



wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 22, 2023 – 05:52 PM JST

PDB ID : 7W62
Title : Mevo lectin complex with mannotetraose (Man4)
Authors : Sivaji, N.; Vijayan, M.
Deposited on : 2021-12-01
Resolution : 2.00 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
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

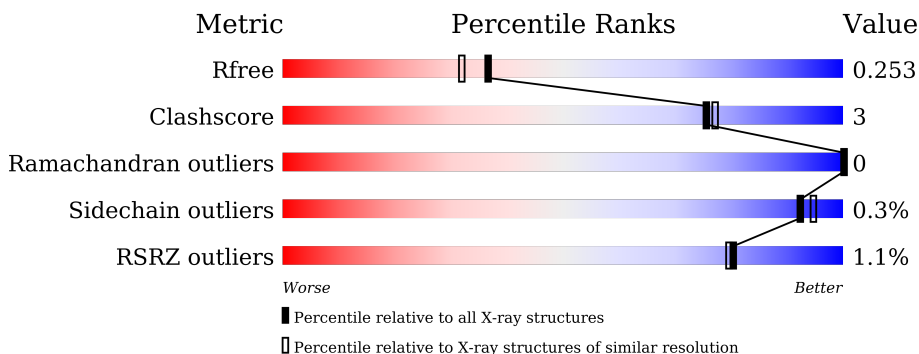
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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.



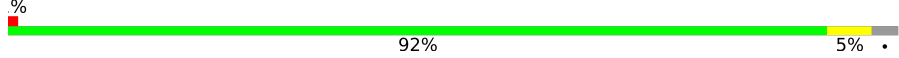
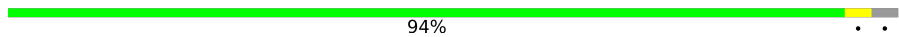
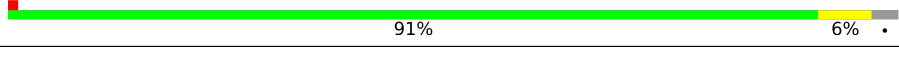
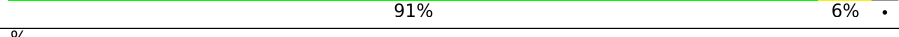
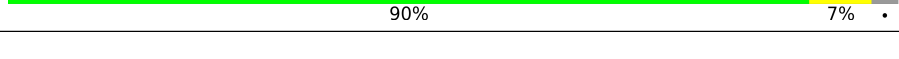
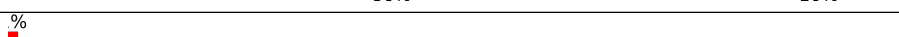
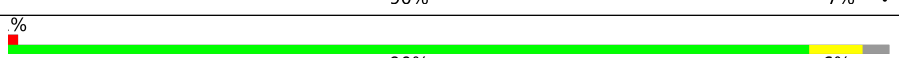

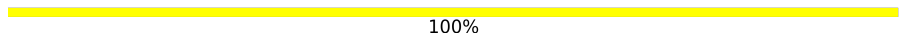
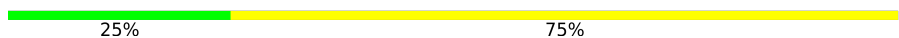


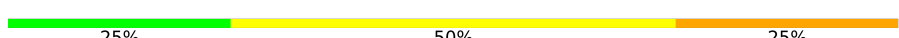
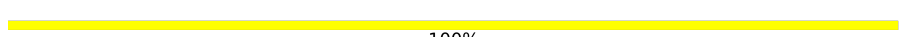



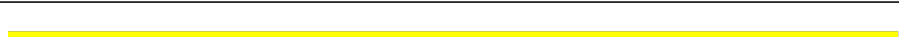
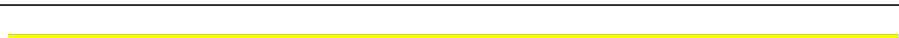


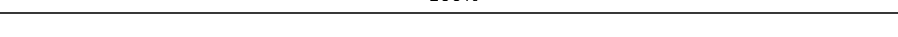
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	145	 % 93% 5% 2% . .
1	B	145	 % 90% 6% . .
1	C	145	 5% 91% 5% . .
1	D	145	 % 92% . . .
1	E	145	 % 90% 7% . .
1	F	145	 2% 93% . .

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Mol	Chain	Length	Quality of chain
1	G	145	 92% 5%
1	H	145	 94%
1	I	145	 91% 6%
1	J	145	 91% 6%
1	K	145	 90% 7%
1	L	145	 86% 10%
1	M	145	 90% 7%
1	N	145	 90% 6%
2	O	4	 75% 25%
2	P	4	 100%
2	Q	4	 25% 75%
2	S	4	 75% 25%
2	U	4	 50% 50%
2	V	4	 25% 50% 25%
2	W	4	 100%
2	X	4	 100%
2	Y	4	 100%
2	Z	4	 50% 50%
2	a	4	 100%
2	b	4	 100%
3	R	3	 100%
3	T	3	 100%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	MAN	O	4	-	-	-	X
2	MAN	U	1	-	-	-	X
2	MAN	V	1	-	-	-	X
2	MAN	Y	1	-	-	-	X
2	MAN	a	1	-	-	-	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 16060 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 lectin.

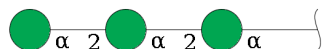
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	B	140	1067	680	174	210	3	0	0	0
1	G	140	1063	677	173	210	3	0	0	0
1	A	140	1063	677	173	210	3	0	0	0
1	D	140	1067	680	174	210	3	0	0	0
1	E	141	1068	680	174	211	3	0	0	0
1	F	140	1059	674	172	210	3	0	0	0
1	C	141	1068	680	174	211	3	0	0	0
1	H	140	1063	677	173	210	3	0	0	0
1	I	140	1063	677	173	210	3	0	0	0
1	J	140	1063	677	173	210	3	0	0	0
1	K	140	1066	679	174	210	3	0	0	0
1	L	140	1063	677	173	210	3	0	0	0
1	M	140	1063	677	173	210	3	0	0	0
1	N	140	1063	677	173	210	3	0	0	0

- Molecule 2 is an oligosaccharide called alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
2	O	4	Total	C	O	0	0	0
			45	24	21			
2	P	4	Total	C	O	0	0	0
			45	24	21			
2	Q	4	Total	C	O	0	0	0
			45	24	21			
2	S	4	Total	C	O	0	0	0
			45	24	21			
2	U	4	Total	C	O	0	0	0
			45	24	21			
2	V	4	Total	C	O	0	0	0
			45	24	21			
2	W	4	Total	C	O	0	0	0
			45	24	21			
2	X	4	Total	C	O	0	0	0
			45	24	21			
2	Y	4	Total	C	O	0	0	0
			45	24	21			
2	Z	4	Total	C	O	0	0	0
			45	24	21			
2	a	4	Total	C	O	0	0	0
			45	24	21			
2	b	4	Total	C	O	0	0	0
			45	24	21			

- Molecule 3 is an oligosaccharide called alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
3	R	3	Total	C	O	0	0	0
			34	18	16			
3	T	3	Total	C	O	0	0	0
			34	18	16			

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	D	1	Total C O 4 2 2	0	0
4	F	1	Total C O 4 2 2	0	0
4	C	1	Total C O 4 2 2	0	0
4	H	1	Total C O 4 2 2	0	0
4	K	1	Total C O 4 2 2	0	0
4	K	1	Total C O 4 2 2	0	0
4	M	1	Total C O 4 2 2	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	B	29	Total O 29 29	0	0
5	G	41	Total O 41 41	0	0
5	A	24	Total O 24 24	0	0
5	D	22	Total O 22 22	0	0
5	E	54	Total O 54 54	0	0

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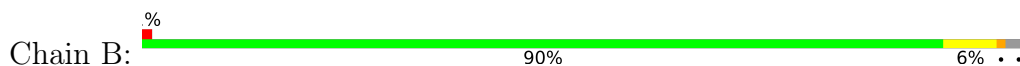
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	F	12	Total 12	O 12	0	0
5	C	45	Total 45	O 45	0	0
5	H	36	Total 36	O 36	0	0
5	I	39	Total 39	O 39	0	0
5	J	47	Total 47	O 47	0	0
5	K	38	Total 38	O 38	0	0
5	L	53	Total 53	O 53	0	0
5	M	40	Total 40	O 40	0	0
5	N	45	Total 45	O 45	0	0

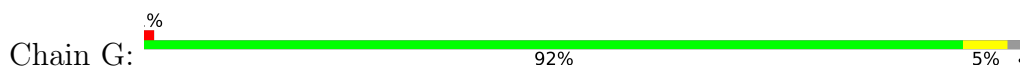
3 Residue-property plots [i](#)

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: lectin



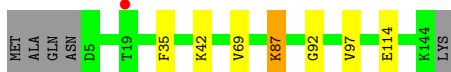
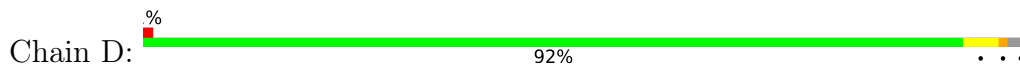
- Molecule 1: lectin



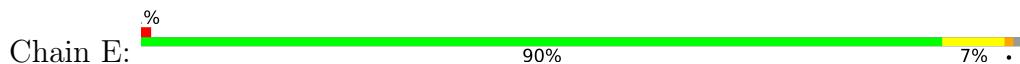
- Molecule 1: lectin



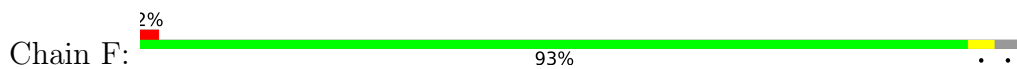
- Molecule 1: lectin



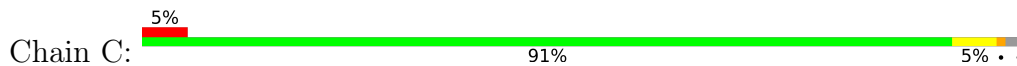
- Molecule 1: lectin



- Molecule 1: lectin



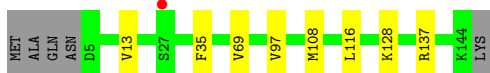
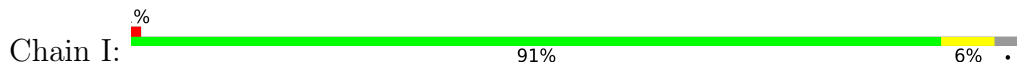
- Molecule 1: lectin



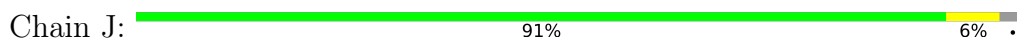
- Molecule 1: lectin



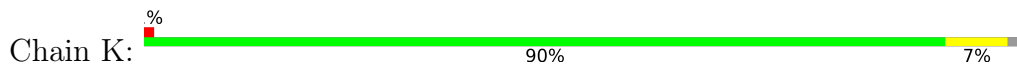
- Molecule 1: lectin



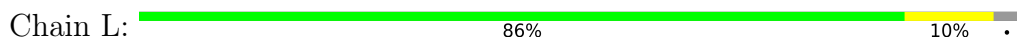
- Molecule 1: lectin



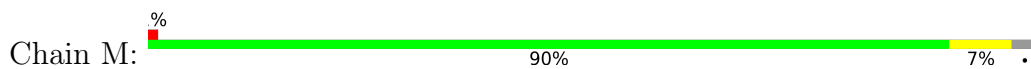
- Molecule 1: lectin



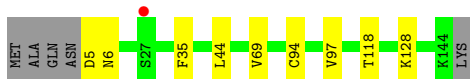
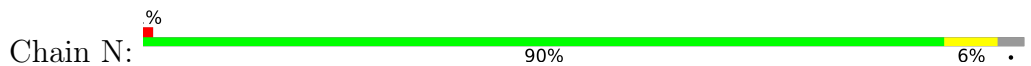
- Molecule 1: lectin



- Molecule 1: lectin



- Molecule 1: lectin



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose

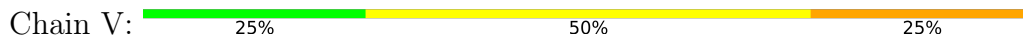


- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose





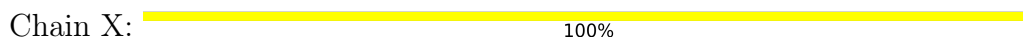
- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose



- Molecule 2: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose

Chain b:  100%


MAN1
MAN2
MAN3
MAN4

- Molecule 3: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose

Chain R:  100%

MAN1
MAN2
MAN3

- Molecule 3: alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose

Chain T:  100%

MAN1
MAN2
MAN3

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	96.21Å 168.30Å 170.25Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	85.27 – 2.00 85.12 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.9 (85.27-2.00) 99.9 (85.12-2.00)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.13 (at 2.00Å)	Xtrriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.226 , 0.250 0.231 , 0.253	Depositor DCC
R_{free} test set	9317 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	30.6	Xtrriage
Anisotropy	0.510	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 39.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.000 for -h,l,k	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	16060	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 39.19 % 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 3.2926e-04. 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: EDO, 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	0.70	0/1082	0.87	0/1459
1	B	0.67	0/1086	0.84	1/1463 (0.1%)
1	C	0.69	0/1087	0.86	0/1466
1	D	0.72	0/1086	0.83	0/1463
1	E	0.72	0/1087	0.89	2/1466 (0.1%)
1	F	0.63	0/1078	0.83	0/1455
1	G	0.69	0/1082	0.87	0/1459
1	H	0.68	0/1082	0.83	0/1459
1	I	0.67	0/1082	0.85	0/1459
1	J	0.69	0/1082	0.85	0/1459
1	K	0.73	0/1084	0.87	0/1460
1	L	0.72	0/1082	0.89	0/1459
1	M	0.67	0/1082	0.82	0/1459
1	N	0.69	0/1082	0.84	0/1459
All	All	0.69	0/15164	0.85	3/20445 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	93	ARG	NE-CZ-NH2	-5.29	117.66	120.30
1	B	134	ASP	CB-CA-C	-5.22	99.96	110.40
1	E	128	LYS	CA-CB-CG	5.16	124.75	113.40

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	1063	0	1045	4	0
1	B	1067	0	1056	6	0
1	C	1068	0	1047	11	0
1	D	1067	0	1056	5	0
1	E	1068	0	1047	8	0
1	F	1059	0	1034	4	0
1	G	1063	0	1045	5	0
1	H	1063	0	1045	3	0
1	I	1063	0	1045	6	0
1	J	1063	0	1045	6	0
1	K	1066	0	1047	11	0
1	L	1063	0	1045	13	0
1	M	1063	0	1045	7	0
1	N	1063	0	1045	6	0
2	O	45	0	37	1	0
2	P	45	0	35	0	0
2	Q	45	0	37	0	0
2	S	45	0	34	3	0
2	U	45	0	38	4	0
2	V	45	0	39	2	0
2	W	45	0	36	0	0
2	X	45	0	39	0	0
2	Y	45	0	38	0	0
2	Z	45	0	36	3	0
2	a	45	0	38	0	0
2	b	45	0	38	0	0
3	R	34	0	30	0	0
3	T	34	0	30	0	0
4	C	4	0	6	0	0
4	D	4	0	6	0	0
4	F	4	0	6	1	0
4	H	4	0	6	0	0
4	K	8	0	12	0	0
4	M	4	0	6	1	0
5	A	24	0	0	1	0
5	B	29	0	0	1	0
5	C	45	0	0	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	D	22	0	0	0	0
5	E	54	0	0	4	0
5	F	12	0	0	0	0
5	G	41	0	0	0	0
5	H	36	0	0	0	0
5	I	39	0	0	2	0
5	J	47	0	0	1	0
5	K	38	0	0	4	0
5	L	53	0	0	6	0
5	M	40	0	0	0	0
5	N	45	0	0	2	0
All	All	16060	0	15194	92	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 3.

