



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 04:31 AM UTC

PDB ID : 9O6O / pdb_00009o6o
Title : Structure of SigLec-10 in complex with 2,6-Sialyllactose
Authors : Medina, E.; Ming, Q.; Tran, T.H.; Luca, V.C.
Deposited on : 2025-04-14
Resolution : 2.70 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 ⓘ 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	:	NOT EXECUTED
Xtriage (Phenix)	:	2.0
EDS	:	NOT EXECUTED
Buster-report	:	NOT EXECUTED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

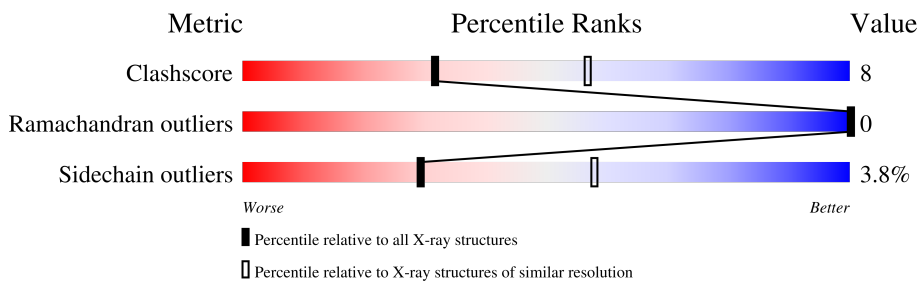
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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))
Clashscore	190562	3843 (2.70-2.70)
Ramachandran outliers	187476	3778 (2.70-2.70)
Sidechain outliers	187428	3778 (2.70-2.70)

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 $\leq 5\%$.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	219	
1	B	219	
1	D	219	
2	C	3	
3	E	2	

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 5397 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.

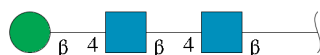
- Molecule 1 is a protein called Sialic acid-binding Ig-like lectin 10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	219	Total	C	N	O	S	0	0	0
			1735	1099	301	325	10			
1	A	218	Total	C	N	O	S	0	0	0
			1732	1097	301	324	10			
1	D	219	Total	C	N	O	S	0	0	0
			1739	1102	302	325	10			

There are 3 discrepancies between the modelled and reference sequences:

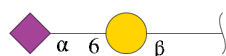
Chain	Residue	Modelled	Actual	Comment	Reference
B	17	PRO	-	expression tag	UNP Q96LC7
A	17	PRO	-	expression tag	UNP Q96LC7
D	17	PRO	-	expression tag	UNP Q96LC7

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



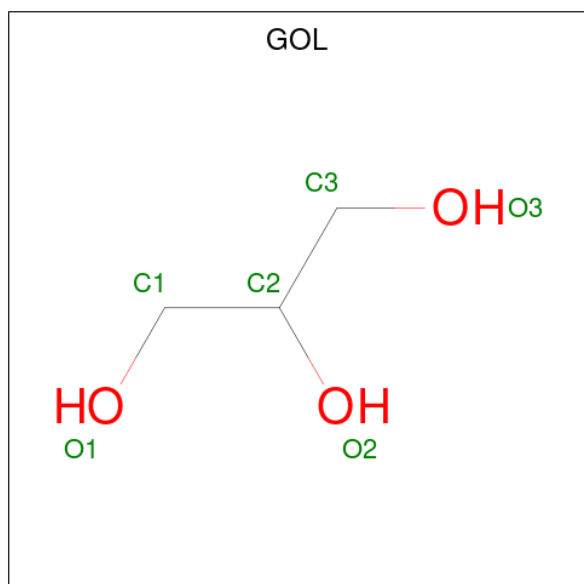
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	C	3	Total	C	N	O	0	0	0
			39	22	2	15			

- Molecule 3 is an oligosaccharide called N-acetyl-alpha-neuraminic acid-(2-6)-beta-D-galactopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	E	2	Total	C	N	O	0	0	0
			32	17	1	14			

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$) (labeled as "Ligand of Interest" by depositor).



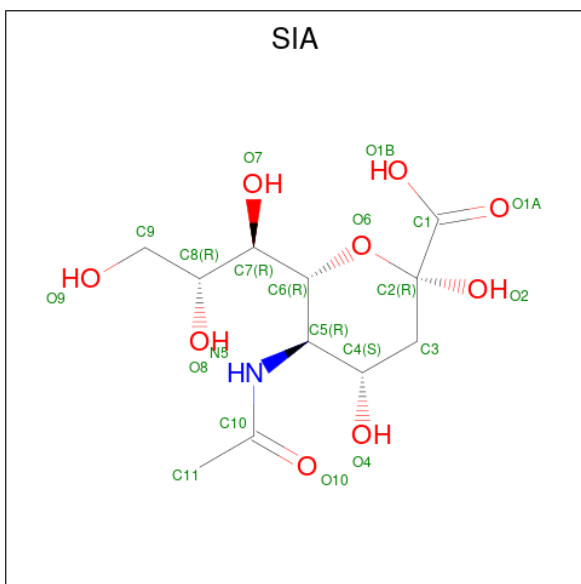
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		
4	A	1	Total	C	O	0	0
			6	3	3		
4	A	1	Total	C	O	0	0
			6	3	3		
4	A	1	Total	C	O	0	0
			6	3	3		
4	D	1	Total	C	O	0	0
			6	3	3		
4	D	1	Total	C	O	0	0
			6	3	3		

- Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total	C	N	O	0	0
			14	8	1	5		
5	D	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 6 is N-acetyl-alpha-neuraminic acid (CCD ID: SIA) (formula: $C_{11}H_{19}NO_9$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	A	1	Total	C	N	O	0	0
			21	11	1	9		

- Molecule 7 is water.


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	B	7	Total 7	O 7	0	0
7	A	7	Total 7	O 7	0	0
7	D	3	Total 3	O 3	0	0

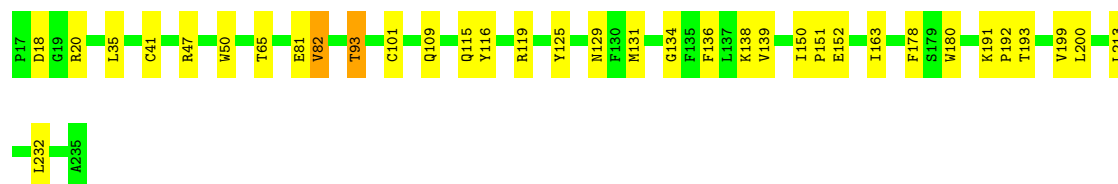
3 Residue-property plots [i](#)

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. 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. 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.


Note EDS was not executed.

