45	0/1717	0.59	0/2340
1	C	0.44	0/1731	0.58	0/2359
1	D	0.46	0/1729	0.59	0/2354
All	All	0.45	0/6898	0.59	0/9396

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	1678	0	1661	56	0
1	B	1673	0	1647	50	0
1	C	1687	0	1663	65	0
1	D	1685	0	1669	51	0
2	E	61	0	52	1	0
2	F	61	0	52	1	0
2	G	61	0	52	1	0
3	H	50	0	43	0	0
4	A	34	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	24	0	0	1	0
4	C	25	0	0	2	0
4	D	43	0	0	1	0
All	All	7082	0	6839	202	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 15.

The worst 5 of 202 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:C:422:HIS:HB3	1:C:425:LEU:HB2	1.38	1.01
1:A:422:HIS:HD2	1:A:423:PRO:HD2	1.33	0.93
1:C:429:LEU:HD21	1:D:333:PRO:HG3	1.54	0.87
1:C:422:HIS:CG	1:C:423:PRO:HD2	2.09	0.86
1:D:481:ASN:HD21	1:D:519:LYS:HG2	1.44	0.82

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	210/221 (95%)	200 (95%)	8 (4%)	2 (1%)	13	26
1	B	211/221 (96%)	198 (94%)	13 (6%)	0	100	100
1	C	212/221 (96%)	199 (94%)	11 (5%)	2 (1%)	14	29
1	D	211/221 (96%)	201 (95%)	9 (4%)	1 (0%)	25	45
All	All	844/884 (96%)	798 (94%)	41 (5%)	5 (1%)	22	40

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	426	PRO
1	C	423	PRO
1	D	426	PRO
1	C	426	PRO
1	A	454	PRO

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	188/194 (97%)	177 (94%)	11 (6%)	16	33
1	B	187/194 (96%)	180 (96%)	7 (4%)	29	53
1	C	189/194 (97%)	178 (94%)	11 (6%)	17	34
1	D	189/194 (97%)	176 (93%)	13 (7%)	13	26
All	All	753/776 (97%)	711 (94%)	42 (6%)	17	36

5 of 42 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	518	GLN
1	D	477	GLN
1	D	334	ARG
1	D	425	LEU
1	D	491	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 9 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	424	HIS
1	D	481	ASN
1	B	490	HIS
1	C	481	ASN
1	C	518	GLN

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](#)

19 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	NAG	E	1	1,2	14,14,15	0.50	0	17,19,21	1.56	2 (11%)
2	NAG	E	2	2	14,14,15	0.44	0	17,19,21	0.94	1 (5%)
2	BMA	E	3	2	11,11,12	1.28	1 (9%)	15,15,17	1.31	1 (6%)
2	MAN	E	4	2	11,11,12	0.53	0	15,15,17	0.86	0
2	MAN	E	5	2	11,11,12	0.50	0	15,15,17	1.48	2 (13%)
2	NAG	F	1	1,2	14,14,15	0.52	0	17,19,21	1.15	2 (11%)
2	NAG	F	2	2	14,14,15	0.49	0	17,19,21	1.40	2 (11%)
2	BMA	F	3	2	11,11,12	1.03	0	15,15,17	1.39	3 (20%)
2	MAN	F	4	2	11,11,12	0.57	0	15,15,17	0.90	1 (6%)
2	MAN	F	5	2	11,11,12	0.65	0	15,15,17	1.19	2 (13%)
2	NAG	G	1	1,2	14,14,15	0.47	0	17,19,21	0.85	0
2	NAG	G	2	2	14,14,15	0.50	0	17,19,21	1.04	2 (11%)
2	BMA	G	3	2	11,11,12	1.23	1 (9%)	15,15,17	1.32	1 (6%)
2	MAN	G	4	2	11,11,12	0.58	0	15,15,17	1.01	0
2	MAN	G	5	2	11,11,12	0.64	0	15,15,17	0.80	0
3	NAG	H	1	1,3	14,14,15	0.60	0	17,19,21	0.92	1 (5%)
3	NAG	H	2	3	14,14,15	0.57	0	17,19,21	0.89	0
3	BMA	H	3	3	11,11,12	0.90	0	15,15,17	0.70	0
3	MAN	H	4	3	11,11,12	0.60	0	15,15,17	0.62	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	NAG	E	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	E	2	2	-	4/6/23/26	0/1/1/1
2	BMA	E	3	2	-	2/2/19/22	0/1/1/1
2	MAN	E	4	2	-	2/2/19/22	0/1/1/1
2	MAN	E	5	2	-	0/2/19/22	0/1/1/1
2	NAG	F	1	1,2	-	2/6/23/26	0/1/1/1
2	NAG	F	2	2	-	4/6/23/26	0/1/1/1
2	BMA	F	3	2	-	0/2/19/22	0/1/1/1
2	MAN	F	4	2	-	2/2/19/22	0/1/1/1
2	MAN	F	5	2	-	2/2/19/22	0/1/1/1
2	NAG	G	1	1,2	-	2/6/23/26	0/1/1/1
2	NAG	G	2	2	-	4/6/23/26	0/1/1/1
2	BMA	G	3	2	-	2/2/19/22	0/1/1/1
2	MAN	G	4	2	-	2/2/19/22	0/1/1/1
2	MAN	G	5	2	-	2/2/19/22	0/1/1/1
3	NAG	H	1	1,3	-	2/6/23/26	0/1/1/1
3	NAG	H	2	3	-	3/6/23/26	0/1/1/1
3	BMA	H	3	3	-	0/2/19/22	0/1/1/1
3	MAN	H	4	3	-	1/2/19/22	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	3	BMA	O3-C3	3.08	1.50	1.43
2	G	3	BMA	O3-C3	2.66	1.49	1.43