The worst 5 of 92 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:K:42:LYS:CE	1:K:42:LYS:CG	2.08	1.31
1:C:128:LYS:HD3	5:C:441:HOH:O	1.58	1.00
1:C:52:ILE:HD11	5:C:427:HOH:O	1.60	0.98
1:L:128:LYS:HD3	5:L:214:HOH:O	1.77	0.84
1:N:128:LYS:HD3	5:N:234:HOH:O	1.76	0.84

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	138/145 (95%)	136 (99%)	2 (1%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	138/145 (95%)	134 (97%)	4 (3%)	0	100	100
1	C	139/145 (96%)	137 (99%)	2 (1%)	0	100	100
1	D	138/145 (95%)	135 (98%)	3 (2%)	0	100	100
1	E	139/145 (96%)	135 (97%)	4 (3%)	0	100	100
1	F	138/145 (95%)	136 (99%)	2 (1%)	0	100	100
1	G	138/145 (95%)	135 (98%)	3 (2%)	0	100	100
1	H	138/145 (95%)	134 (97%)	4 (3%)	0	100	100
1	I	138/145 (95%)	135 (98%)	3 (2%)	0	100	100
1	J	138/145 (95%)	135 (98%)	3 (2%)	0	100	100
1	K	138/145 (95%)	134 (97%)	4 (3%)	0	100	100
1	L	138/145 (95%)	135 (98%)	3 (2%)	0	100	100
1	M	138/145 (95%)	135 (98%)	3 (2%)	0	100	100
1	N	138/145 (95%)	136 (99%)	2 (1%)	0	100	100
All	All	1934/2030 (95%)	1892 (98%)	42 (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	113/119 (95%)	113 (100%)	0	100	100
1	B	114/119 (96%)	114 (100%)	0	100	100
1	C	113/119 (95%)	111 (98%)	2 (2%)	59	63
1	D	114/119 (96%)	113 (99%)	1 (1%)	78	83
1	E	113/119 (95%)	113 (100%)	0	100	100
1	F	112/119 (94%)	112 (100%)	0	100	100
1	G	113/119 (95%)	113 (100%)	0	100	100
1	H	113/119 (95%)	113 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	I	113/119 (95%)	113 (100%)	0	100	100
1	J	113/119 (95%)	113 (100%)	0	100	100
1	K	113/119 (95%)	113 (100%)	0	100	100
1	L	113/119 (95%)	113 (100%)	0	100	100
1	M	113/119 (95%)	113 (100%)	0	100	100
1	N	113/119 (95%)	112 (99%)	1 (1%)	78	83
All	All	1583/1666 (95%)	1579 (100%)	4 (0%)	92	95

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	87	LYS
1	C	24	MET
1	C	144	LYS
1	N	6	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	N	25	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](#)

54 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	MAN	O	1	2	12,12,12	1.69	2 (16%)	17,17,17	1.63	4 (23%)
2	MAN	O	2	2	11,11,12	2.09	4 (36%)	15,15,17	1.39	1 (6%)
2	MAN	O	3	2	11,11,12	1.69	3 (27%)	15,15,17	1.27	1 (6%)
2	MAN	O	4	2	11,11,12	1.86	3 (27%)	15,15,17	2.25	7 (46%)
2	MAN	P	1	2	12,12,12	2.29	5 (41%)	17,17,17	1.64	4 (23%)
2	MAN	P	2	2	11,11,12	1.36	2 (18%)	15,15,17	1.10	1 (6%)
2	MAN	P	3	2	11,11,12	2.36	4 (36%)	15,15,17	1.75	1 (6%)
2	MAN	P	4	2	11,11,12	1.82	4 (36%)	15,15,17	1.04	1 (6%)
2	MAN	Q	1	2	12,12,12	1.18	1 (8%)	17,17,17	1.40	3 (17%)
2	MAN	Q	2	2	11,11,12	0.90	0	15,15,17	0.79	0
2	MAN	Q	3	2	11,11,12	1.42	2 (18%)	15,15,17	1.62	2 (13%)
2	MAN	Q	4	2	11,11,12	1.99	4 (36%)	15,15,17	1.27	2 (13%)
3	MAN	R	1	3	12,12,12	1.89	3 (25%)	17,17,17	1.91	6 (35%)
3	MAN	R	2	3	11,11,12	1.35	2 (18%)	15,15,17	1.46	2 (13%)
3	MAN	R	3	3	11,11,12	1.88	3 (27%)	15,15,17	1.17	0
2	MAN	S	1	2	12,12,12	1.86	3 (25%)	17,17,17	1.13	2 (11%)
2	MAN	S	2	2	11,11,12	2.01	3 (27%)	15,15,17	2.07	4 (26%)
2	MAN	S	3	2	11,11,12	1.42	3 (27%)	15,15,17	1.30	2 (13%)
2	MAN	S	4	2	11,11,12	1.81	3 (27%)	15,15,17	1.68	5 (33%)
3	MAN	T	1	3	12,12,12	1.04	0	17,17,17	0.99	1 (5%)
3	MAN	T	2	3	11,11,12	1.58	2 (18%)	15,15,17	1.66	3 (20%)
3	MAN	T	3	3	11,11,12	1.21	1 (9%)	15,15,17	0.90	1 (6%)
2	MAN	U	1	2	12,12,12	1.91	3 (25%)	17,17,17	1.54	3 (17%)
2	MAN	U	2	2	11,11,12	1.76	2 (18%)	15,15,17	1.63	3 (20%)
2	MAN	U	3	2	11,11,12	1.57	2 (18%)	15,15,17	0.90	0
2	MAN	U	4	2	11,11,12	1.79	4 (36%)	15,15,17	0.90	0
2	MAN	V	1	2	12,12,12	1.48	2 (16%)	17,17,17	2.19	6 (35%)
2	MAN	V	2	2	11,11,12	2.42	4 (36%)	15,15,17	1.61	3 (20%)
2	MAN	V	3	2	11,11,12	1.26	0	15,15,17	0.78	0
2	MAN	V	4	2	11,11,12	1.72	3 (27%)	15,15,17	1.48	4 (26%)
2	MAN	W	1	2	12,12,12	1.89	6 (50%)	17,17,17	1.26	2 (11%)
2	MAN	W	2	2	11,11,12	1.58	2 (18%)	15,15,17	1.35	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	MAN	W	3	2	11,11,12	1.82	3 (27%)	15,15,17	1.11	1 (6%)
2	MAN	W	4	2	11,11,12	1.80	3 (27%)	15,15,17	1.25	2 (13%)
2	MAN	X	1	2	12,12,12	1.33	2 (16%)	17,17,17	1.48	4 (23%)
2	MAN	X	2	2	11,11,12	1.42	3 (27%)	15,15,17	1.62	2 (13%)
2	MAN	X	3	2	11,11,12	1.67	3 (27%)	15,15,17	1.58	2 (13%)
2	MAN	X	4	2	11,11,12	1.45	2 (18%)	15,15,17	1.33	2 (13%)
2	MAN	Y	1	2	12,12,12	1.28	1 (8%)	17,17,17	1.56	3 (17%)
2	MAN	Y	2	2	11,11,12	1.78	3 (27%)	15,15,17	1.78	2 (13%)
2	MAN	Y	3	2	11,11,12	1.42	1 (9%)	15,15,17	1.33	2 (13%)
2	MAN	Y	4	2	11,11,12	1.88	4 (36%)	15,15,17	1.35	2 (13%)
2	MAN	Z	1	2	12,12,12	1.21	2 (16%)	17,17,17	0.98	0
2	MAN	Z	2	2	11,11,12	1.74	2 (18%)	15,15,17	1.57	2 (13%)
2	MAN	Z	3	2	11,11,12	1.82	3 (27%)	15,15,17	1.39	2 (13%)
2	MAN	Z	4	2	11,11,12	1.74	3 (27%)	15,15,17	1.55	2 (13%)
2	MAN	a	1	2	12,12,12	1.21	1 (8%)	17,17,17	1.34	3 (17%)
2	MAN	a	2	2	11,11,12	1.44	2 (18%)	15,15,17	1.14	2 (13%)
2	MAN	a	3	2	11,11,12	1.57	4 (36%)	15,15,17	1.82	2 (13%)
2	MAN	a	4	2	11,11,12	1.34	1 (9%)	15,15,17	1.56	1 (6%)
2	MAN	b	1	2	12,12,12	1.04	0	17,17,17	1.39	3 (17%)
2	MAN	b	2	2	11,11,12	1.92	4 (36%)	15,15,17	1.87	6 (40%)
2	MAN	b	3	2	11,11,12	1.89	4 (36%)	15,15,17	1.16	2 (13%)
2	MAN	b	4	2	11,11,12	1.58	4 (36%)	15,15,17	0.90	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	MAN	O	1	2	-	0/2/22/22	0/1/1/1
2	MAN	O	2	2	-	2/2/19/22	0/1/1/1
2	MAN	O	3	2	-	0/2/19/22	0/1/1/1
2	MAN	O	4	2	-	0/2/19/22	0/1/1/1
2	MAN	P	1	2	-	0/2/22/22	0/1/1/1
2	MAN	P	2	2	-	0/2/19/22	0/1/1/1
2	MAN	P	3	2	-	2/2/19/22	0/1/1/1
2	MAN	P	4	2	-	0/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MAN	Q	1	2	-	1/2/22/22	0/1/1/1
2	MAN	Q	2	2	-	0/2/19/22	0/1/1/1
2	MAN	Q	3	2	-	2/2/19/22	0/1/1/1
2	MAN	Q	4	2	-	0/2/19/22	0/1/1/1
3	MAN	R	1	3	-	0/2/22/22	0/1/1/1
3	MAN	R	2	3	-	2/2/19/22	0/1/1/1
3	MAN	R	3	3	-	0/2/19/22	0/1/1/1
2	MAN	S	1	2	-	0/2/22/22	0/1/1/1
2	MAN	S	2	2	-	2/2/19/22	0/1/1/1
2	MAN	S	3	2	-	0/2/19/22	0/1/1/1
2	MAN	S	4	2	-	2/2/19/22	0/1/1/1
3	MAN	T	1	3	-	0/2/22/22	0/1/1/1
3	MAN	T	2	3	-	2/2/19/22	0/1/1/1
3	MAN	T	3	3	-	0/2/19/22	0/1/1/1
2	MAN	U	1	2	-	2/2/22/22	0/1/1/1
2	MAN	U	2	2	-	0/2/19/22	0/1/1/1
2	MAN	U	3	2	-	0/2/19/22	0/1/1/1
2	MAN	U	4	2	-	0/2/19/22	0/1/1/1
2	MAN	V	1	2	-	0/2/22/22	0/1/1/1
2	MAN	V	2	2	-	0/2/19/22	0/1/1/1
2	MAN	V	3	2	-	0/2/19/22	0/1/1/1
2	MAN	V	4	2	-	0/2/19/22	0/1/1/1
2	MAN	W	1	2	-	2/2/22/22	0/1/1/1
2	MAN	W	2	2	-	0/2/19/22	0/1/1/1
2	MAN	W	3	2	-	0/2/19/22	0/1/1/1
2	MAN	W	4	2	-	0/2/19/22	0/1/1/1
2	MAN	X	1	2	-	2/2/22/22	0/1/1/1
2	MAN	X	2	2	-	0/2/19/22	0/1/1/1
2	MAN	X	3	2	-	2/2/19/22	0/1/1/1
2	MAN	X	4	2	-	0/2/19/22	0/1/1/1
2	MAN	Y	1	2	-	2/2/22/22	0/1/1/1
2	MAN	Y	2	2	-	0/2/19/22	0/1/1/1
2	MAN	Y	3	2	-	1/2/19/22	0/1/1/1
2	MAN	Y	4	2	-	0/2/19/22	0/1/1/1
2	MAN	Z	1	2	-	0/2/22/22	0/1/1/1
2	MAN	Z	2	2	-	0/2/19/22	0/1/1/1
2	MAN	Z	3	2	-	0/2/19/22	0/1/1/1
2	MAN	Z	4	2	-	2/2/19/22	0/1/1/1
2	MAN	a	1	2	-	2/2/22/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MAN	a	2	2	-	0/2/19/22	0/1/1/1
2	MAN	a	3	2	-	2/2/19/22	0/1/1/1
2	MAN	a	4	2	-	0/2/19/22	0/1/1/1
2	MAN	b	1	2	-	1/2/22/22	0/1/1/1
2	MAN	b	2	2	-	0/2/19/22	0/1/1/1
2	MAN	b	3	2	-	0/2/19/22	0/1/1/1
2	MAN	b	4	2	-	0/2/19/22	0/1/1/1

The worst 5 of 140 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	P	3	MAN	O5-C1	-5.17	1.35	1.43
2	U	1	MAN	O4-C4	-5.01	1.31	1.43
2	V	2	MAN	C2-C3	4.88	1.59	1.52
2	V	2	MAN	O5-C1	4.76	1.51	1.43
2	O	1	MAN	O3-C3	-4.27	1.32	1.43

The worst 5 of 123 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	V	1	MAN	C3-C4-C5	-6.32	98.96	110.24
2	a	3	MAN	O5-C5-C6	5.26	115.45	107.20
2	S	2	MAN	C1-O5-C5	-5.05	105.36	112.19
2	P	3	MAN	O5-C5-C6	4.84	114.80	107.20
2	Y	2	MAN	C1-O5-C5	4.63	118.47	112.19

There are no chirality outliers.

5 of 33 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	Y	1	MAN	C4-C5-C6-O6
2	S	4	MAN	C4-C5-C6-O6
2	Q	3	MAN	O5-C5-C6-O6
2	W	1	MAN	O5-C5-C6-O6
2	O	2	MAN	O5-C5-C6-O6

There are no ring outliers.