- Molecule 1: Sialic acid-binding Ig-like lectin 10

Chain B: 




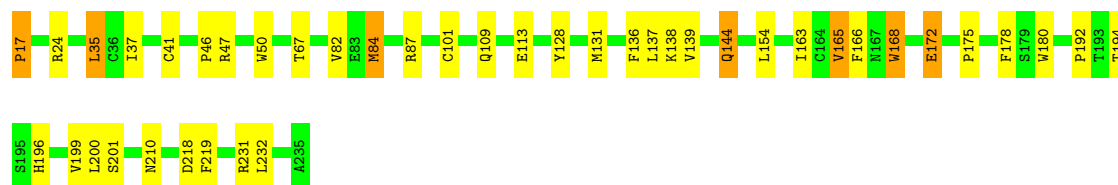
- Molecule 1: Sialic acid-binding Ig-like lectin 10

Chain A: 



- Molecule 1: Sialic acid-binding Ig-like lectin 10

Chain D: 



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

Chain C: 



- Molecule 3: N-acetyl-alpha-neuraminic acid-(2-6)-beta-D-galactopyranose

Chain E:  50% 50%


GAL1
STAG

4 Data and refinement statistics

EDS was not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	83.19Å 83.19Å 484.67Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	39.37 – 2.70	Depositor
% Data completeness (in resolution range)	99.6 (39.37-2.70)	Depositor
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.08 (at 2.69Å)	Xtriage
Refinement program	REFMAC 5.8.0425	Depositor
R, R_{free}	0.221 , 0.276	Depositor
Wilson B-factor (Å ²)	72.0	Xtriage
Anisotropy	0.397	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	5397	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.73% 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: NAG, SIA, GAL, BMA, 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	0.79	0/1783	1.18	2/2428 (0.1%)
1	B	0.58	0/1787	1.11	2/2435 (0.1%)
1	D	0.56	0/1791	1.09	3/2439 (0.1%)
All	All	0.65	0/5361	1.13	7/7302 (0.1%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	93	THR	N-CA-CB	-5.84	101.56	110.26
1	A	143	THR	N-CA-C	-5.58	107.12	114.31
1	B	125	TYR	N-CA-CB	5.47	118.41	110.26
1	D	67	THR	CA-CB-OG1	-5.35	101.57	109.60
1	D	165	VAL	N-CA-CB	-5.30	102.76	111.45
1	A	172	GLU	N-CA-C	-5.21	106.87	113.18
1	D	172	GLU	CB-CG-CD	5.11	121.29	112.60

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	1732	0	1652	38	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	1735	0	1649	23	0
1	D	1739	0	1660	29	0
2	C	39	0	34	0	0
3	E	32	0	28	1	0
4	A	18	0	24	4	0
4	B	24	0	32	0	0
4	D	12	0	16	0	0
5	B	14	0	13	0	0
5	D	14	0	13	0	0
6	A	21	0	18	0	0
7	A	7	0	0	0	0
7	B	7	0	0	0	0
7	D	3	0	0	0	0
All	All	5397	0	5139	85	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 8.

All (85) 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:B:163:ILE:HG22	1:B:199:VAL:HG22	1.51	0.93
1:D:82:VAL:HG23	1:D:87:ARG:HG2	1.59	0.85
1:A:73:VAL:CG1	1:A:90:PHE:CD2	2.62	0.83
1:A:149:TYR:HB2	1:A:163:ILE:HG13	1.68	0.76
1:D:175:PRO:HB3	1:D:196:HIS:CE1	2.23	0.73
1:A:168:TRP:CD1	4:A:303:GOL:H32	2.23	0.73
1:A:156:PRO:HG3	1:A:234:VAL:HG12	1.72	0.70
1:B:119:ARG:HH11	1:B:129:ASN:ND2	1.90	0.69
1:A:73:VAL:HG21	1:A:116:TYR:HE1	1.59	0.68
1:D:166:PHE:CE2	1:D:219:PHE:HZ	2.11	0.67
1:B:115:GLN:NE2	1:B:136:PHE:HB2	2.09	0.67
1:D:166:PHE:HE2	1:D:219:PHE:HZ	1.46	0.64
1:B:163:ILE:CG2	1:B:199:VAL:HG22	2.27	0.61
1:D:144:GLN:HG3	1:D:168:TRP:HD1	1.66	0.61
1:B:213:LEU:HB2	1:B:232:LEU:HD11	1.83	0.61
1:A:155:GLU:HB3	1:A:158:GLN:HG2	1.82	0.60
1:A:168:TRP:HA	1:A:168:TRP:CE3	2.37	0.59
1:A:66:GLU:HG3	4:A:304:GOL:H11	1.84	0.59
1:B:47:ARG:HA	1:B:50:TRP:NE1	2.17	0.59
1:B:119:ARG:HH11	1:B:129:ASN:HD21	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:163:ILE:HD13	1:D:163:ILE:HG21	1.84	0.58
1:B:82:VAL:HG13	1:A:52:GLY:O	2.04	0.57
1:A:73:VAL:HG11	1:A:90:PHE:CD2	2.40	0.57
1:A:41:CYS:HB3	1:A:101:CYS:C	2.29	0.57
1:B:119:ARG:HB2	1:B:129:ASN:HD22	1.69	0.57
1:A:163:ILE:HG21	1:D:163:ILE:HG12	1.86	0.57
1:A:149:TYR:HB2	1:A:163:ILE:CG1	2.35	0.57
1:A:113:GLU:HG3	1:A:137:LEU:O	2.06	0.55
1:A:161:THR:HG21	1:D:199:VAL:HG21	1.88	0.55
1:B:119:ARG:HD2	1:B:129:ASN:HD21	1.73	0.53
1:D:144:GLN:HG3	1:D:168:TRP:CD1	2.44	0.52
1:A:107:ASP:O	1:A:109:GLN:HG3	2.10	0.52
1:D:47:ARG:HA	1:D:50:TRP:NE1	2.25	0.51
1:D:37:ILE:HD12	1:D:168:TRP:HH2	1.76	0.51
1:A:22:TRP:HB2	1:A:24:ARG:NH1	2.26	0.51
1:B:41:CYS:HB3	1:B:101:CYS:C	2.36	0.50
1:A:89:ARG:HH22	1:A:112:ASP:CG	2.19	0.50
1:D:168:TRP:O	1:D:168:TRP:HE3	1.95	0.50
1:B:109:GLN:O	1:B:139:VAL:HG21	2.11	0.50
1:D:41:CYS:HB3	1:D:101:CYS:C	2.36	0.50
1:A:66:GLU:HG3	4:A:304:GOL:C1	2.41	0.49
1:B:116:TYR:O	1:B:134:GLY:HA3	2.12	0.49
1:D:84:MET:HE3	1:D:84:MET:H	1.77	0.49
1:A:109:GLN:O	1:A:139:VAL:HG21	2.12	0.48
1:D:180:TRP:CD2	1:D:200:LEU:HD22	2.48	0.48
1:D:178:PHE:O	1:D:192:PRO:HA	2.13	0.48
1:D:172:GLU:OE1	1:D:172:GLU:N	2.30	0.48
1:D:109:GLN:O	1:D:139:VAL:HG21	2.15	0.47
1:D:175:PRO:HB3	1:D:196:HIS:NE2	2.30	0.47
1:D:128:TYR:CE1	3:E:2:SIA:H91	2.50	0.46
1:D:166:PHE:HE2	1:D:219:PHE:CZ	2.29	0.46
1:D:175:PRO:HG2	1:D:194:THR:HG22	1.97	0.46
1:D:47:ARG:HA	1:D:50:TRP:CE2	2.50	0.46
1:B:180:TRP:CD2	1:B:200:LEU:HD22	2.51	0.46
1:D:136:PHE:HE2	1:D:138:LYS:HD2	1.81	0.45
1:A:56:ALA:HB2	1:A:122:ARG:HD2	1.98	0.45
1:B:178:PHE:O	1:B:192:PRO:HA	2.17	0.45
1:D:113:GLU:HG3	1:D:137:LEU:O	2.16	0.45
1:B:150:ILE:HG13	1:B:151:PRO:HD2	1.99	0.45
1:A:232:LEU:HD12	1:A:232:LEU:N	2.31	0.45
1:B:115:GLN:HE21	1:B:136:PHE:HB2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:47:ARG:HA	1:A:50:TRP:NE1	2.32	0.45
1:D:17:PRO:HA	1:D:46:PRO:HG3	2.00	0.44
1:A:47:ARG:HA	1:A:50:TRP:CE2	2.52	0.44
1:A:73:VAL:HG12	1:A:90:PHE:CD2	2.50	0.44
1:A:176:PRO:HD3	4:A:303:GOL:H12	2.00	0.43
1:A:191:LYS:HE2	1:A:191:LYS:HB3	1.89	0.43
1:B:18:ASP:HB3	1:B:20:ARG:HG3	2.02	0.42
1:A:91:GLN:NE2	1:A:93:THR:HG22	2.33	0.42
1:B:81:GLU:OE2	1:A:52:GLY:HA2	2.20	0.42
1:B:191:LYS:O	1:B:193:THR:HG23	2.19	0.42
1:A:158:GLN:O	1:A:158:GLN:HG3	2.19	0.42
1:A:91:GLN:HE21	1:A:93:THR:HG22	1.85	0.41
1:A:232:LEU:N	1:A:232:LEU:CD1	2.83	0.41
1:B:232:LEU:H	1:B:232:LEU:HD12	1.84	0.41
1:B:119:ARG:HB2	1:B:129:ASN:ND2	2.35	0.41
1:B:131:MET:HE3	1:B:131:MET:HB2	1.96	0.41
1:A:205:ARG:HE	1:A:205:ARG:HB2	1.63	0.41
1:A:37:ILE:HG13	1:A:170:PHE:CE2	2.55	0.41
1:A:81:GLU:H	1:A:81:GLU:CD	2.28	0.41
1:A:33:GLU:HG3	1:A:221:ARG:HH22	1.86	0.40
1:D:154:LEU:HD11	1:D:232:LEU:HD22	2.03	0.40
1:A:180:TRP:H	1:A:190:THR:HG1	1.65	0.40
1:D:172:GLU:H	1:D:172:GLU:CD	2.19	0.40
1:D:35:LEU:N	1:D:35:LEU:HD23	2.36	0.40