The worst 5 of 20 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	5	MAN	C1-O5-C5	4.36	118.03	112.19
2	E	3	BMA	O3-C3-C2	4.20	118.63	110.05
2	E	1	NAG	C2-N2-C7	-4.01	117.53	122.90
2	F	2	NAG	C1-O5-C5	3.97	117.51	112.19
2	G	3	BMA	O3-C3-C2	3.78	117.77	110.05

There are no chirality outliers.

5 of 36 torsion outliers are listed below:

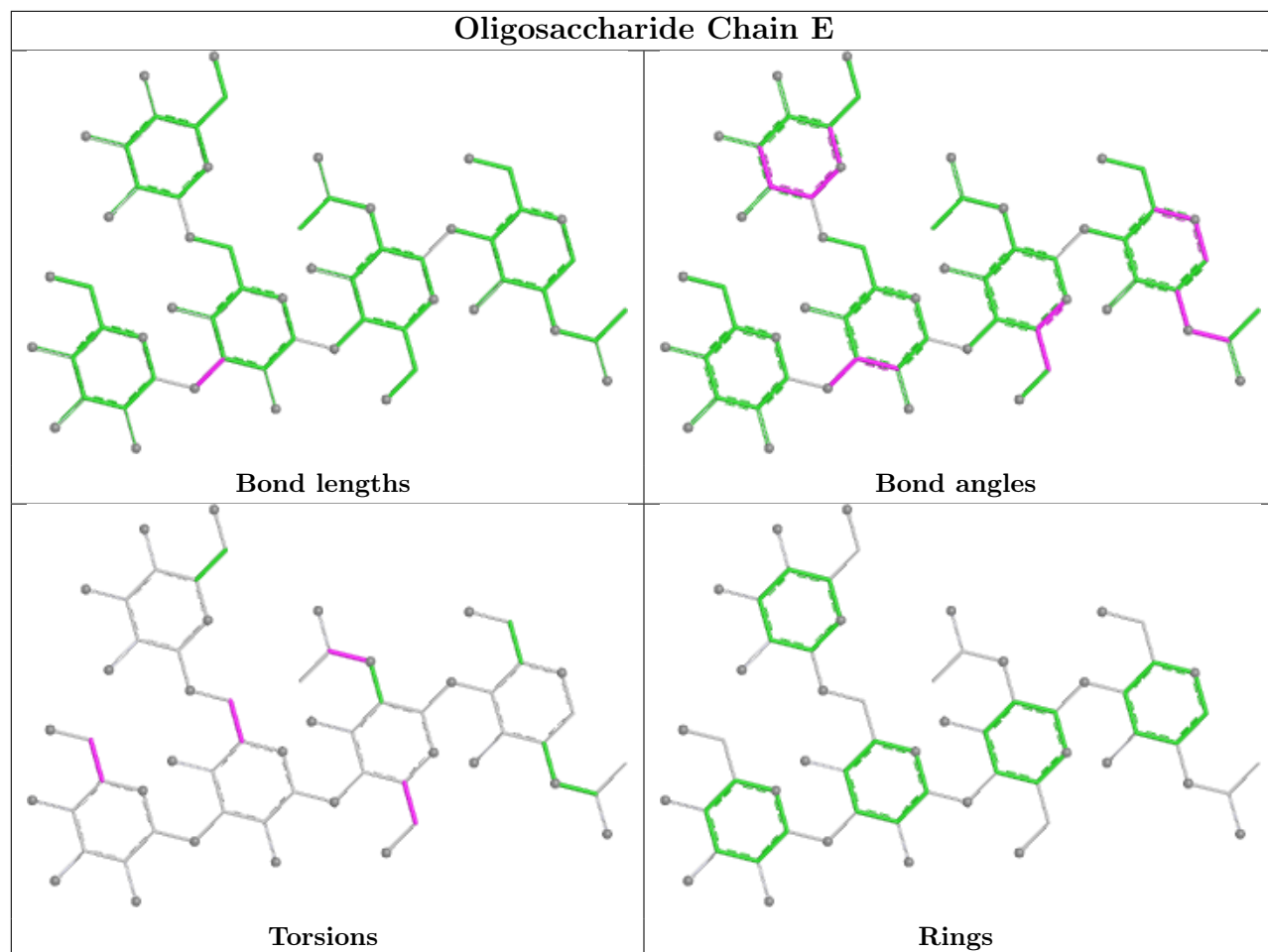
Mol	Chain	Res	Type	Atoms
2	E	2	NAG	C8-C7-N2-C2
2	E	2	NAG	O7-C7-N2-C2
2	F	1	NAG	C8-C7-N2-C2
2	F	1	NAG	O7-C7-N2-C2
2	F	2	NAG	C8-C7-N2-C2