7 monomers are involved in 13 short contacts:

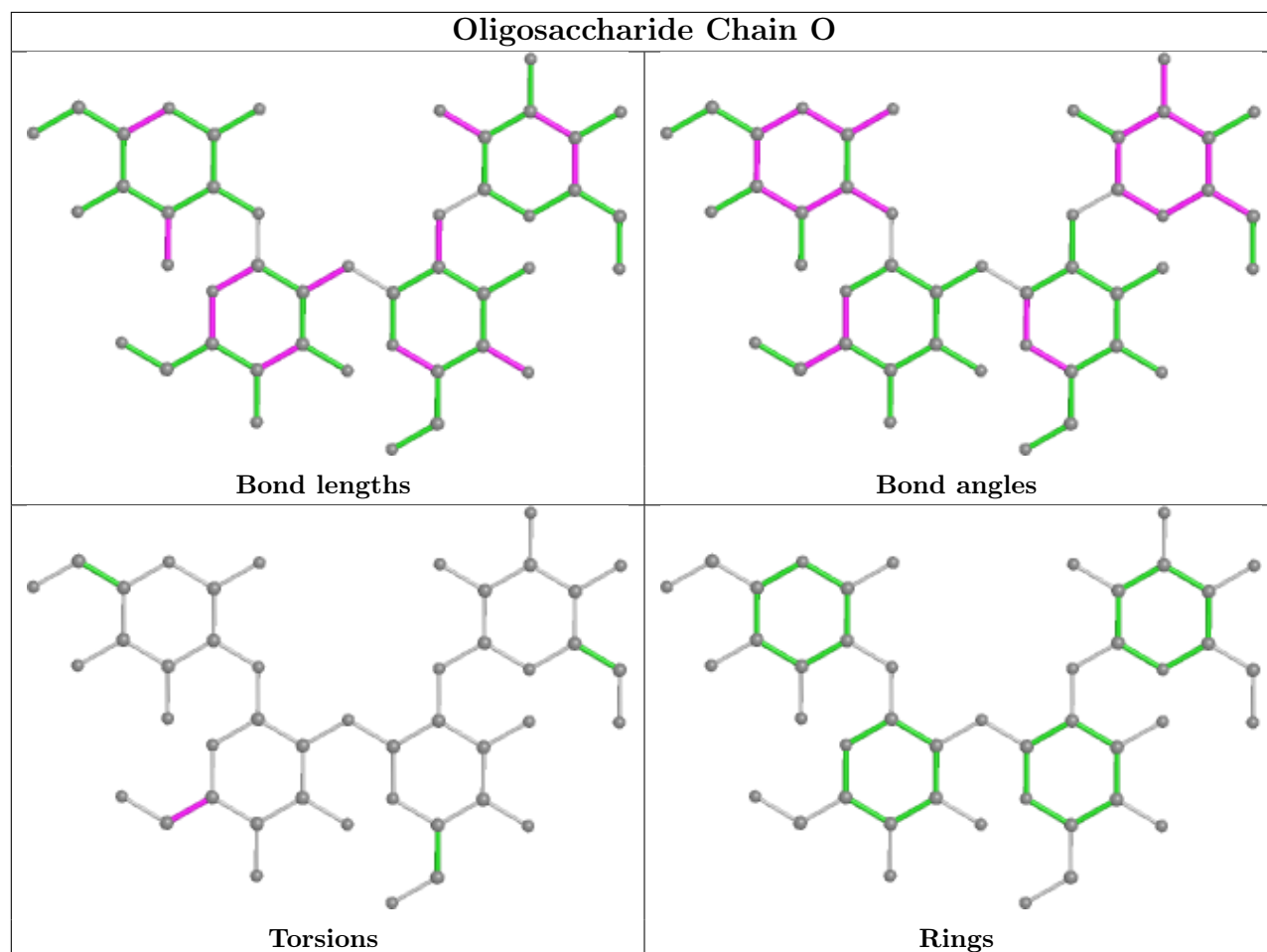
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	U	3	MAN	4	0

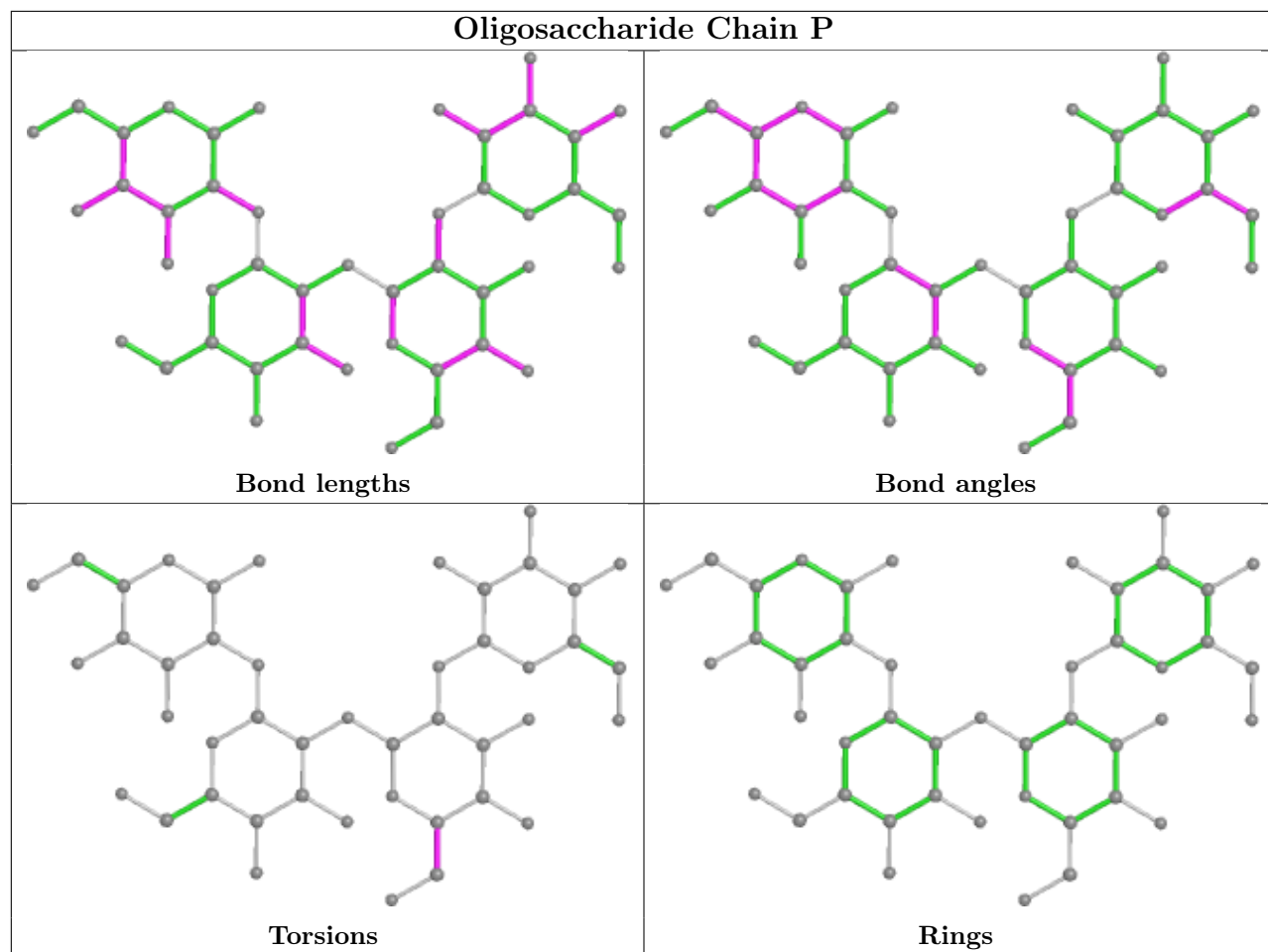
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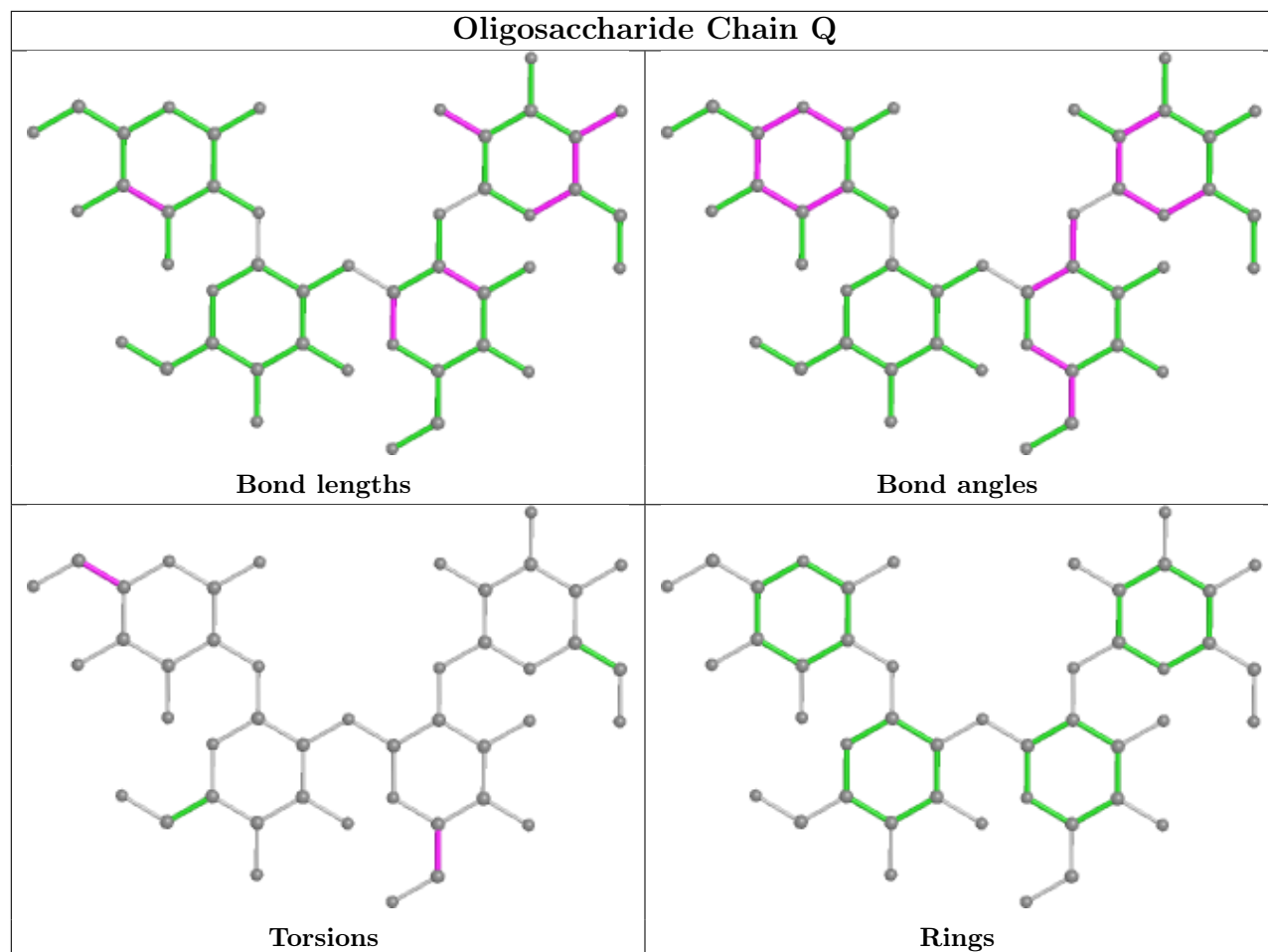
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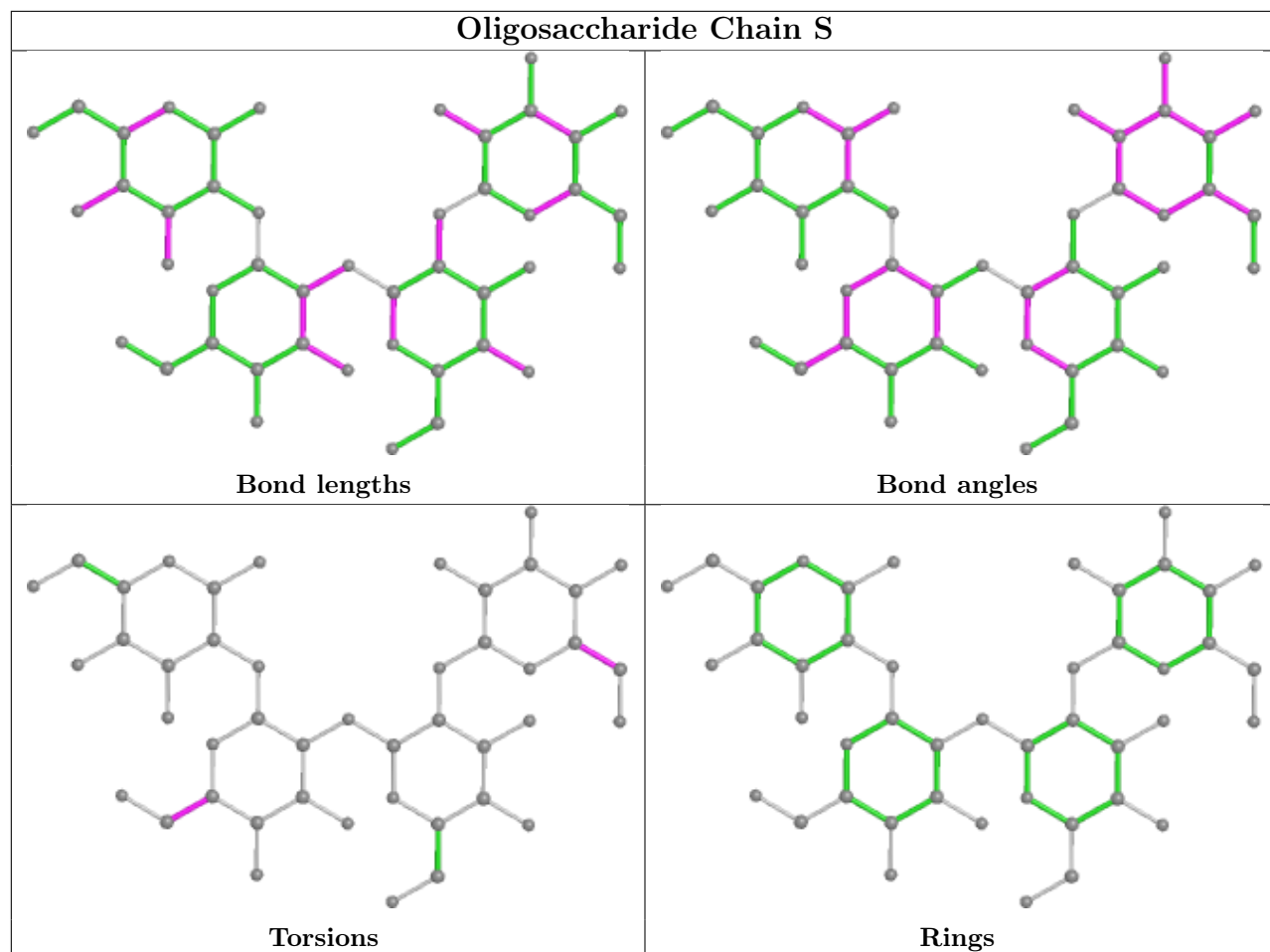
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	Z	3	MAN	3	0
2	S	4	MAN	3	0
2	Z	4	MAN	3	0
2	O	4	MAN	1	0
2	U	2	MAN	4	0
2	V	1	MAN	2	0