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	216/219 (99%)	209 (97%)	7 (3%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	217/219 (99%)	213 (98%)	4 (2%)	0	100	100
1	D	217/219 (99%)	212 (98%)	5 (2%)	0	100	100
All	All	650/657 (99%)	634 (98%)	16 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	192/193 (100%)	188 (98%)	4 (2%)	47	75
1	B	192/193 (100%)	186 (97%)	6 (3%)	35	65
1	D	193/193 (100%)	181 (94%)	12 (6%)	16	39
All	All	577/579 (100%)	555 (96%)	22 (4%)	29	58

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	35	LEU
1	B	65	THR
1	B	82	VAL
1	B	93	THR
1	B	138	LYS
1	B	152	GLU
1	A	49	ASP
1	A	81	GLU
1	A	188	GLN
1	A	199	VAL
1	D	17	PRO
1	D	24	ARG
1	D	35	LEU
1	D	84	MET
1	D	131	MET
1	D	144	GLN

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Mol	Chain	Res	Type
1	D	165	VAL
1	D	168	TRP
1	D	201	SER
1	D	210	ASN
1	D	218	ASP
1	D	231	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	26	GLN
1	B	129	ASN
1	B	210	ASN
1	A	227	GLN
1	D	216	HIS
1	D	227	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

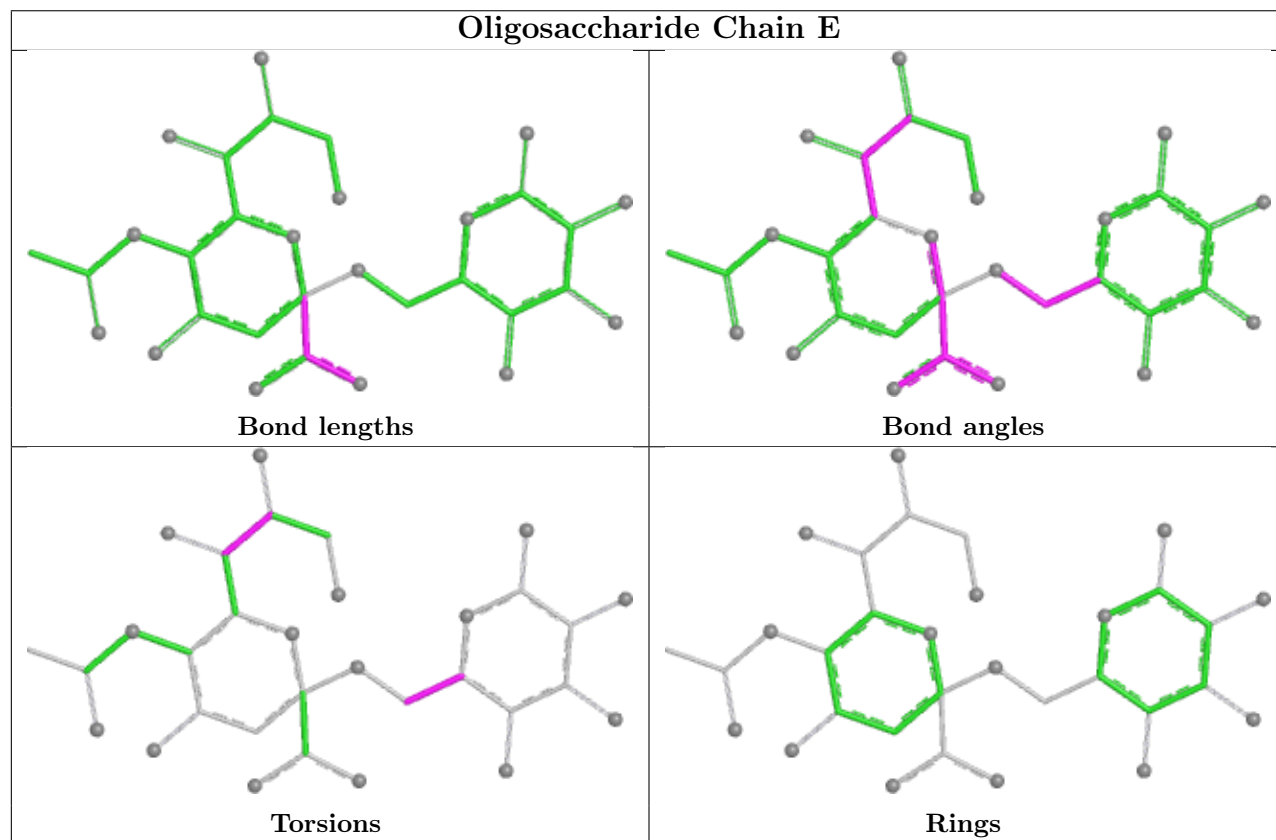
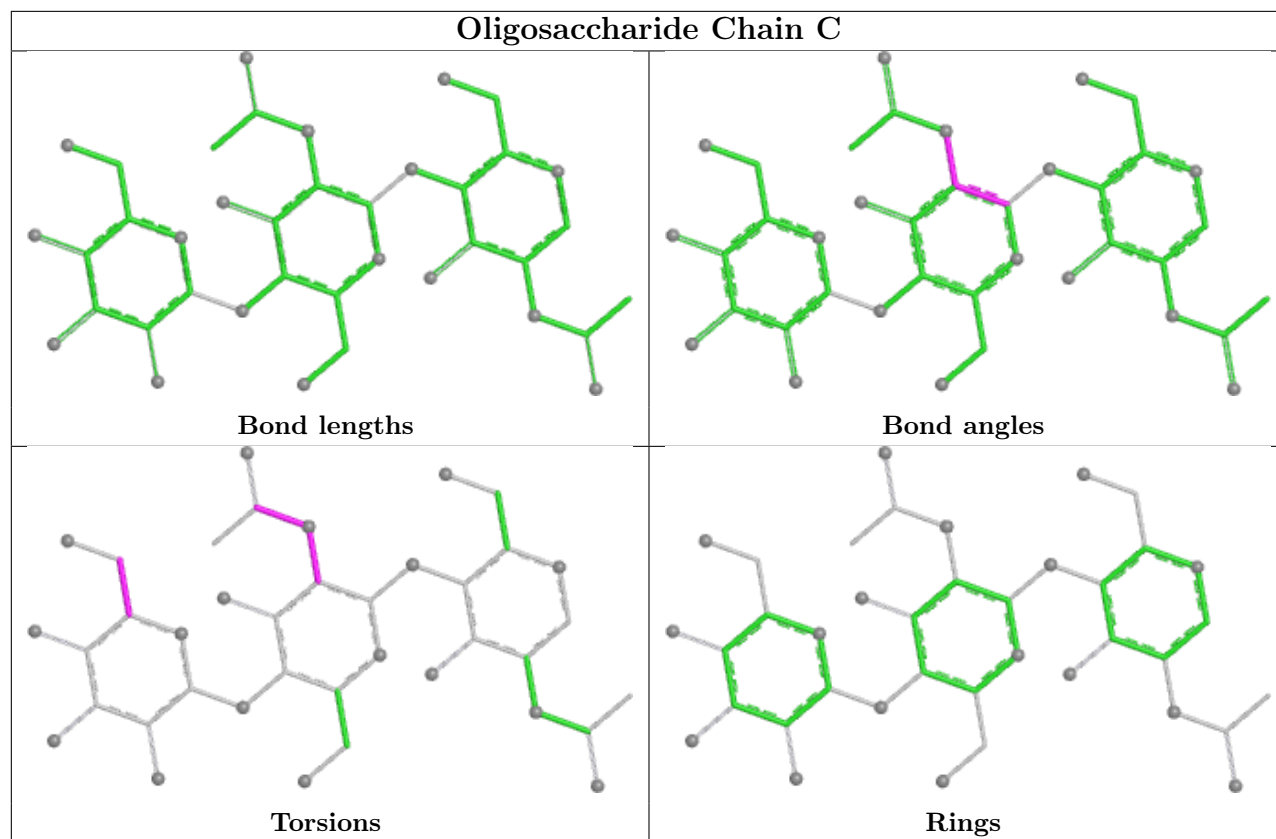
5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