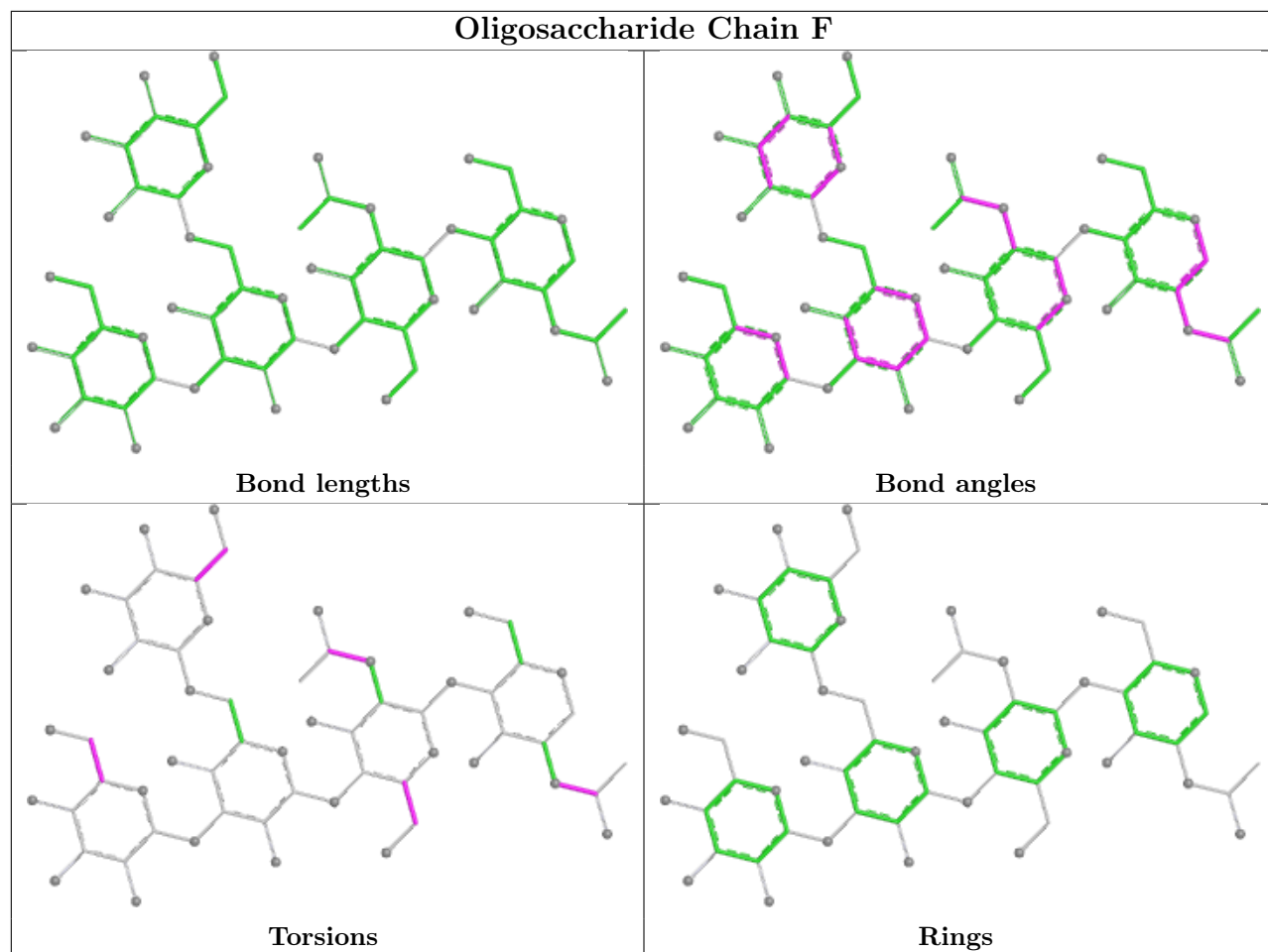
There are no ring outliers.