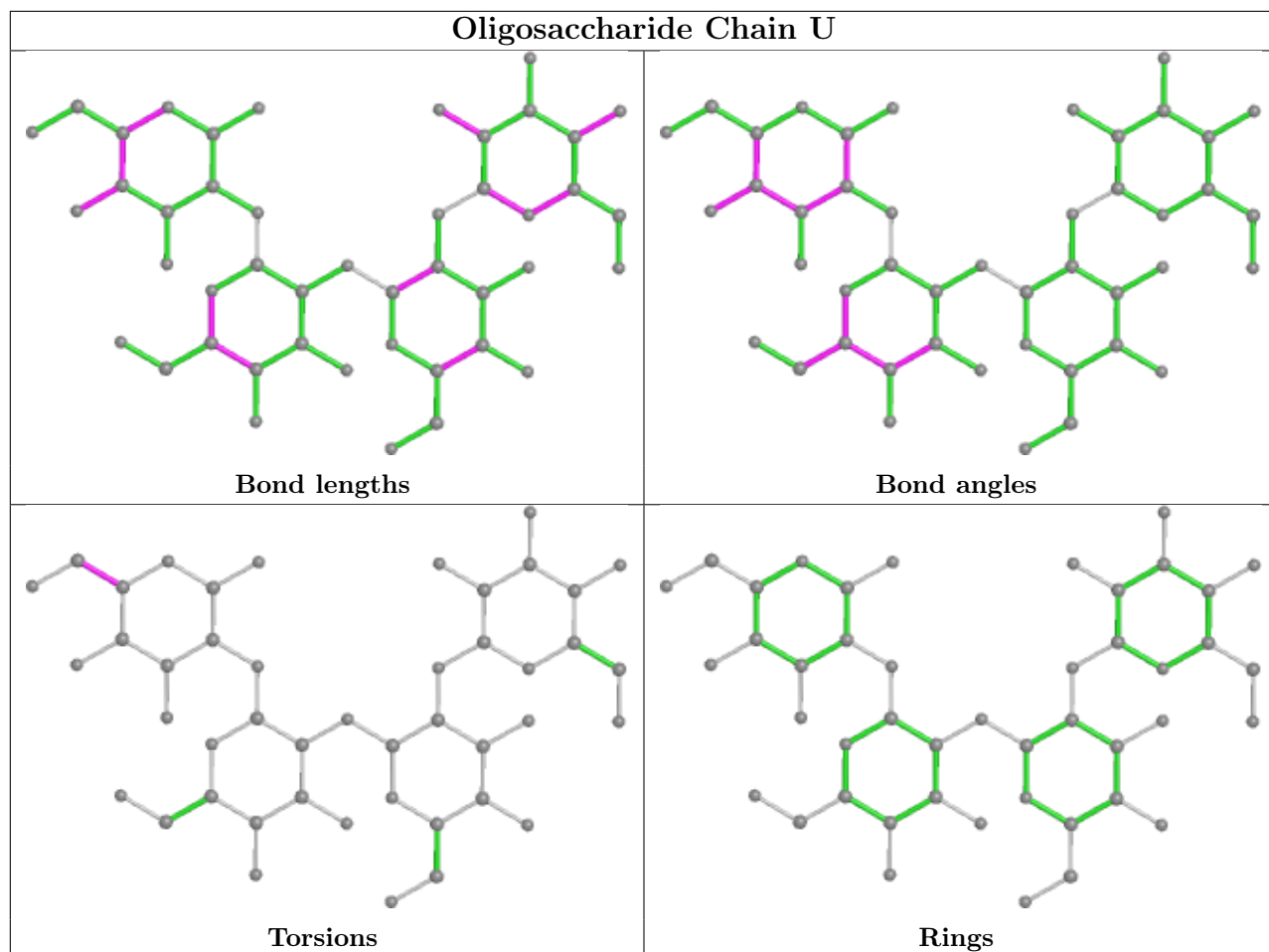
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