Mogul was not executed - this section is therefore empty.

5.5 Carbohydrates [i](#)

Mogul was not executed - this section is therefore empty.

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

Mogul was not executed - this section is therefore empty.

5.7 Other polymers

Mogul was not executed - this section is therefore empty.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

EDS was not executed - this section is therefore empty.

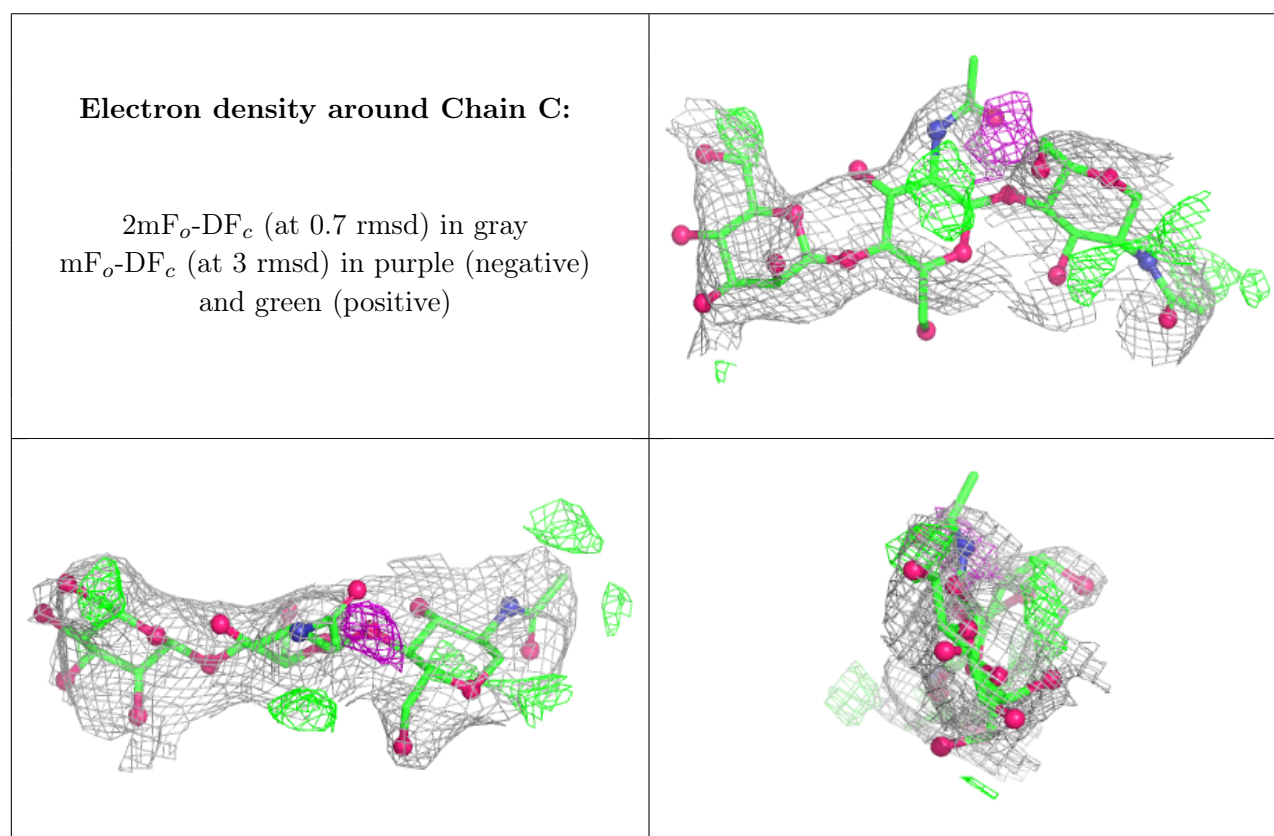
6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