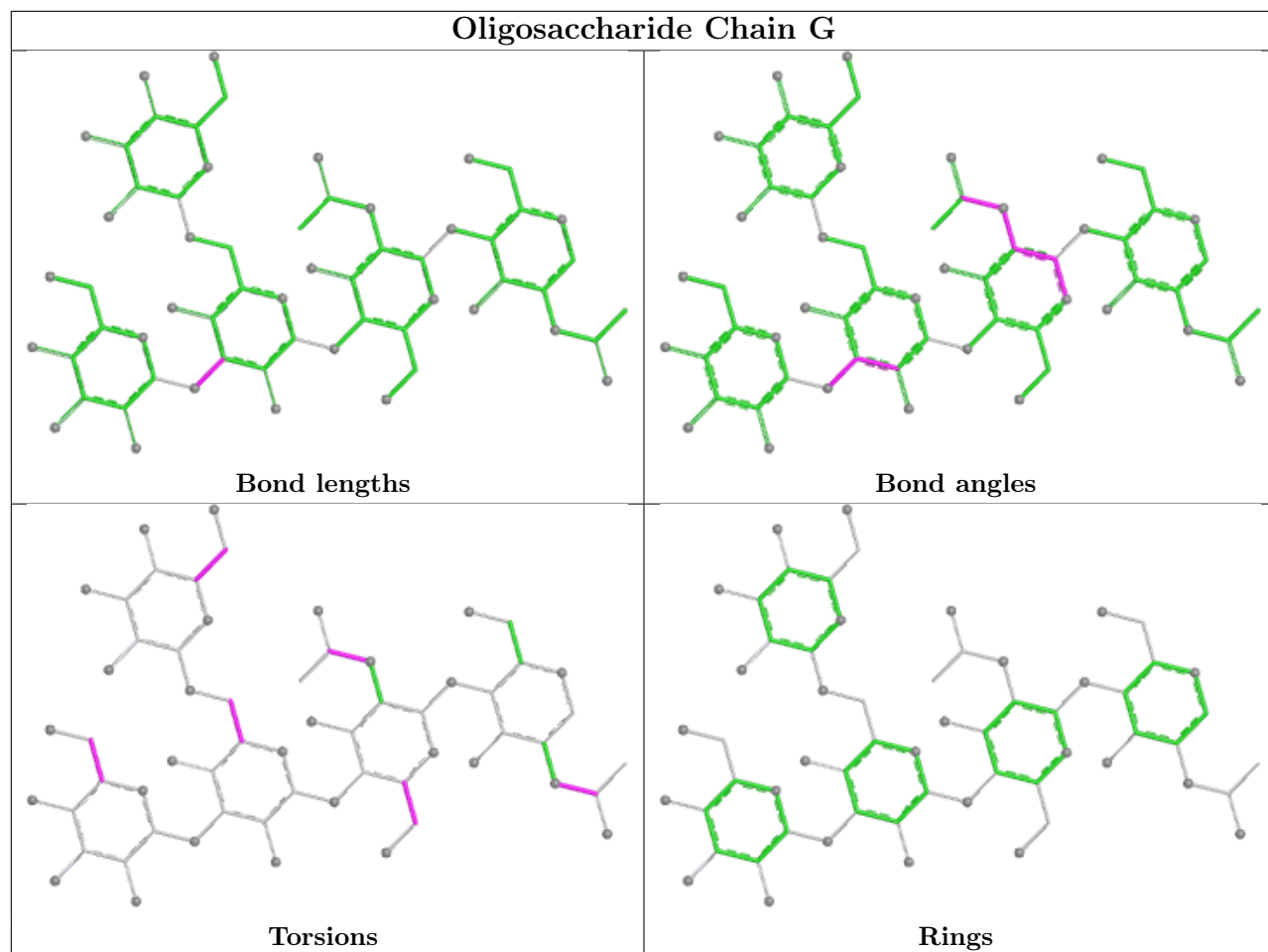
5 monomers are involved in 3 short contacts:

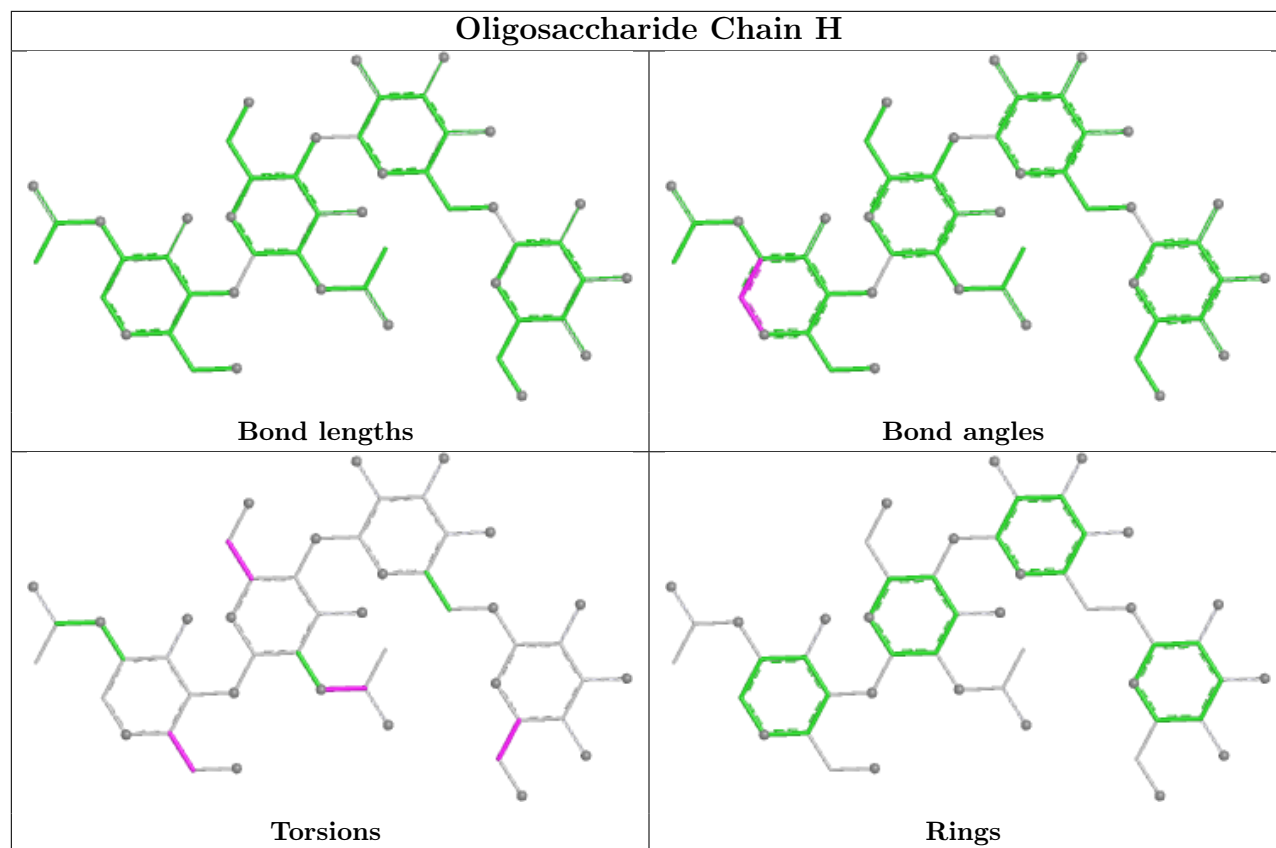
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	G	3	BMA	1	0
2	F	3	BMA	1	0
2	E	5	MAN	1	0
2	F	4	MAN	1	0
2	E	3	BMA	1	0

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](#)

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	212/221 (95%)	-0.09	5 (2%) 59 55	25, 50, 110, 158	0
1	B	213/221 (96%)	-0.01	12 (5%) 31 26	27, 51, 112, 157	0
1	C	214/221 (96%)	-0.04	5 (2%) 61 56	26, 56, 127, 164	0
1	D	213/221 (96%)	-0.19	5 (2%) 61 56	22, 50, 112, 157	0
All	All	852/884 (96%)	-0.08	27 (3%) 50 45	22, 52, 115, 164	0

The worst 5 of 27 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	369	THR	3.7
1	B	456	SER	3.1
1	A	421	THR	3.1
1	B	494	GLN	2.9
1	D	453	TRP	2.8

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.