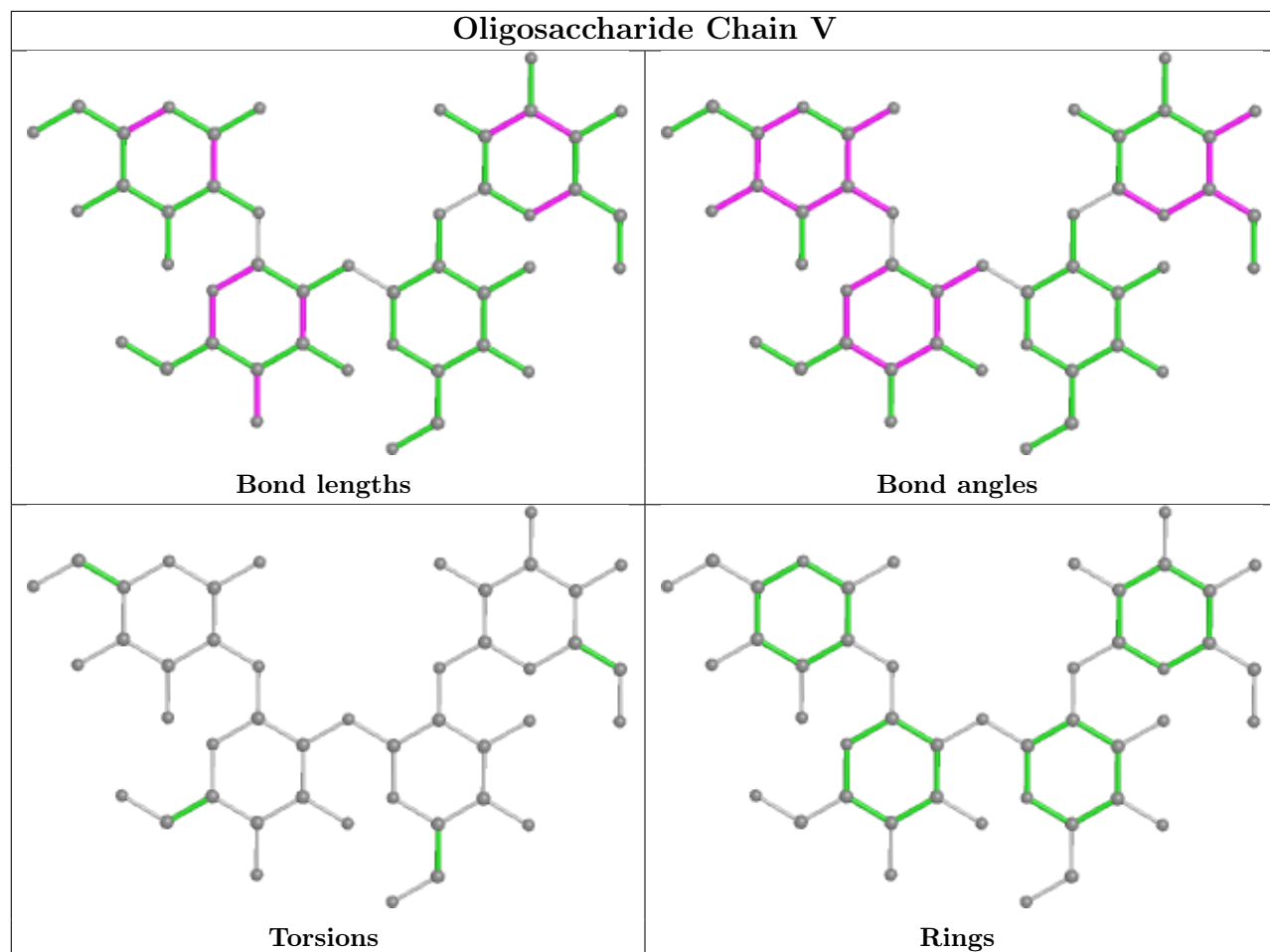


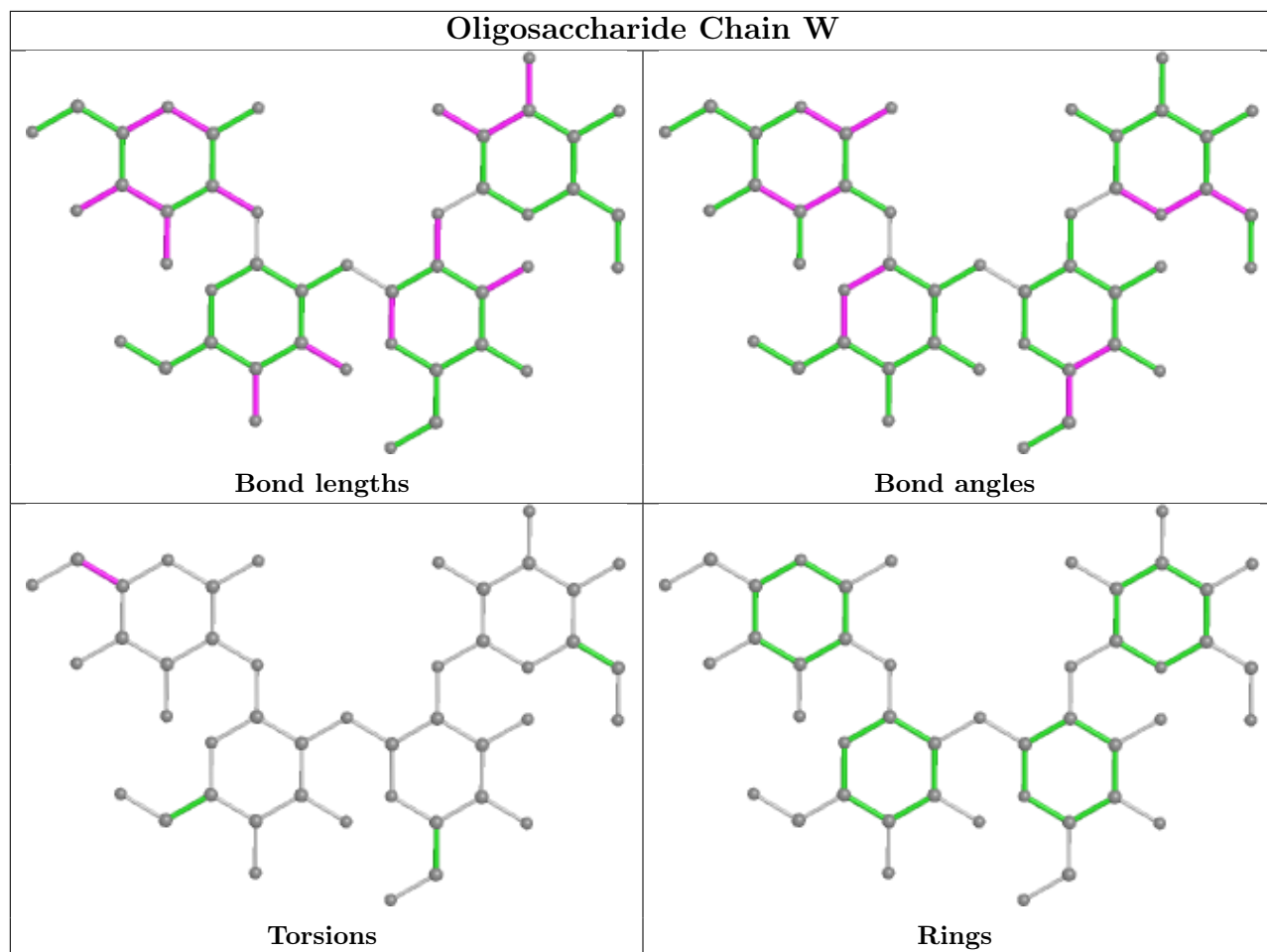


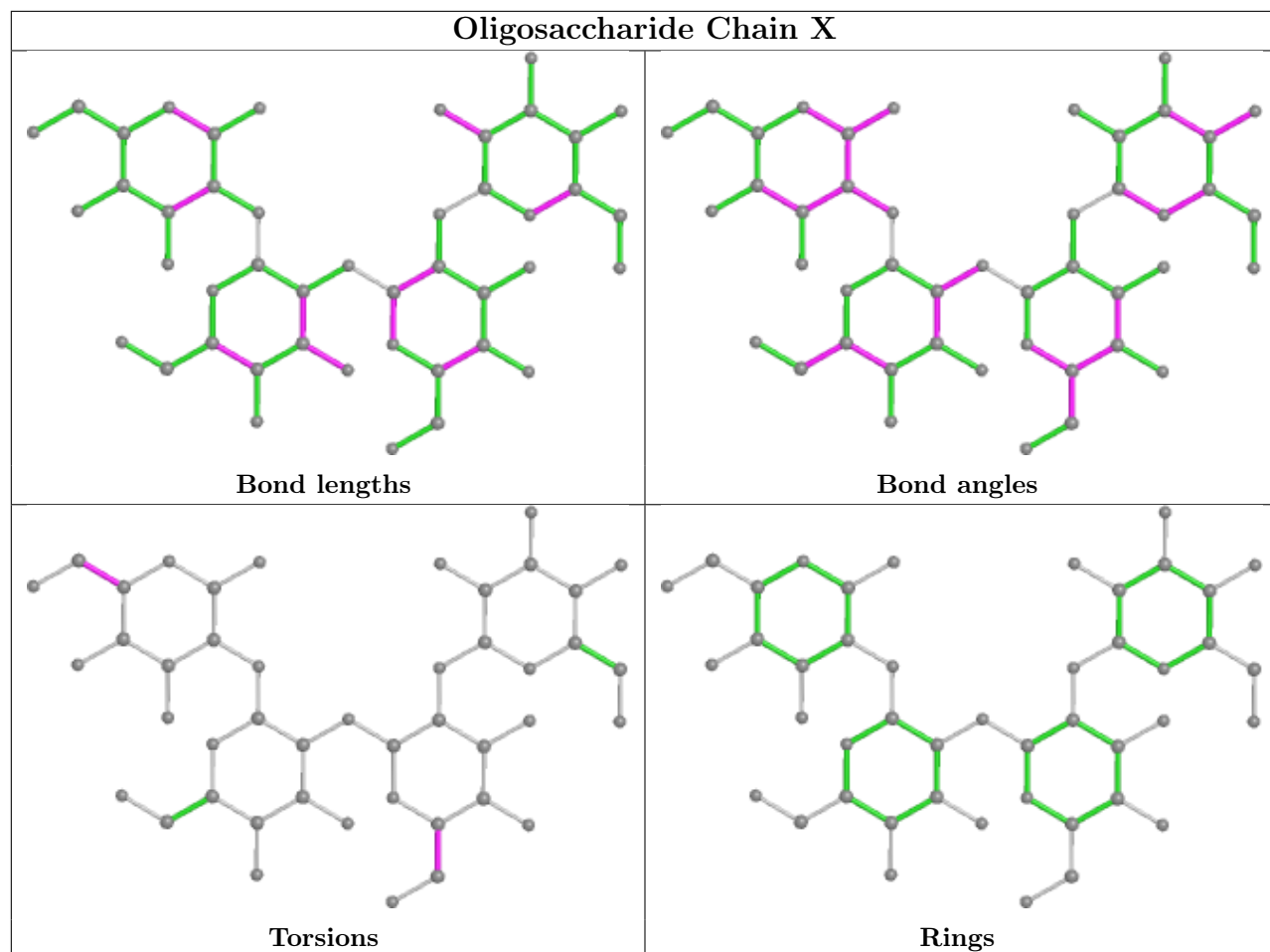


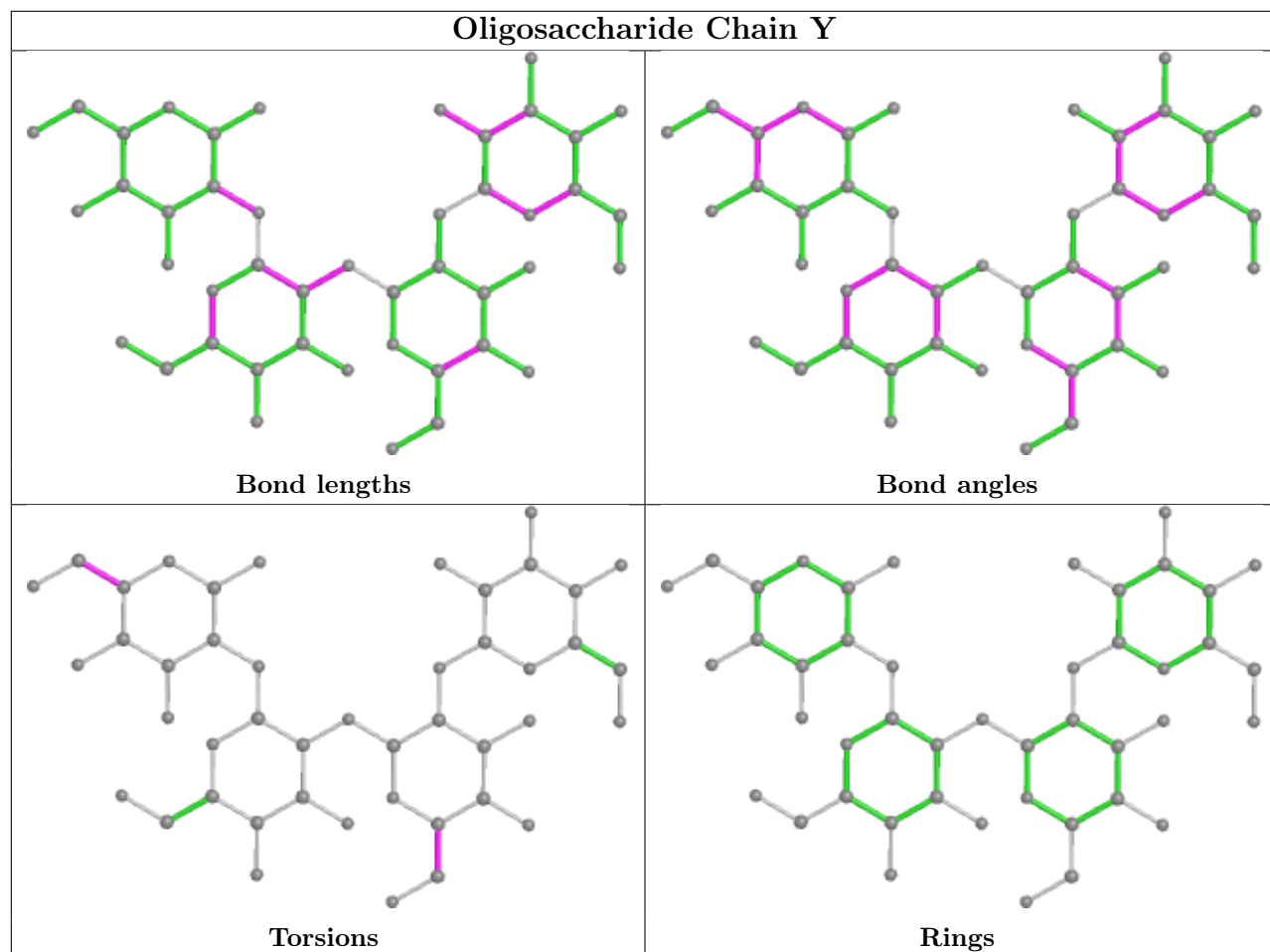


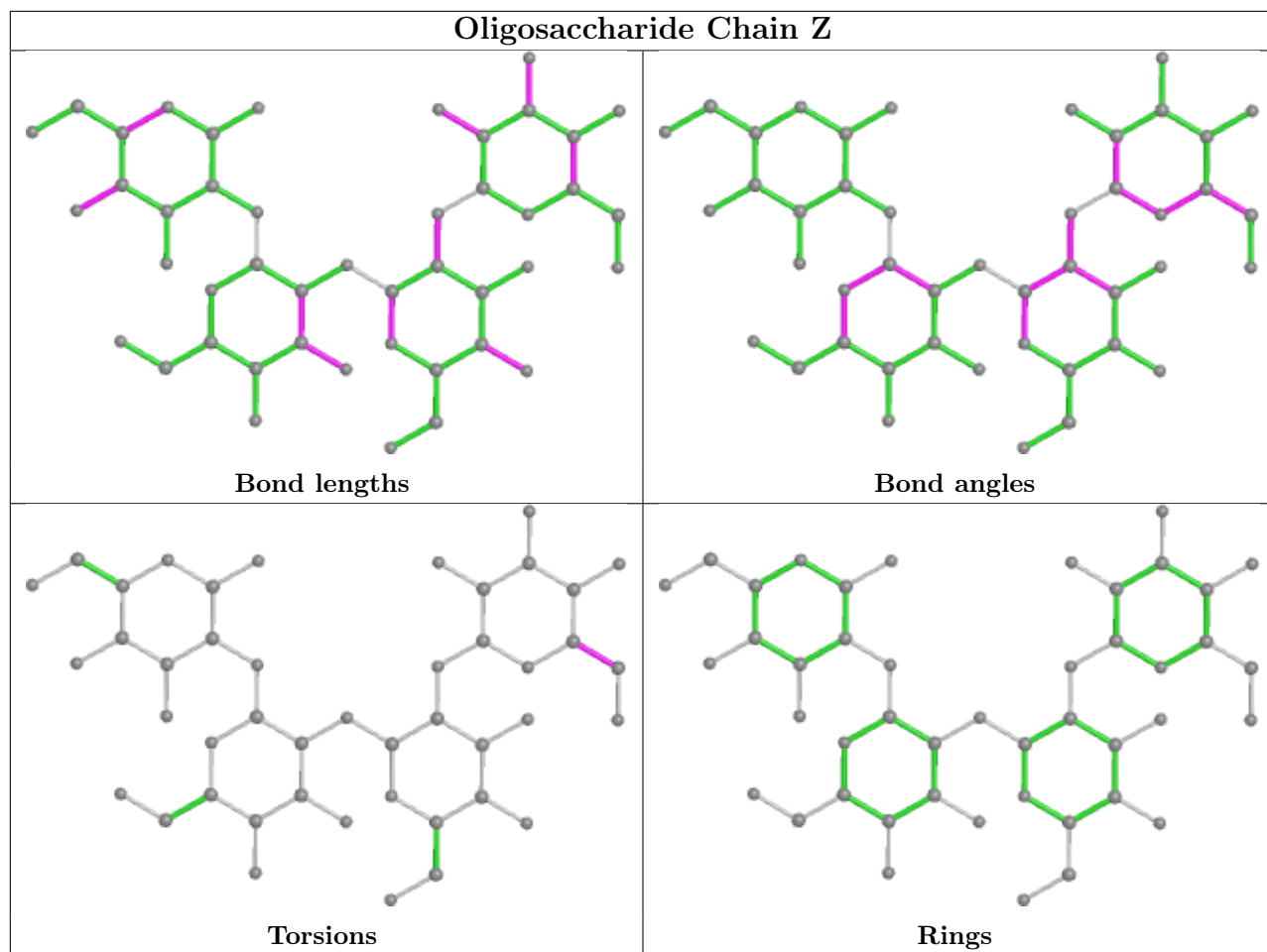


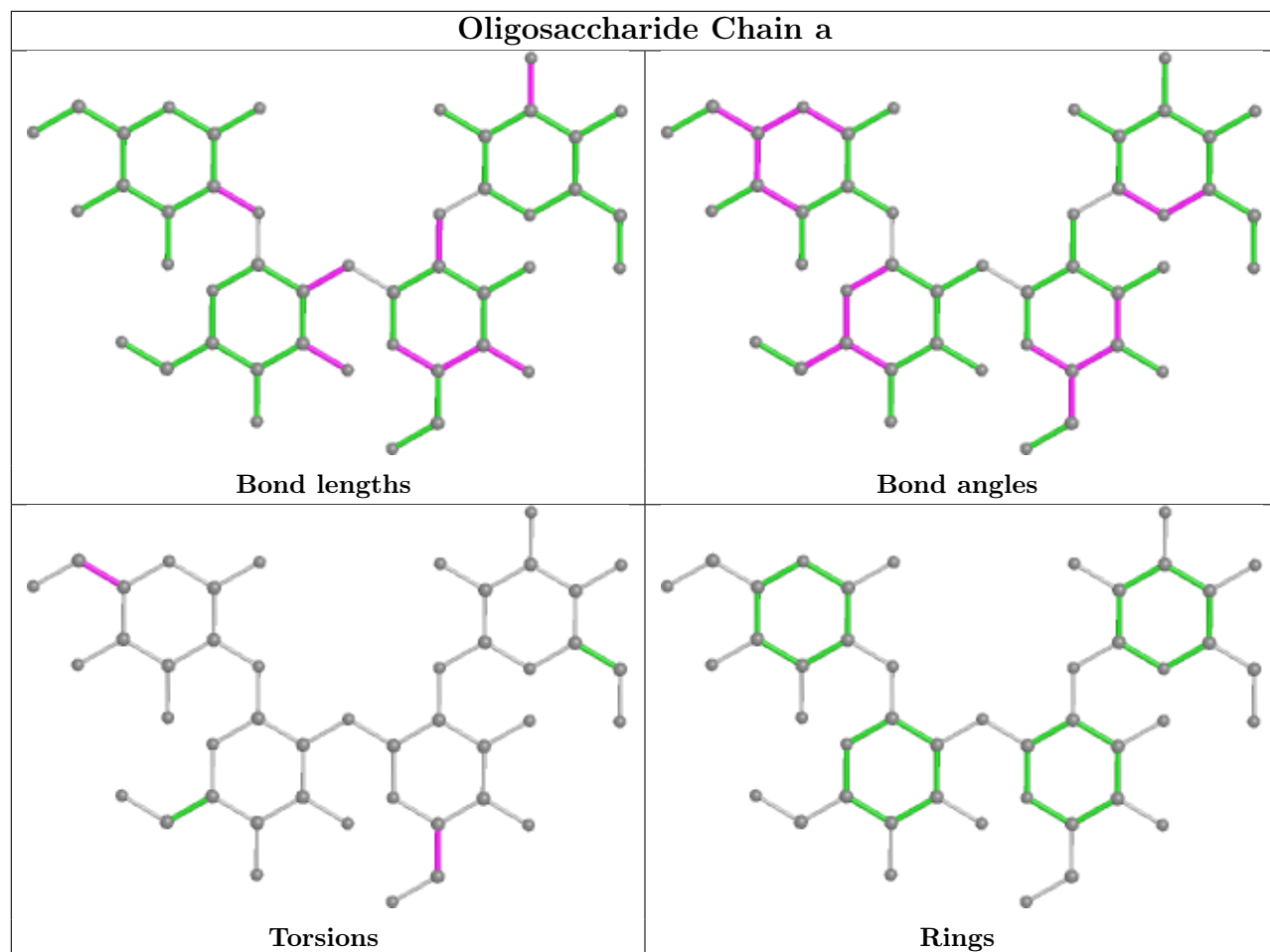


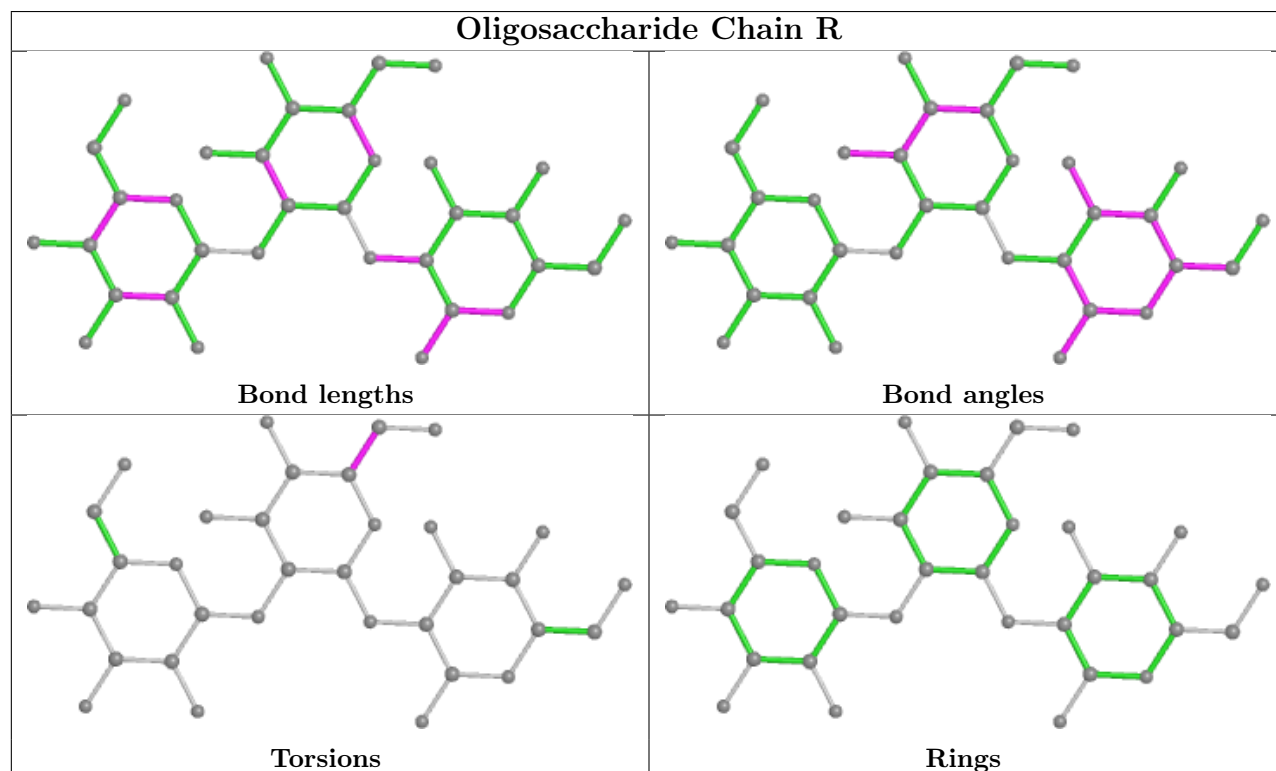
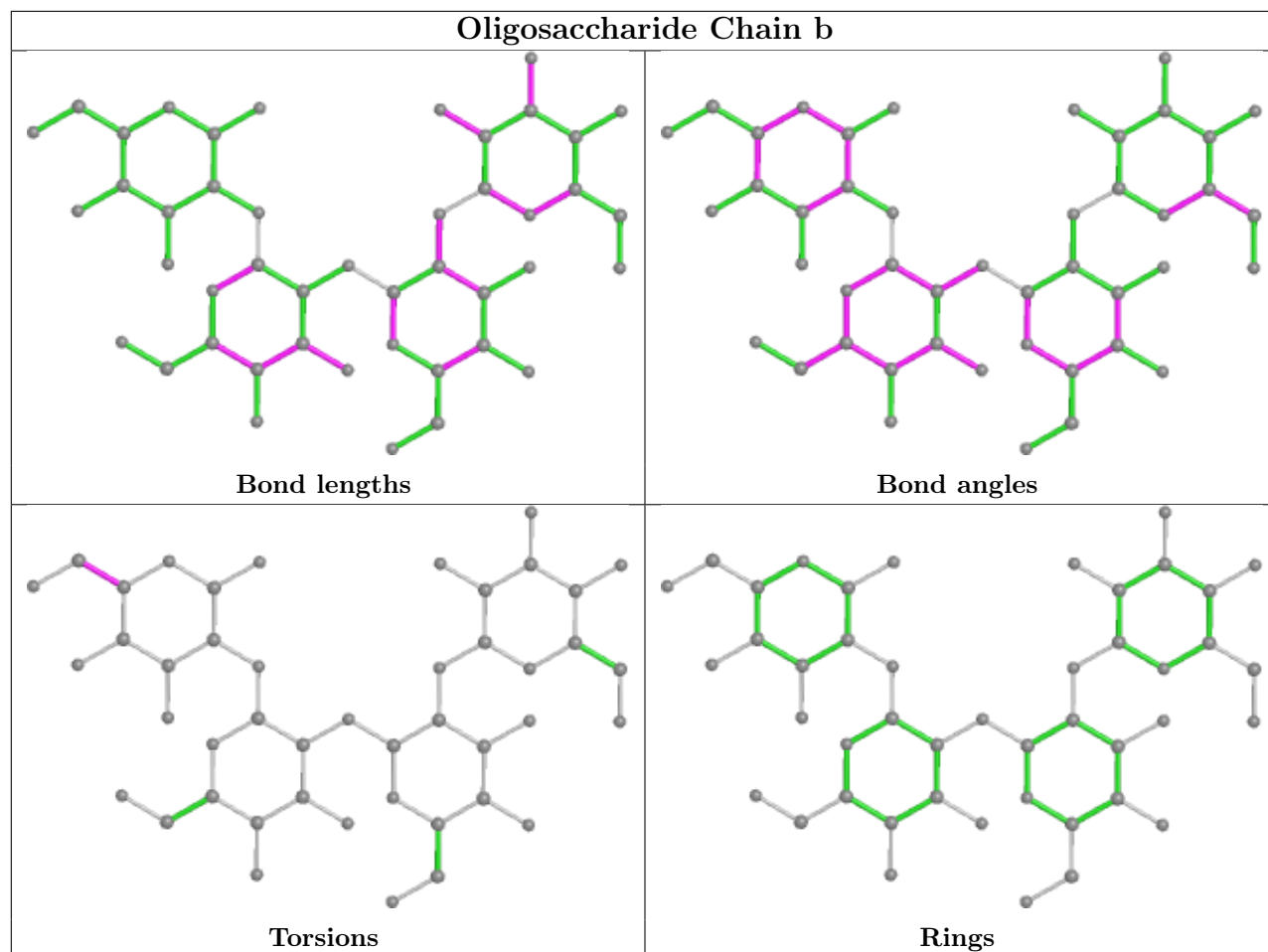


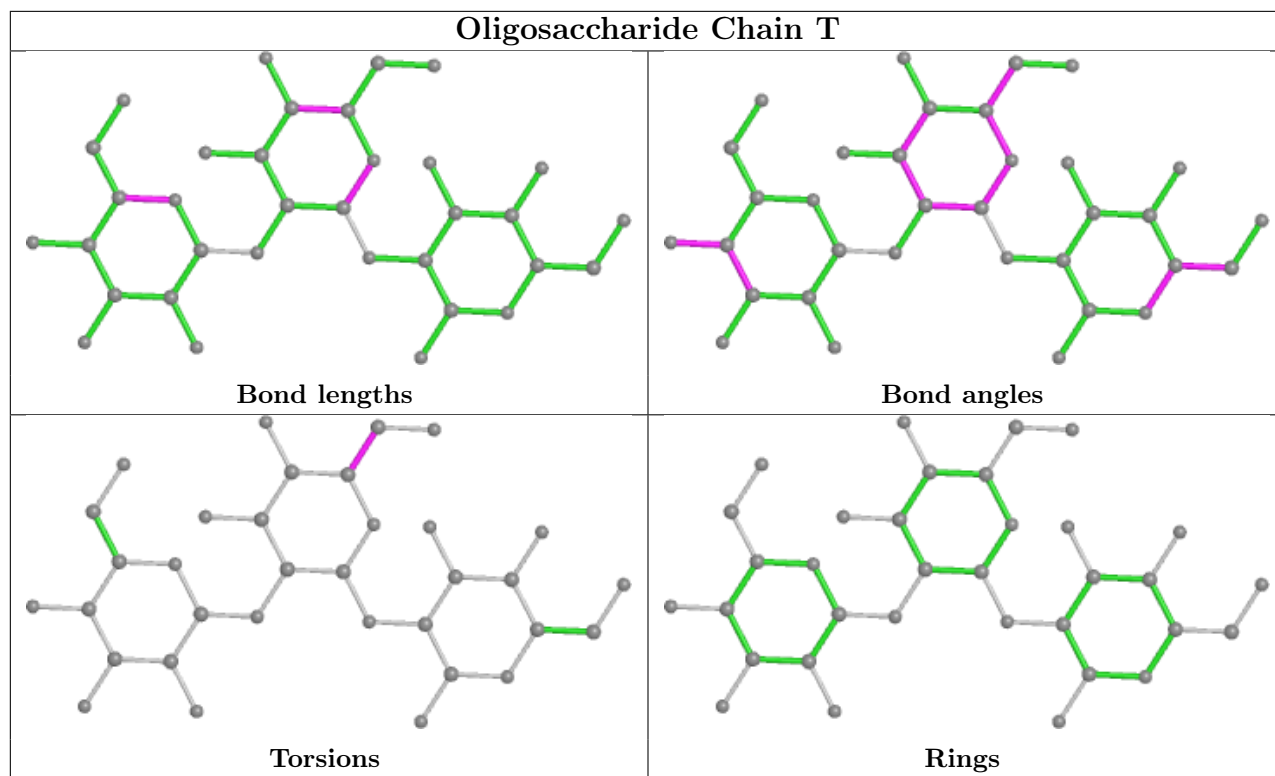












5.6 Ligand geometry [i](#)

7 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
4	EDO	C	301	-	3,3,3	0.13	0	2,2,2	0.27	0
4	EDO	F	301	-	3,3,3	0.31	0	2,2,2	0.28	0
4	EDO	D	301	-	3,3,3	0.06	0	2,2,2	0.30	0
4	EDO	M	301	-	3,3,3	0.60	0	2,2,2	0.55	0
4	EDO	K	301	-	3,3,3	0.23	0	2,2,2	0.26	0
4	EDO	H	301	-	3,3,3	0.48	0	2,2,2	0.47	0
4	EDO	K	302	-	3,3,3	0.15	0	2,2,2	0.20	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	EDO	C	301	-	-	1/1/1/1	-
4	EDO	F	301	-	-	1/1/1/1	-
4	EDO	D	301	-	-	1/1/1/1	-
4	EDO	M	301	-	-	0/1/1/1	-
4	EDO	K	301	-	-	1/1/1/1	-
4	EDO	H	301	-	-	1/1/1/1	-
4	EDO	K	302	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	K	301	EDO	O1-C1-C2-O2
4	H	301	EDO	O1-C1-C2-O2
4	K	302	EDO	O1-C1-C2-O2
4	F	301	EDO	O1-C1-C2-O2
4	D	301	EDO	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	F	301	EDO	1	0
4	M	301	EDO	1	0

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	140/145 (96%)	0.17	2 (1%) 75 74	29, 37, 54, 78	0
1	B	140/145 (96%)	0.19	1 (0%) 87 87	24, 36, 64, 84	0
1	C	141/145 (97%)	0.22	7 (4%) 28 28	22, 33, 48, 71	0
1	D	140/145 (96%)	0.22	1 (0%) 87 87	26, 39, 66, 81	0
1	E	141/145 (97%)	0.15	1 (0%) 87 87	21, 29, 49, 64	0
1	F	140/145 (96%)	0.30	3 (2%) 63 62	28, 43, 67, 98	0
1	G	140/145 (96%)	0.07	1 (0%) 87 87	22, 29, 43, 64	0
1	H	140/145 (96%)	0.16	0 100 100	26, 36, 61, 81	0
1	I	140/145 (96%)	0.07	1 (0%) 87 87	24, 32, 51, 68	0
1	J	140/145 (96%)	0.06	0 100 100	23, 31, 47, 62	0
1	K	140/145 (96%)	0.16	2 (1%) 75 74	25, 34, 58, 84	0
1	L	140/145 (96%)	0.12	0 100 100	23, 30, 44, 61	0
1	M	140/145 (96%)	0.17	2 (1%) 75 74	26, 38, 63, 78	0
1	N	140/145 (96%)	0.16	1 (0%) 87 87	24, 32, 55, 84	0
All	All	1962/2030 (96%)	0.16	22 (1%) 80 79	21, 34, 58, 98	0

The worst 5 of 22 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	27	SER	3.9
1	N	27	SER	3.3
1	A	27	SER	3.2
1	M	27	SER	3.1
1	E	4	ASN	2.9

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	MAN	b	1	12/12	0.59	0.31	69,82,89,90	0
2	MAN	U	1	12/12	0.63	0.47	78,87,93,96	0