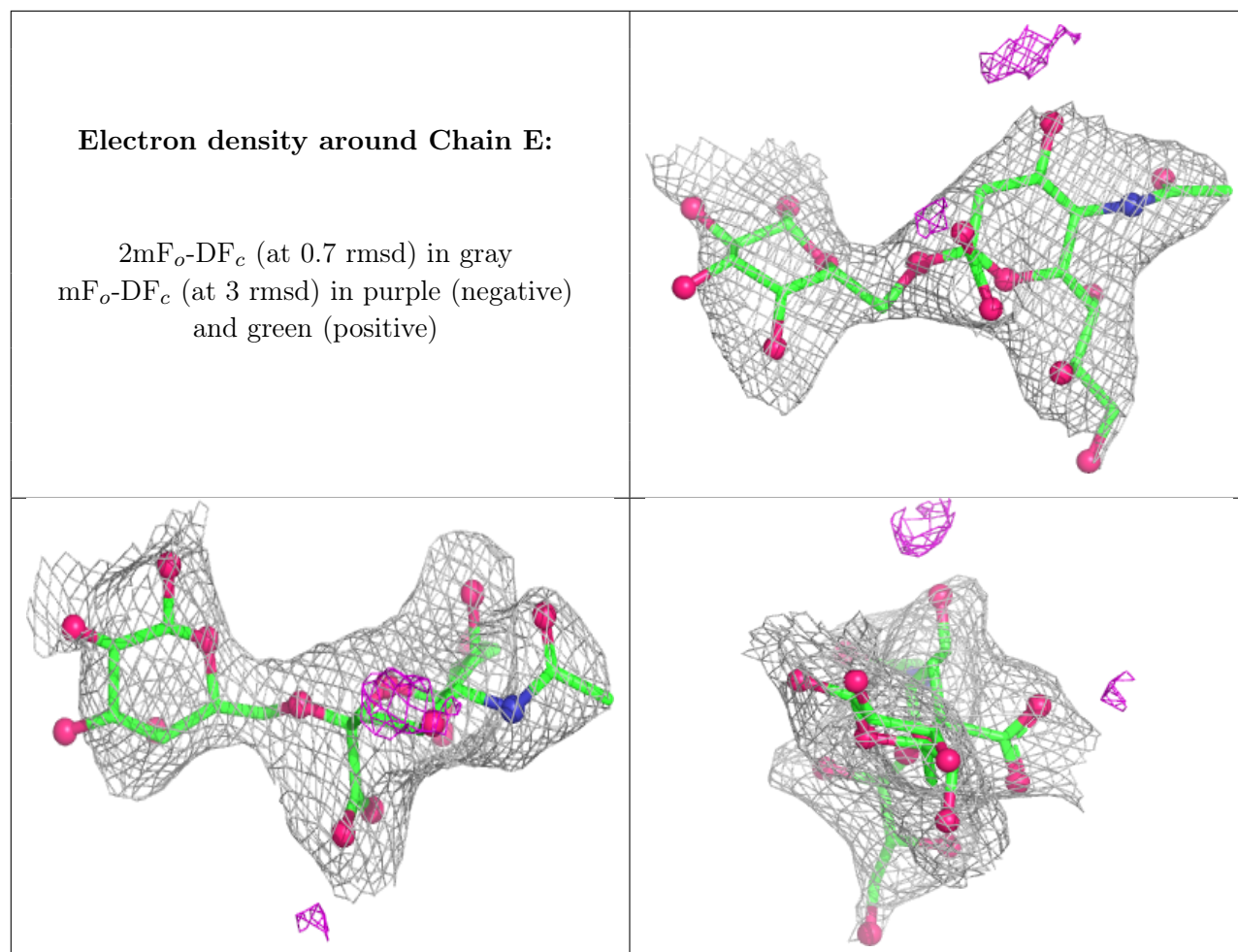
EDS was not executed - this section is therefore empty.

6.3 Carbohydrates [i](#)

EDS was not executed - this section is therefore empty.

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.





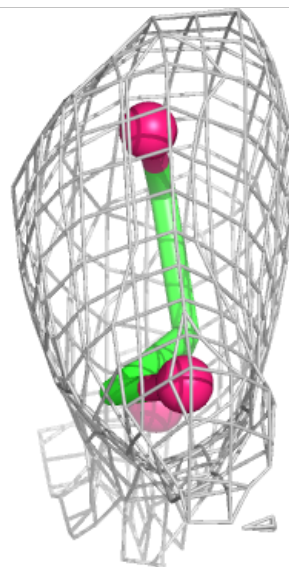
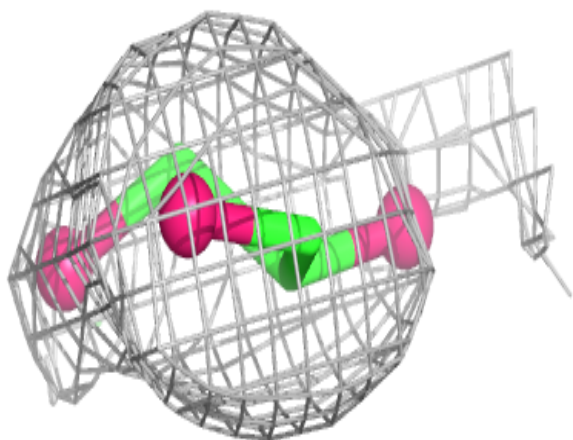
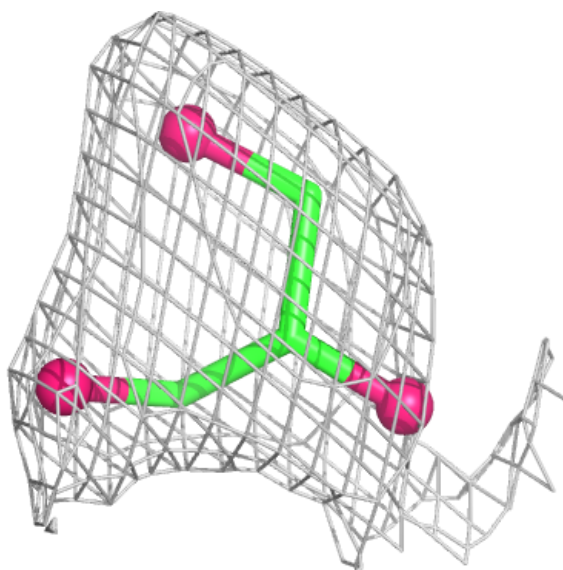
6.4 Ligands ⓘ

EDS was not executed - this section is therefore empty.

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

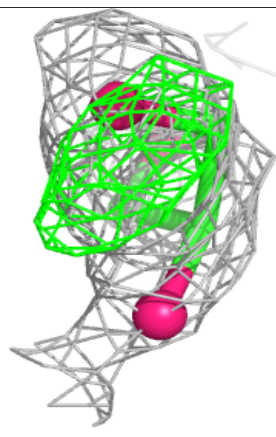
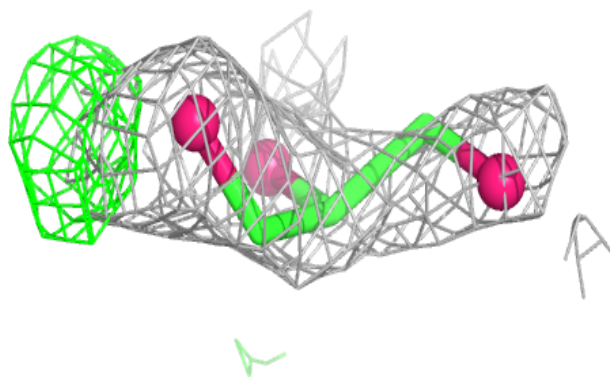
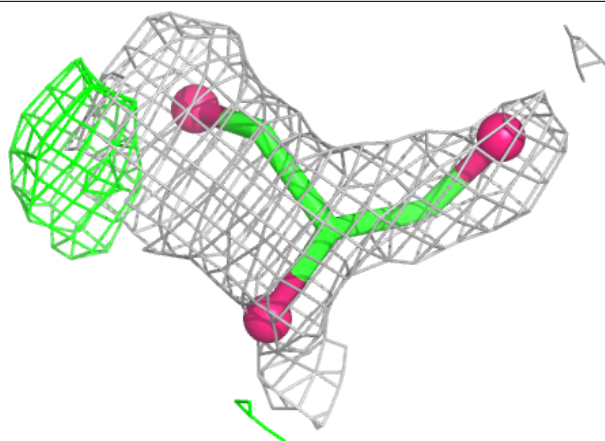
Electron density around GOL B 301:

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



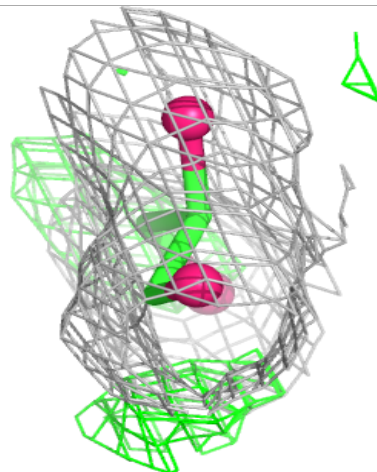
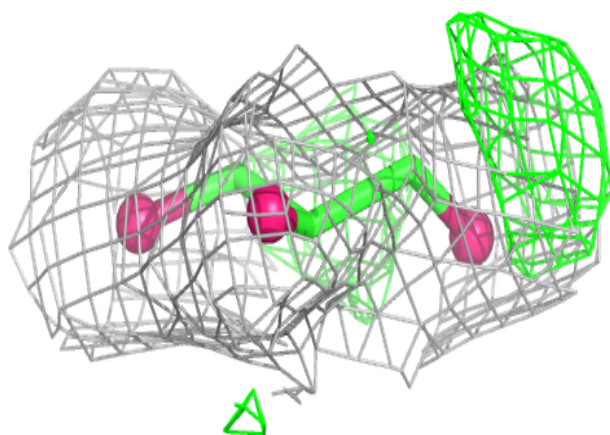
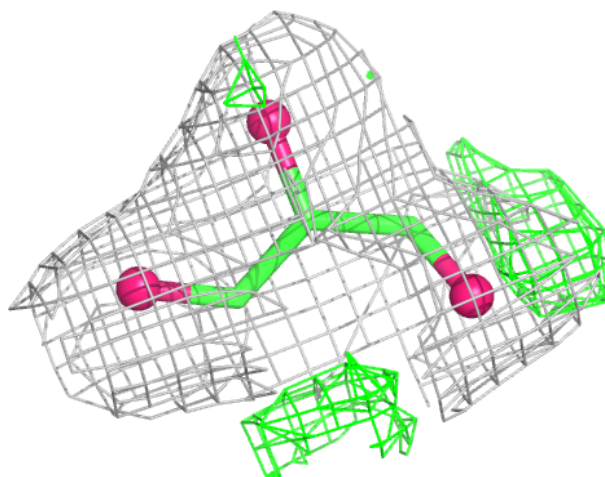
Electron density around GOL B 303:

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



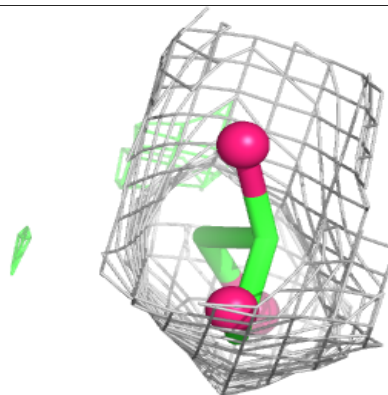
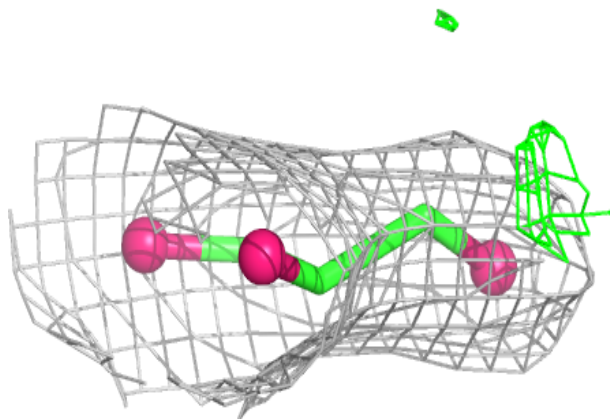
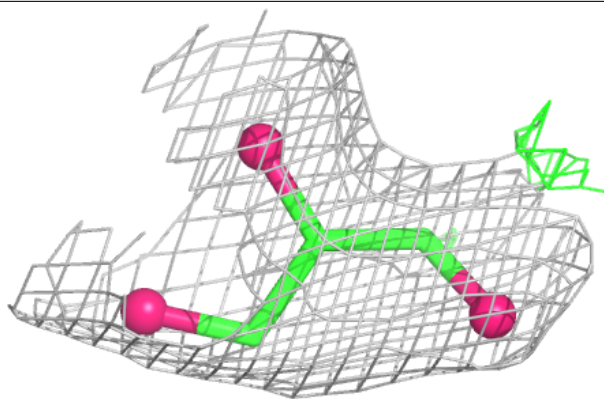
Electron density around GOL B 304:

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



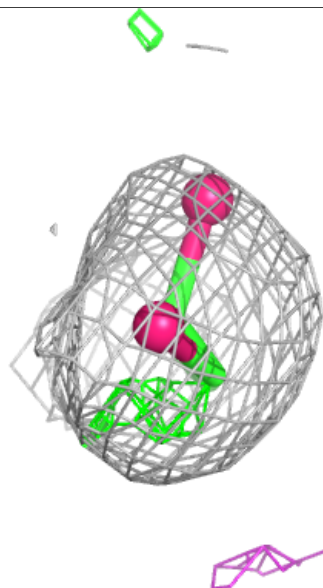
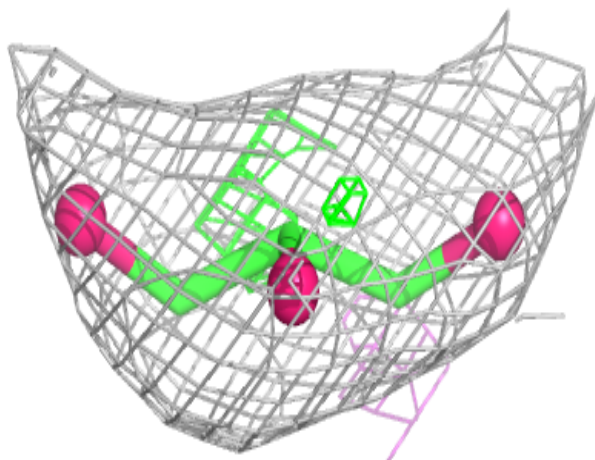
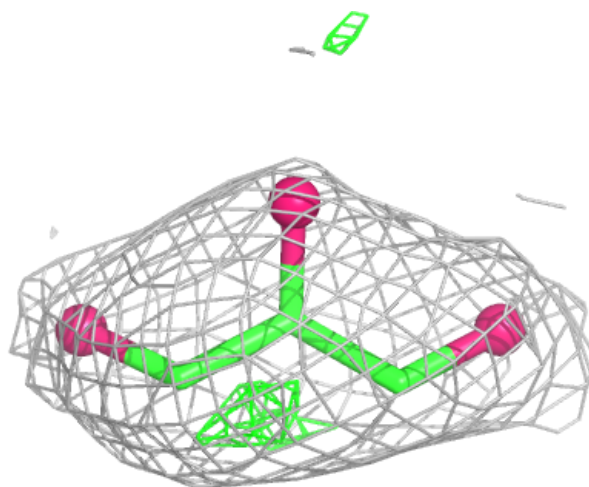
Electron density around GOL B 305:

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



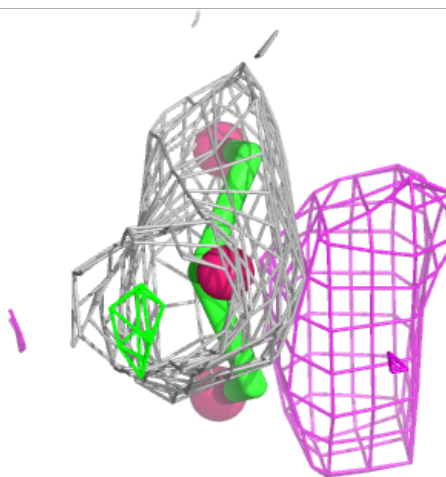
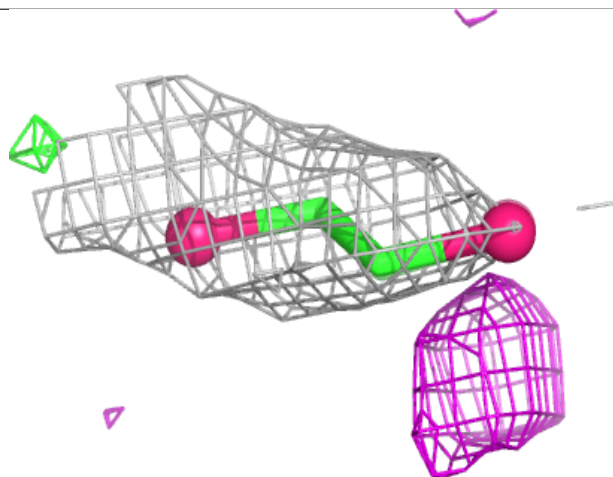
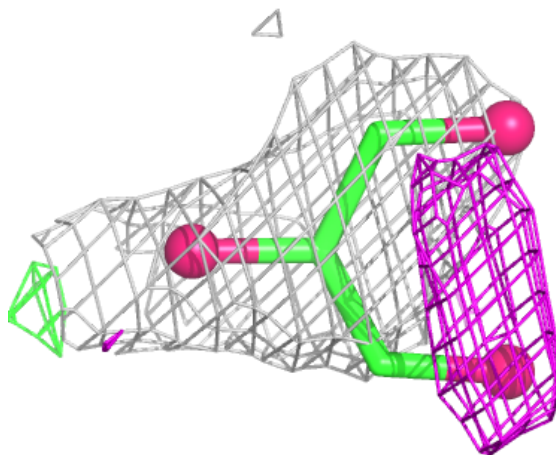
Electron density around GOL A 302:

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



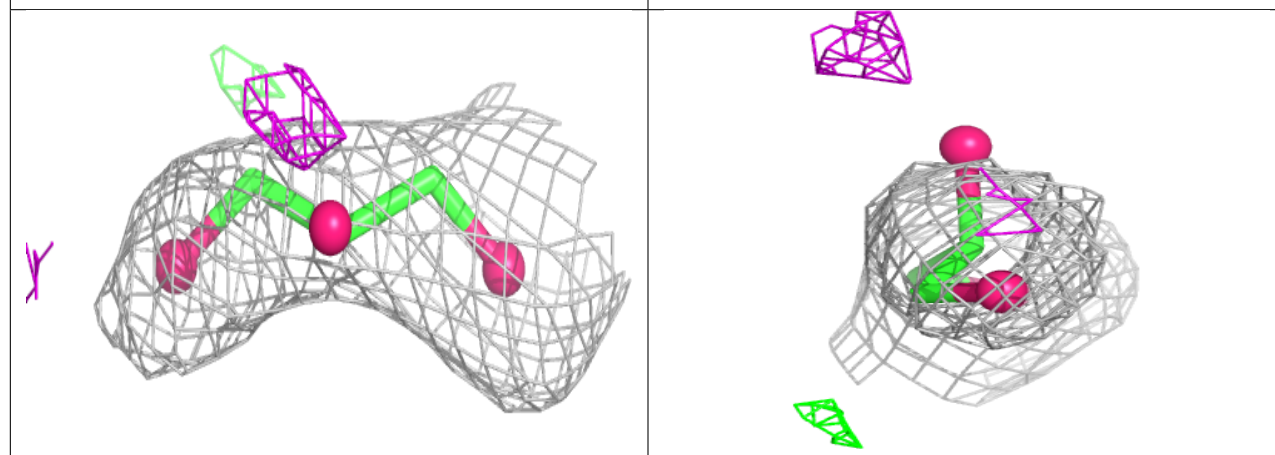
Electron density around GOL A 303:

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



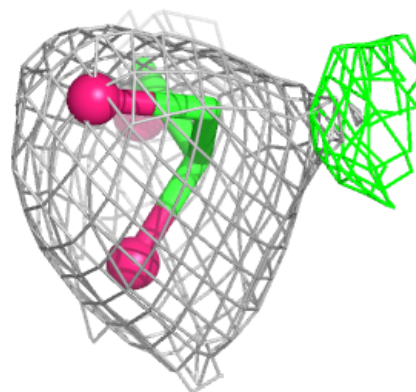
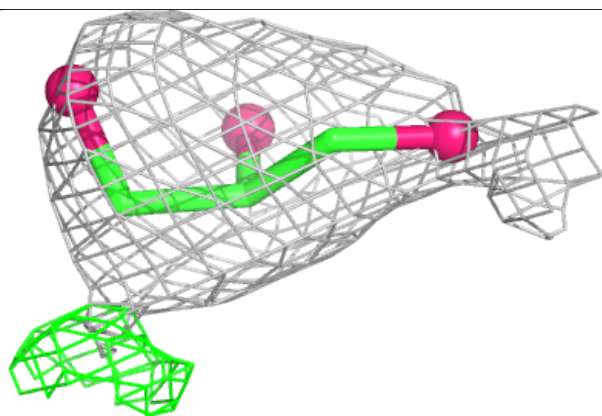
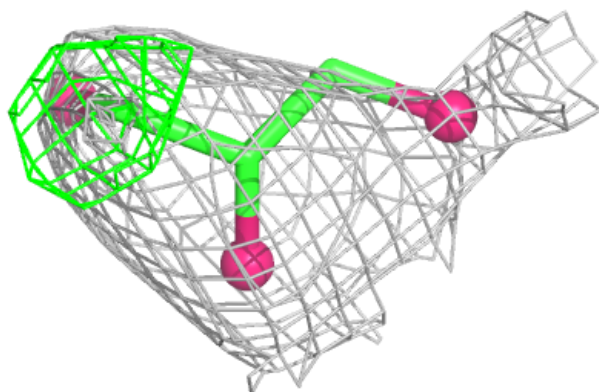
Electron density around GOL A 304:

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

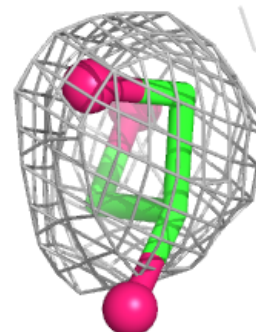
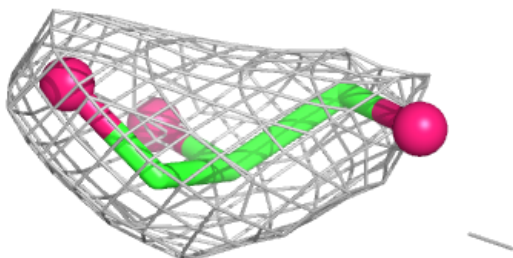
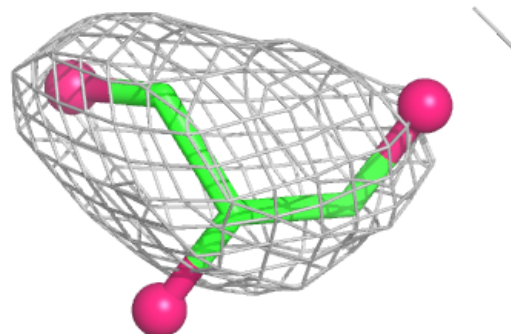


Electron density around GOL D 302:

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

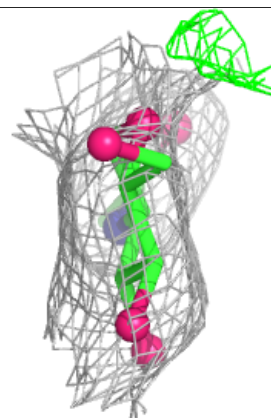
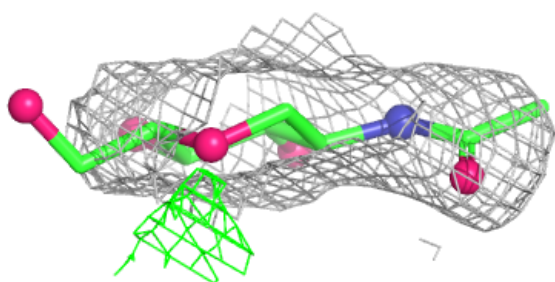
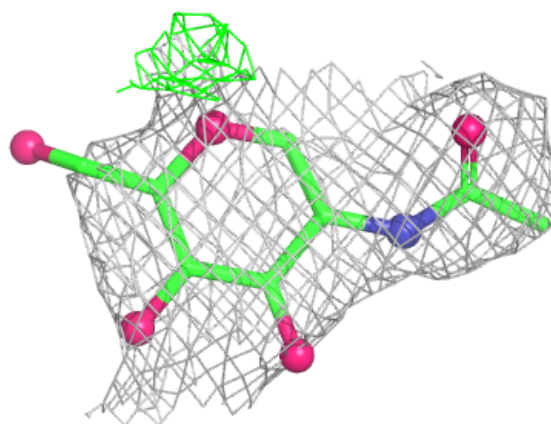
**Electron density around GOL D 303:**

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



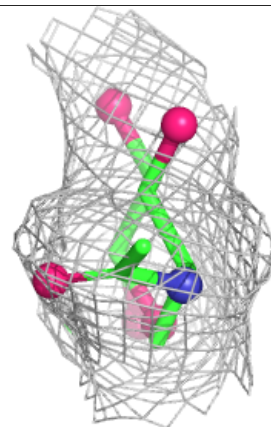
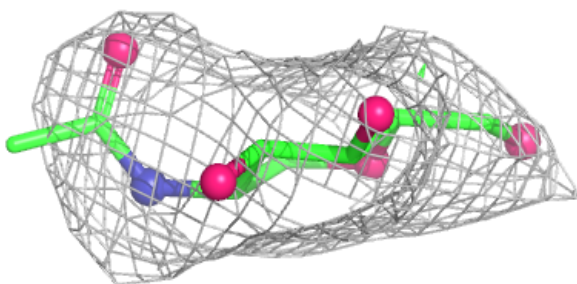
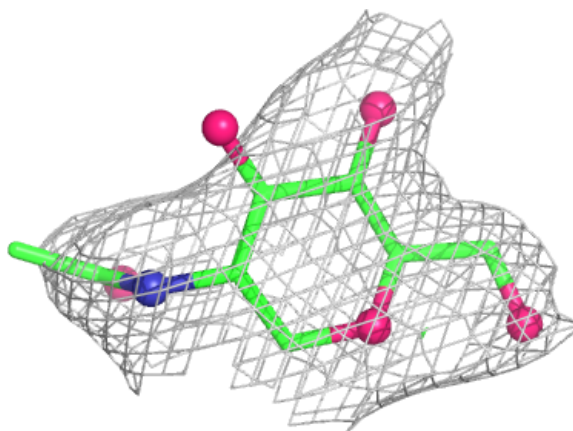
Electron density around NAG B 302:

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



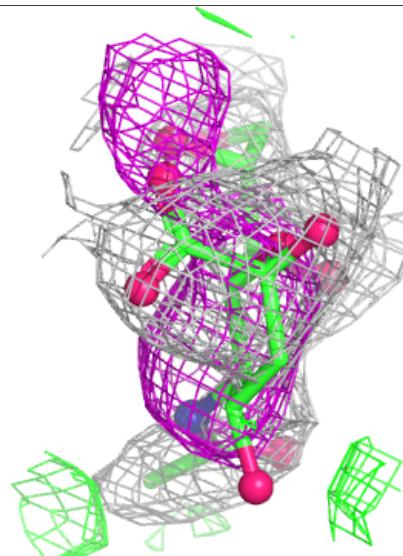
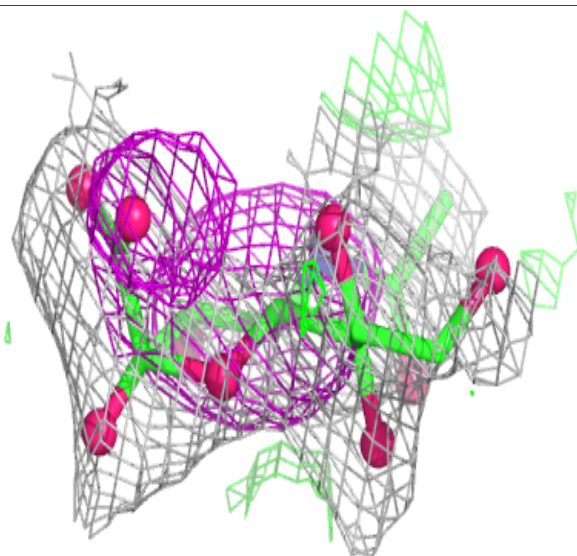
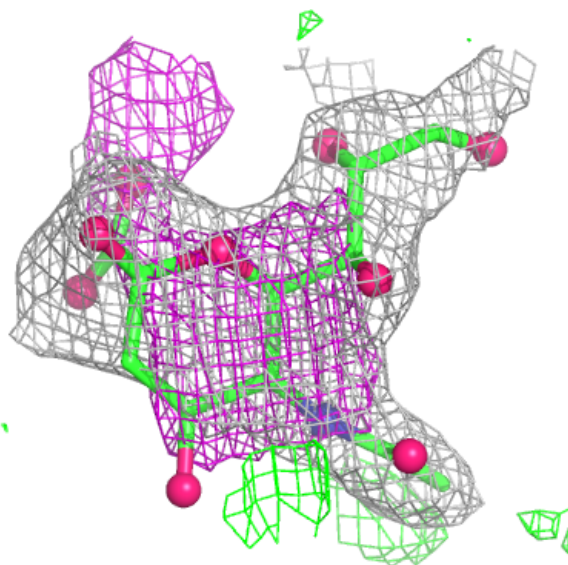
Electron density around NAG D 301:

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



Electron density around SIA A 301:

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



6.5 Other polymers [i](#)

EDS was not executed - this section is therefore empty.