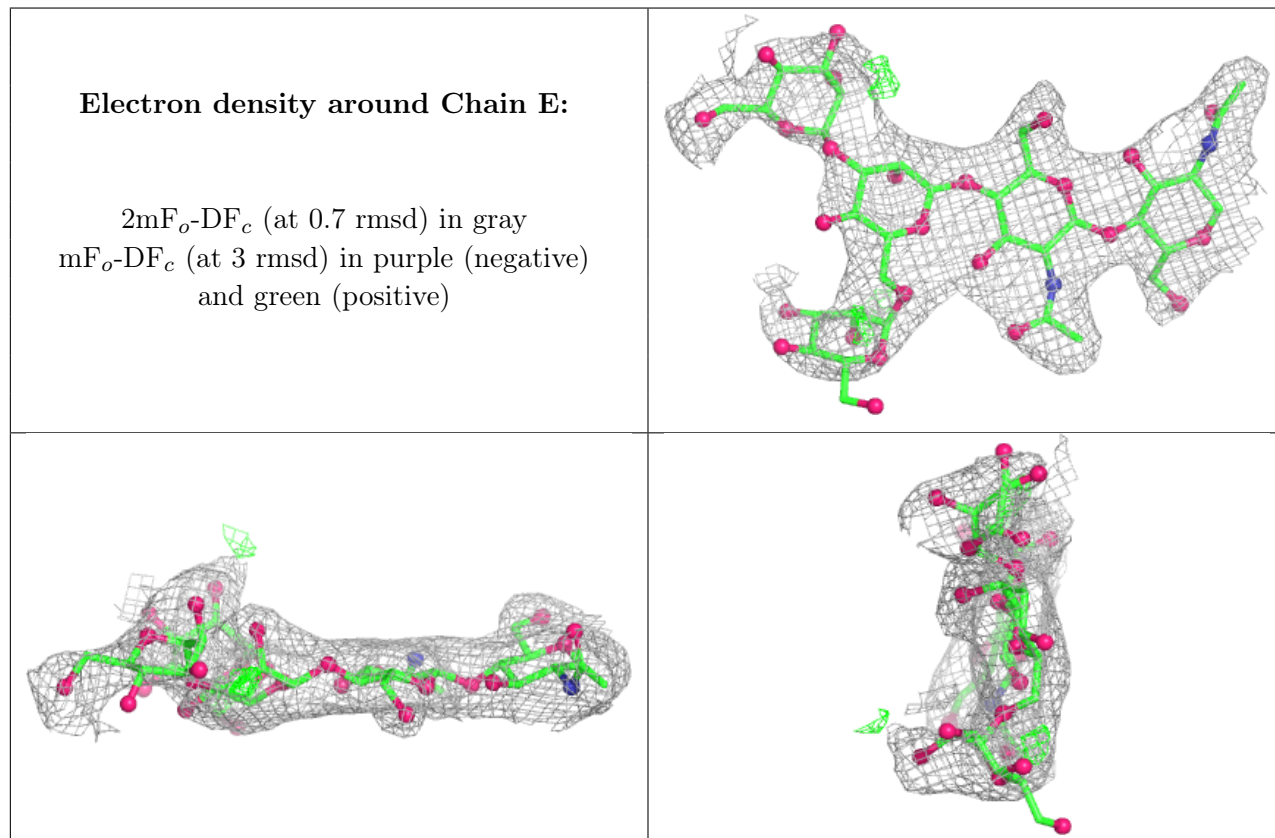
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	MAN	H	4	11/12	0.59	0.21	78,107,143,143	0
2	MAN	G	4	11/12	0.60	0.15	54,114,137,145	0