2	MAN	a	1	12/12	0.67	0.43	74,98,103,108	0
2	MAN	Y	1	12/12	0.72	0.41	71,93,98,99	0
2	MAN	X	2	11/12	0.73	0.18	39,54,65,65	0
2	MAN	O	4	11/12	0.76	0.42	78,89,95,97	0
2	MAN	V	1	12/12	0.76	0.40	51,68,75,82	0
2	MAN	Z	4	11/12	0.77	0.32	65,77,94,99	0
3	MAN	R	3	11/12	0.80	0.15	39,44,49,56	0
2	MAN	Q	2	11/12	0.81	0.15	50,60,66,67	0
2	MAN	S	4	11/12	0.81	0.34	62,66,71,75	0
3	MAN	T	1	12/12	0.81	0.21	48,69,71,73	0
2	MAN	O	1	12/12	0.82	0.22	33,55,59,63	0
3	MAN	R	1	12/12	0.83	0.14	49,54,56,61	0
2	MAN	Y	2	11/12	0.83	0.18	38,45,53,58	0
2	MAN	X	1	12/12	0.83	0.31	66,82,86,89	0
3	MAN	T	3	11/12	0.84	0.16	35,55,59,59	0
2	MAN	V	3	11/12	0.85	0.18	49,52,55,56	0
2	MAN	U	2	11/12	0.86	0.16	49,61,66,73	0
2	MAN	b	2	11/12	0.86	0.16	42,54,59,61	0
2	MAN	V	4	11/12	0.86	0.11	32,40,45,45	0
2	MAN	Z	2	11/12	0.86	0.26	47,54,63,69	0
2	MAN	U	3	11/12	0.86	0.22	54,63,71,71	0
2	MAN	O	2	11/12	0.86	0.23	47,58,66,74	0
3	MAN	R	2	11/12	0.87	0.17	47,62,67,71	0
2	MAN	X	3	11/12	0.88	0.17	56,67,79,87	0
2	MAN	Q	1	12/12	0.88	0.31	72,80,86,91	0
2	MAN	b	3	11/12	0.88	0.16	47,54,63,63	0
2	MAN	a	2	11/12	0.88	0.16	37,54,60,62	0
2	MAN	a	3	11/12	0.89	0.17	52,61,70,76	0
2	MAN	X	4	11/12	0.90	0.16	28,43,52,52	0
2	MAN	S	2	11/12	0.90	0.20	37,44,56,63	0

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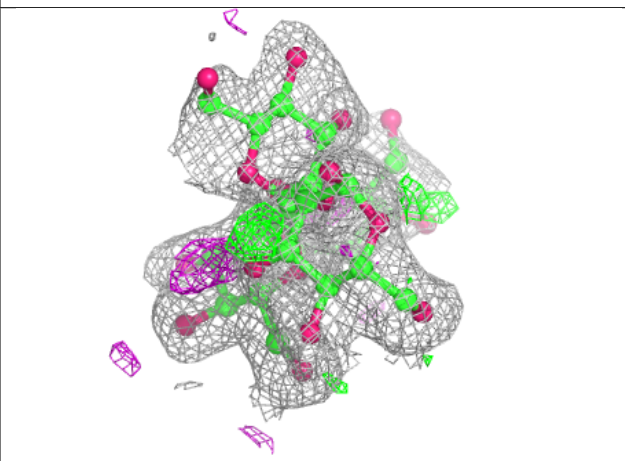
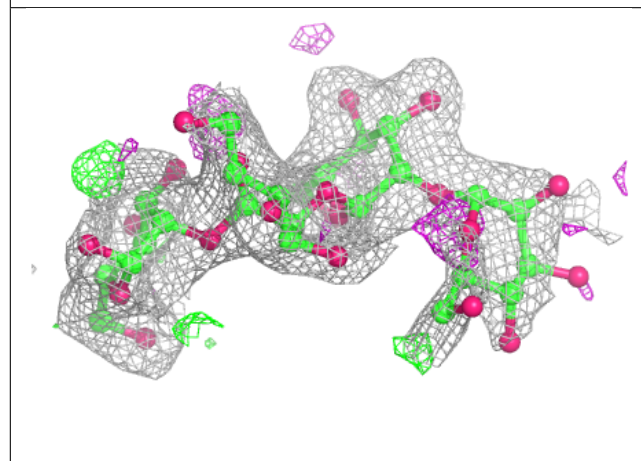
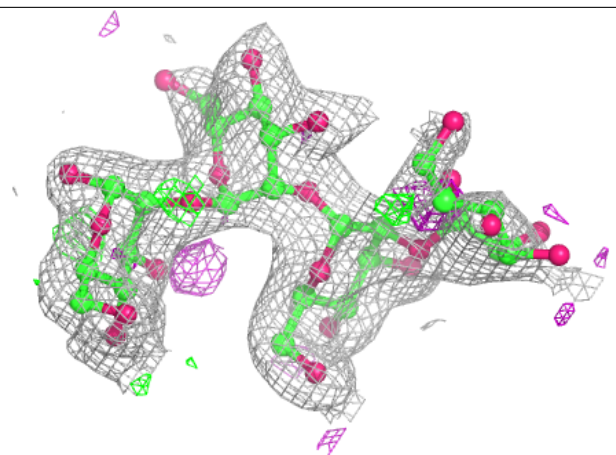
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	MAN	Z	3	11/12	0.90	0.12	27,33,46,49	0
2	MAN	W	1	12/12	0.91	0.21	50,65,77,82	0
2	MAN	O	3	11/12	0.91	0.15	29,43,52,64	0
2	MAN	P	2	11/12	0.91	0.12	31,39,43,43	0
2	MAN	a	4	11/12	0.91	0.10	37,46,49,50	0
2	MAN	Q	3	11/12	0.91	0.18	52,66,71,75	0
2	MAN	Q	4	11/12	0.91	0.14	34,40,50,53	0
2	MAN	Y	3	11/12	0.92	0.21	49,53,60,66	0
2	MAN	W	3	11/12	0.92	0.14	39,42,52,53	0
2	MAN	U	4	11/12	0.93	0.12	34,41,49,57	0
2	MAN	b	4	11/12	0.93	0.09	36,42,45,47	0
2	MAN	P	4	11/12	0.93	0.11	26,36,42,48	0
2	MAN	Z	1	12/12	0.93	0.12	29,36,42,48	0
2	MAN	W	2	11/12	0.93	0.12	32,42,46,47	0
2	MAN	P	1	12/12	0.93	0.21	44,52,58,63	0
3	MAN	T	2	11/12	0.93	0.20	60,74,77,77	0
2	MAN	W	4	11/12	0.93	0.11	26,34,38,40	0
2	MAN	S	1	12/12	0.94	0.09	24,33,38,39	0
2	MAN	Y	4	11/12	0.94	0.11	36,39,43,46	0
2	MAN	S	3	11/12	0.94	0.11	24,28,39,46	0
2	MAN	V	2	11/12	0.94	0.18	31,47,54,55	0
2	MAN	P	3	11/12	0.95	0.11	38,44,50,55	0

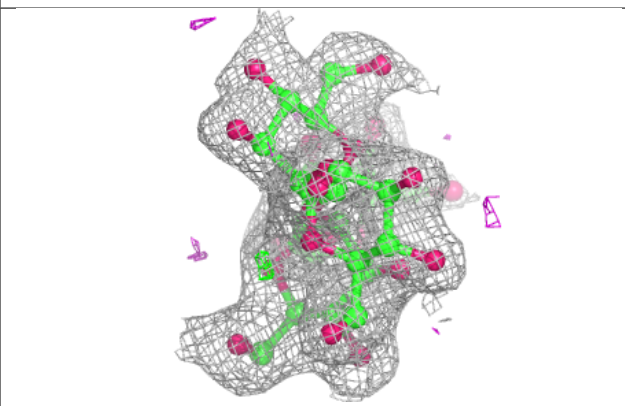
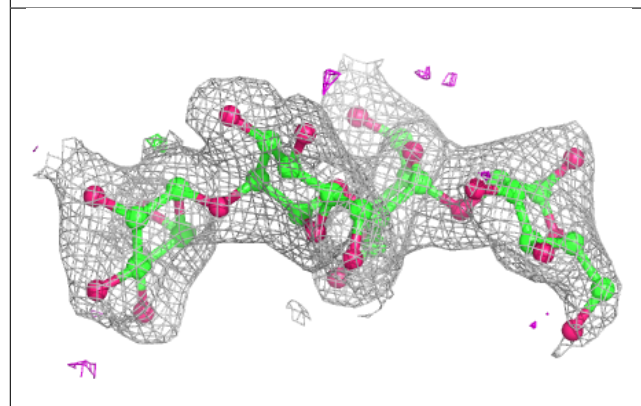
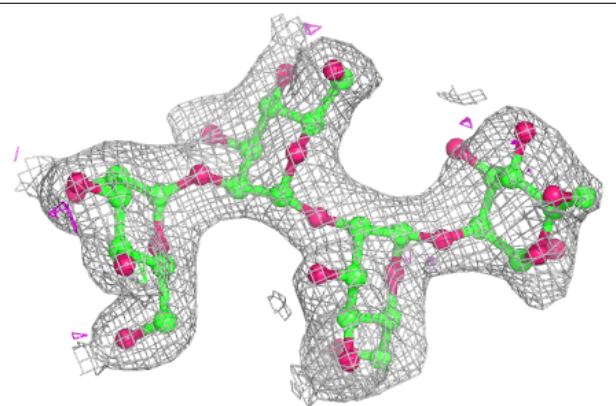
The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around Chain O:

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

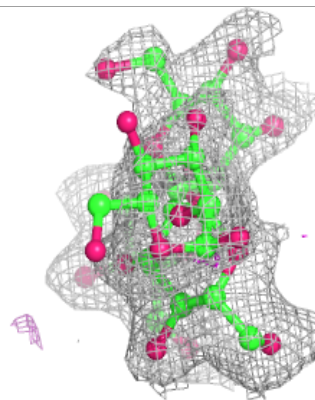
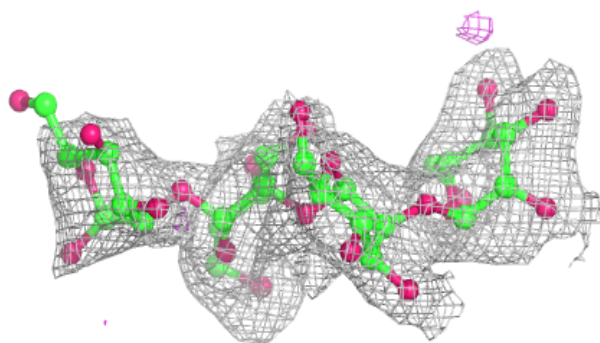
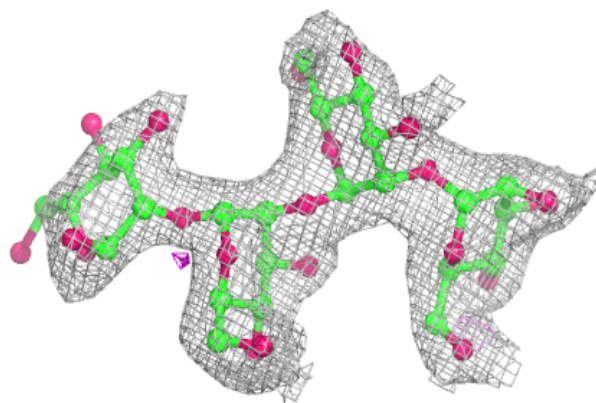
**Electron density around Chain P:**

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

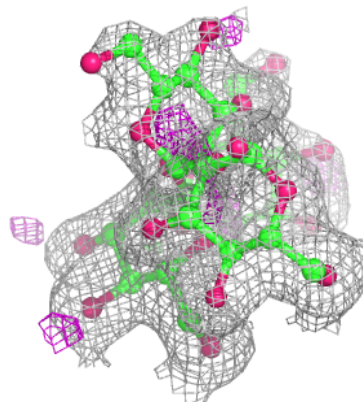
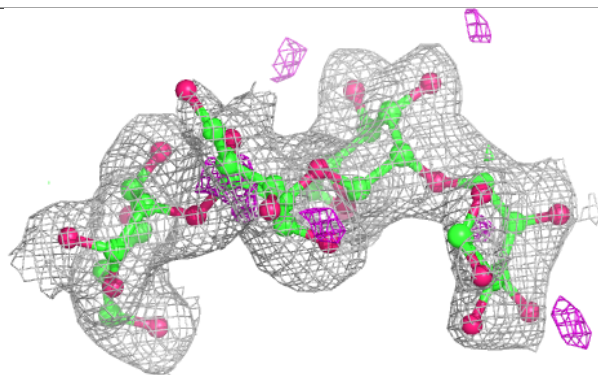
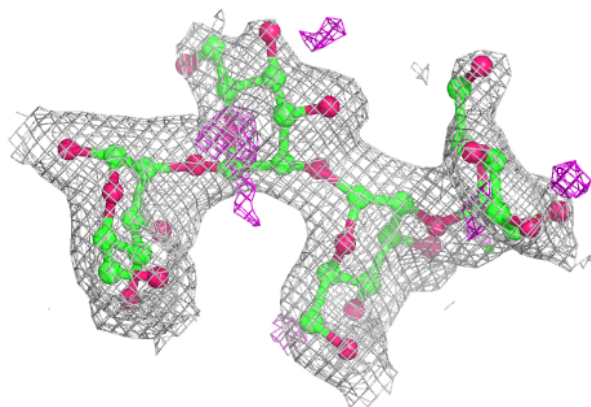


Electron density around Chain Q:

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and green (positive)

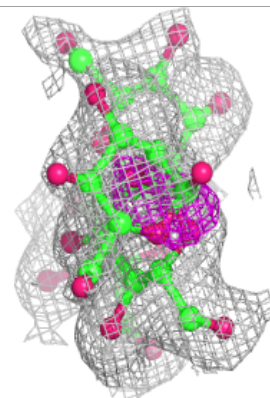
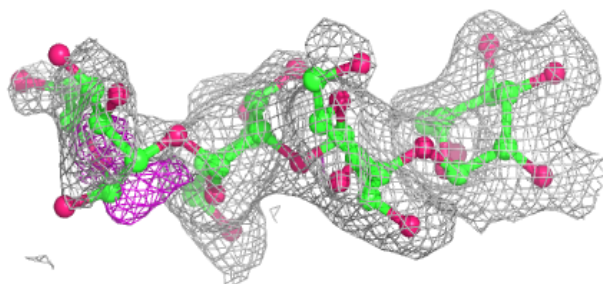
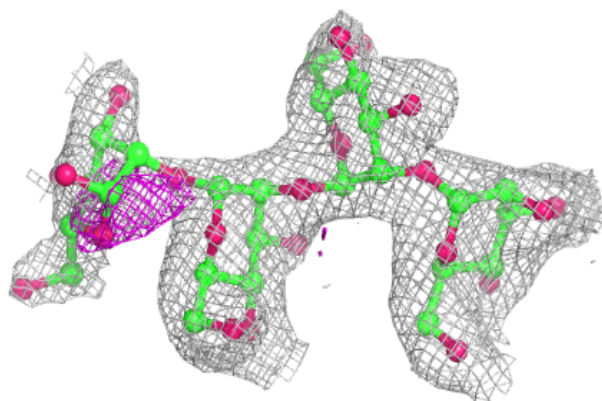
**Electron density around Chain S:**

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

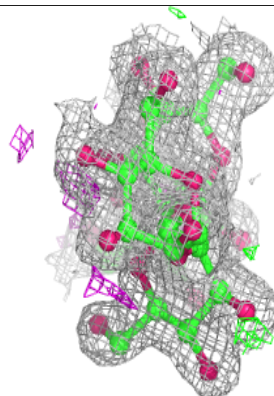
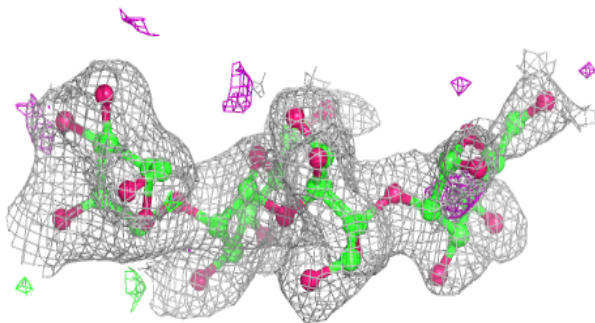
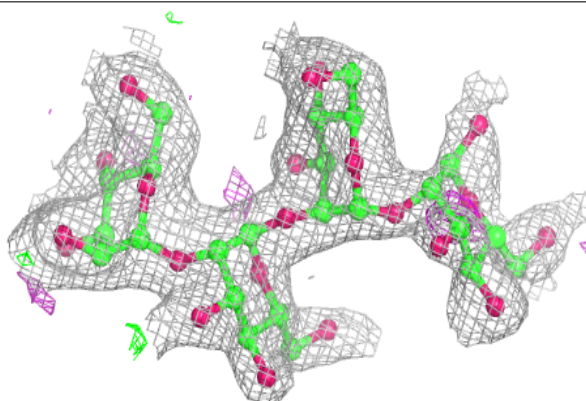


Electron density around Chain U:

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

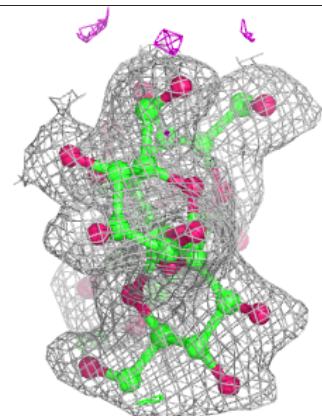
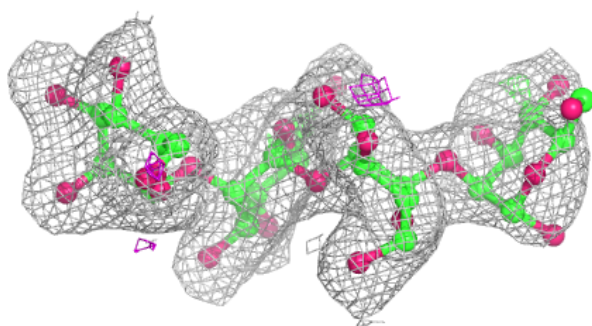
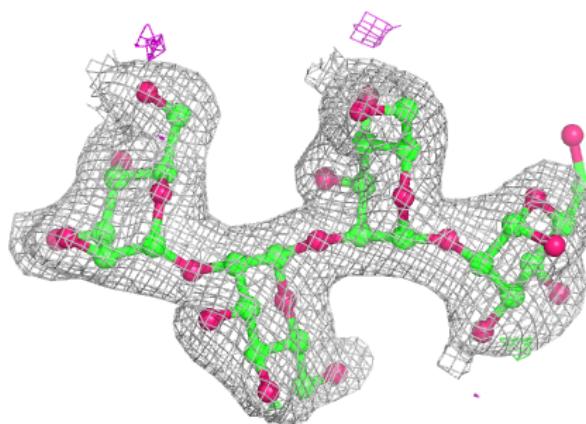
**Electron density around Chain V:**

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and green (positive)

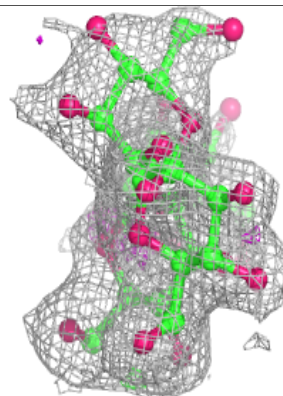
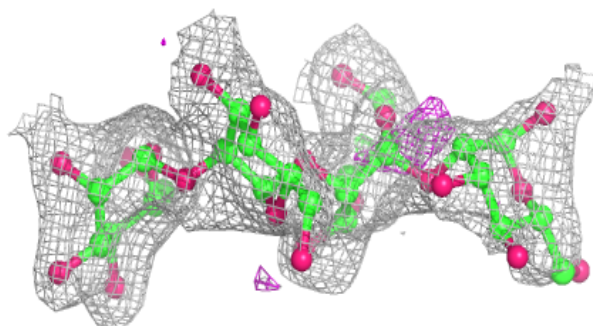
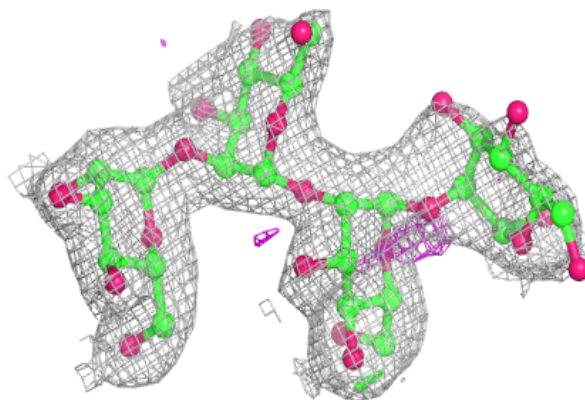