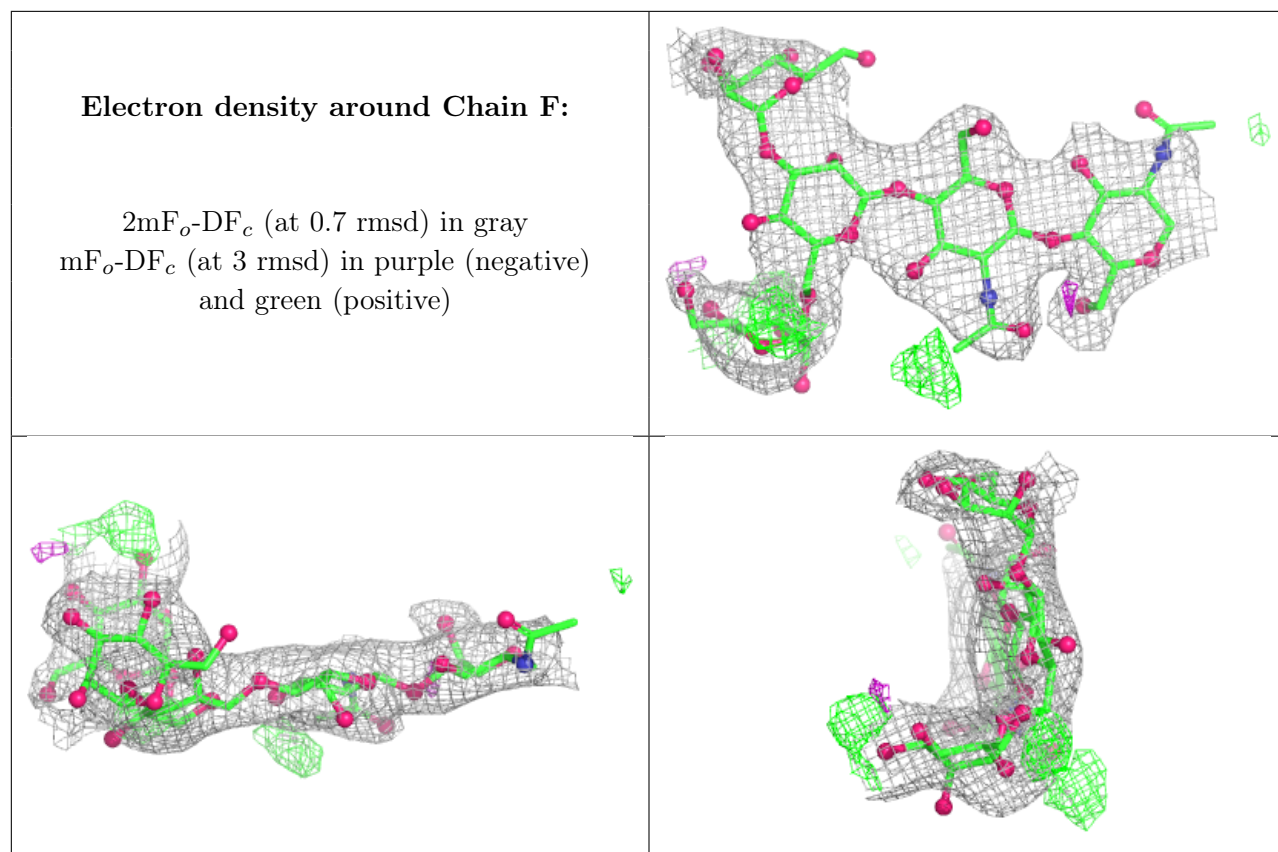
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	MAN	E	5	11/12	0.67	0.18	72,124,156,166	0
2	MAN	E	4	11/12	0.68	0.13	52,108,130,133	0
2	MAN	G	5	11/12	0.69	0.15	60,85,105,115	0
2	MAN	F	4	11/12	0.75	0.15	56,115,136,148	0
3	BMA	H	3	11/12	0.82	0.13	63,82,122,135	0
2	BMA	F	3	11/12	0.83	0.13	54,75,96,105	0
2	NAG	G	1	14/15	0.84	0.12	67,83,100,115	0
2	NAG	F	1	14/15	0.85	0.14	51,93,120,136	0
2	BMA	G	3	11/12	0.85	0.10	63,83,97,134	0
2	MAN	F	5	11/12	0.85	0.14	47,89,131,146	0
2	NAG	G	2	14/15	0.86	0.11	74,94,101,102	0
2	NAG	F	2	14/15	0.86	0.12	32,58,81,91	0
3	NAG	H	2	14/15	0.88	0.09	44,53,85,87	0
2	BMA	E	3	11/12	0.89	0.11	65,78,122,135	0
2	NAG	E	2	14/15	0.89	0.08	41,61,80,80	0
2	NAG	E	1	14/15	0.91	0.08	28,73,91,119	0
3	NAG	H	1	14/15	0.94	0.07	35,70,87,106	0