Electron density around Chain W:

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and green (positive)

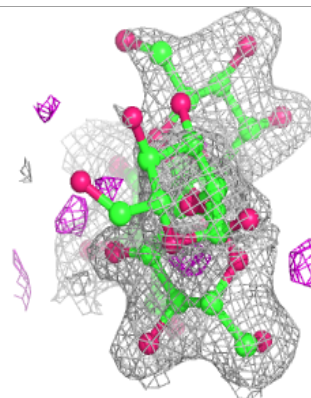
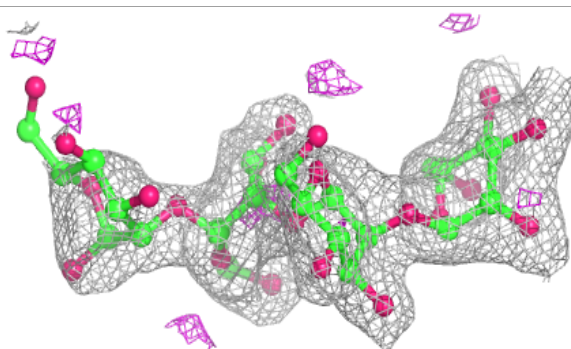
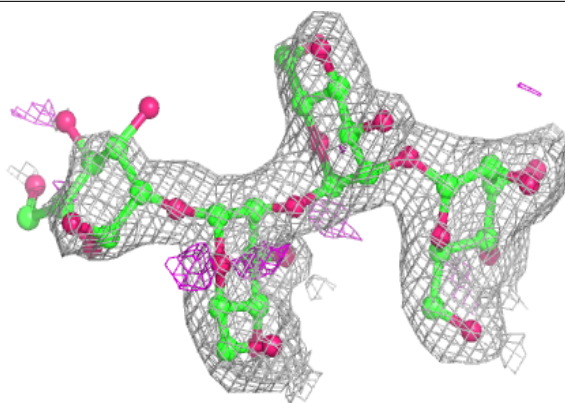
**Electron density around Chain X:**

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

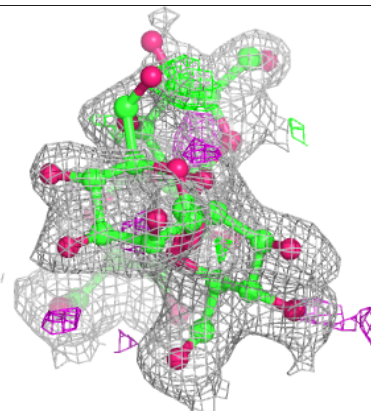
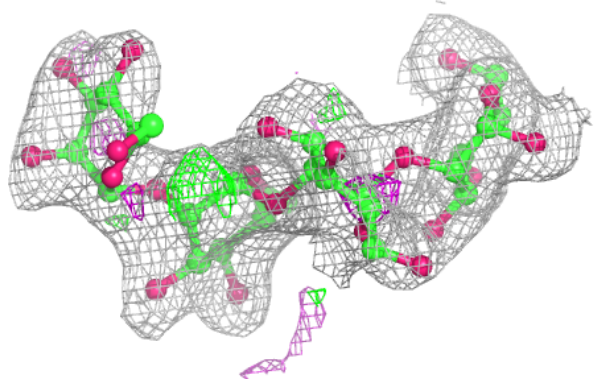
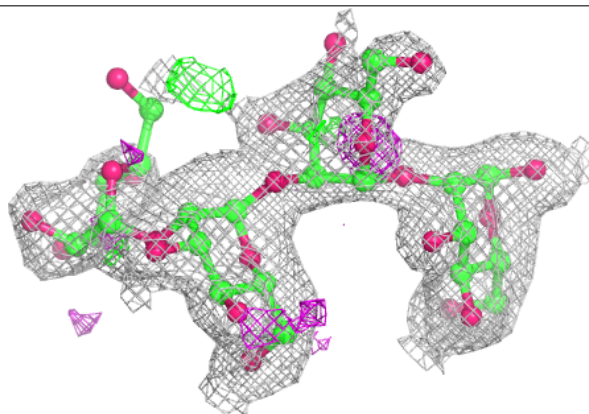


Electron density around Chain Y:

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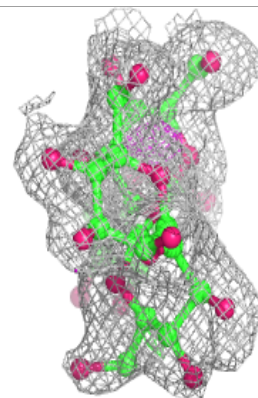
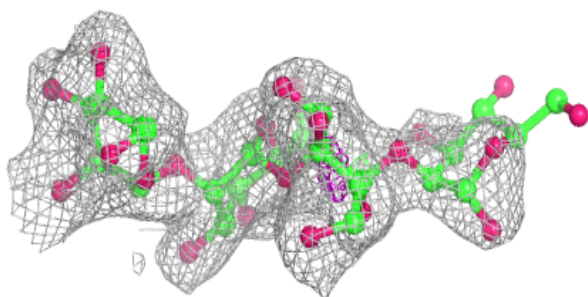
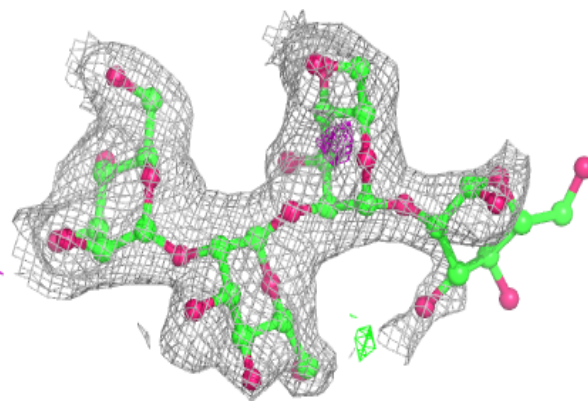
**Electron density around Chain Z:**

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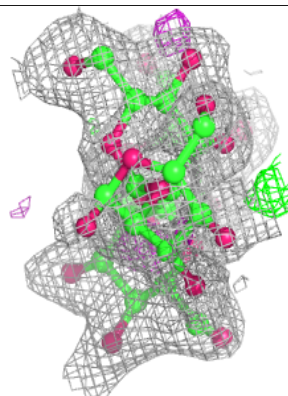
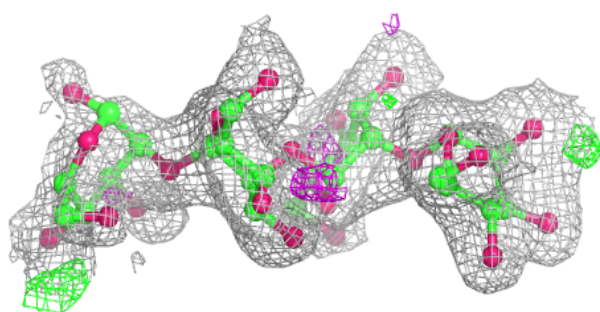
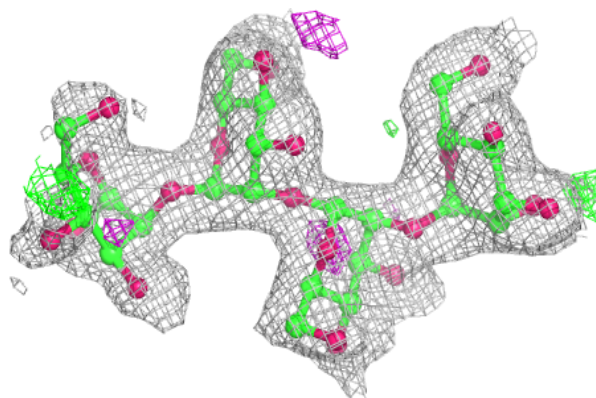


Electron density around Chain a:

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and green (positive)

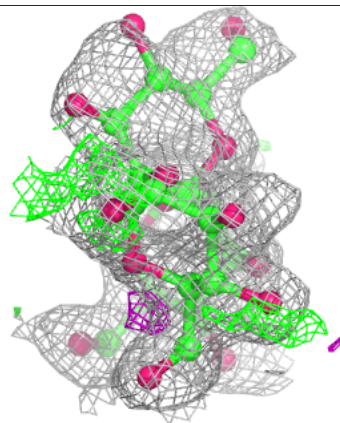
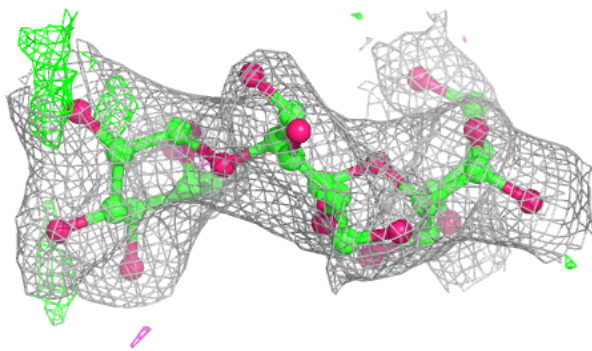
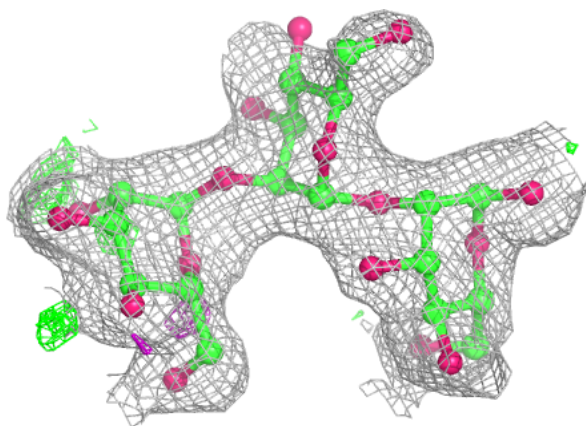
**Electron density around Chain b:**

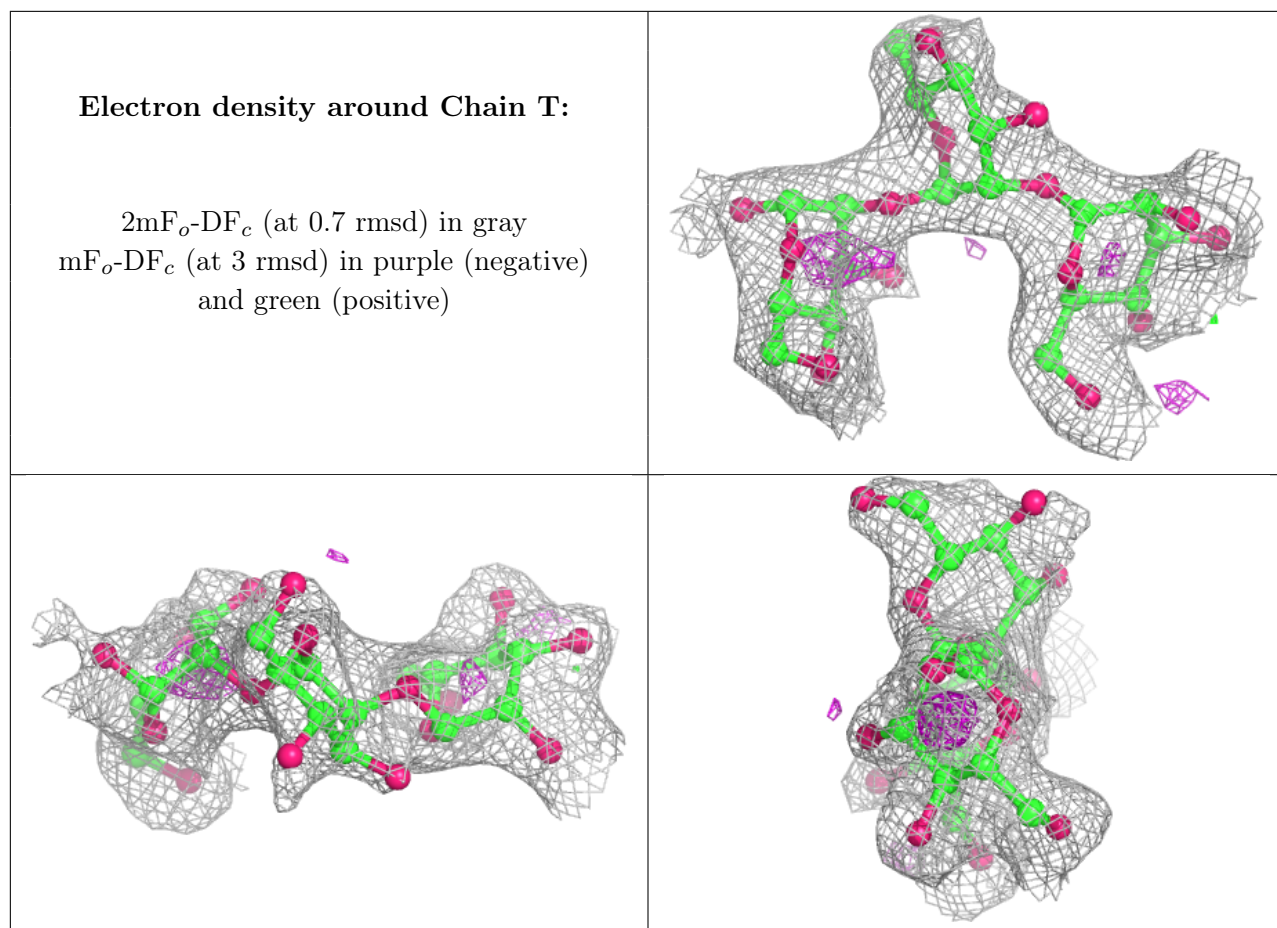
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around Chain R:

$2mF_o-DF_c$ (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
4	EDO	K	301	4/4	0.64	0.21	58,65,68,71	0
4	EDO	F	301	4/4	0.85	0.14	41,44,44,48	0
4	EDO	M	301	4/4	0.86	0.16	41,43,45,46	0
4	EDO	H	301	4/4	0.88	0.15	36,37,37,40	0
4	EDO	K	302	4/4	0.89	0.13	49,50,52,55	0
4	EDO	C	301	4/4	0.93	0.16	48,52,52,53	0
4	EDO	D	301	4/4	0.94	0.15	40,40,40,43	0

6.5 Other polymers [i](#)

There are no such residues in this entry.