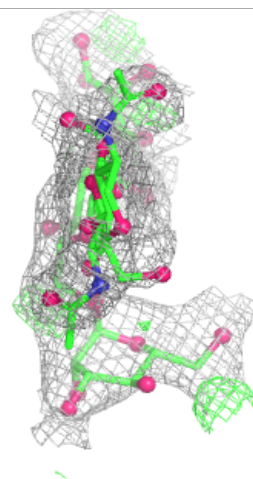
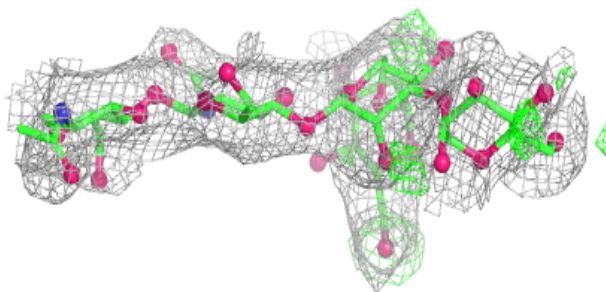
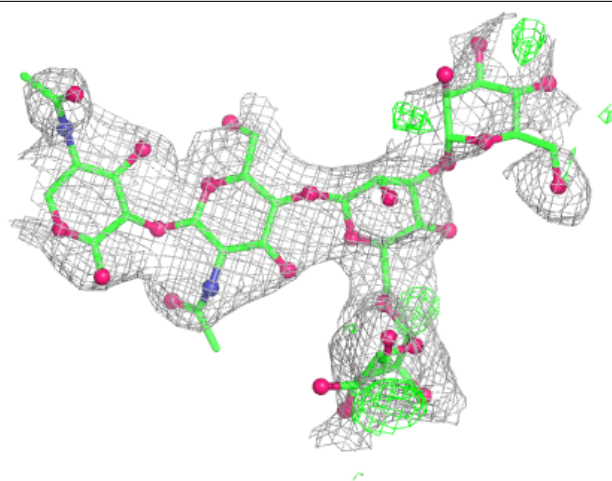
The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.

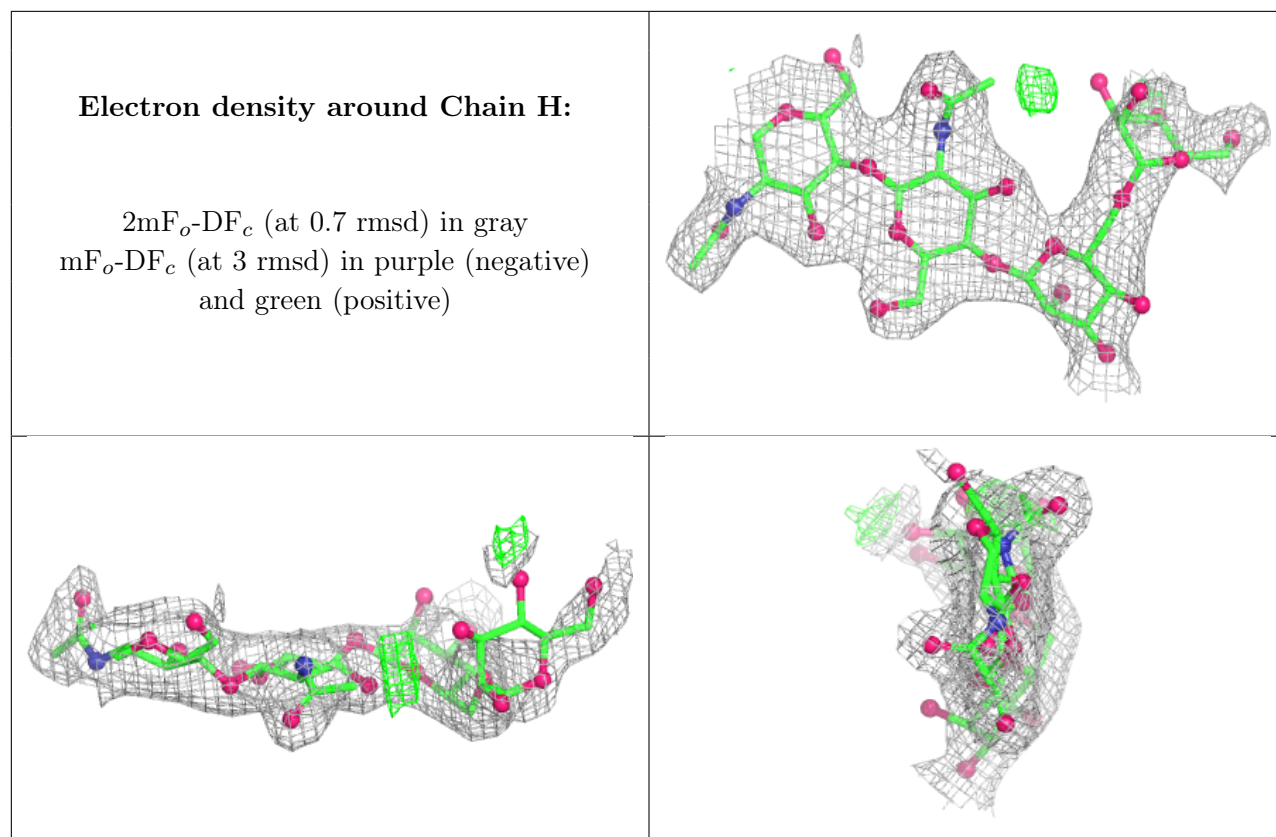




Electron density around Chain G:

$2mF_o-DF_c$ (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.