



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 15, 2026 – 02:00 PM UTC

PDB ID : 5Z5K / pdb_00005z5k
Title : Structure of the DCC-Draxin complex
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Deposited on : 2018-01-18
Resolution : 2.49 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	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

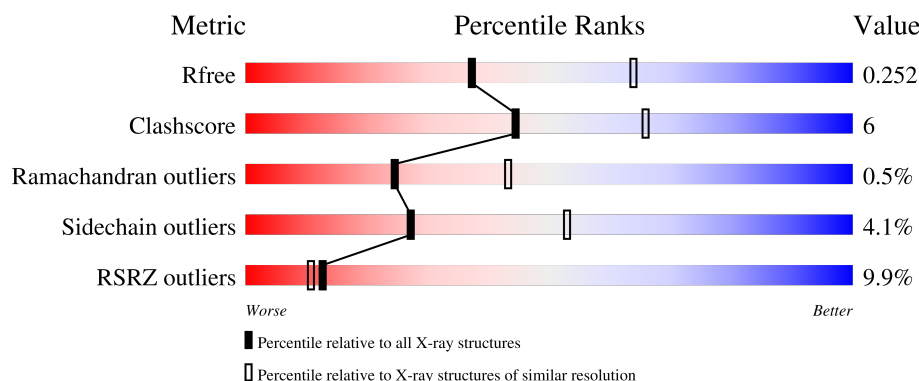
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.49 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	380	4% 84% 16% .
2	B	66	44% 76% 20% ..
3	C	2	100%
3	D	2	50% 50%
3	E	2	100%

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3566 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 Netrin receptor DCC.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	380	Total	C	N	O	S	0	0	0
			2905	1824	502	563	16			

- Molecule 2 is a protein called Draxin.

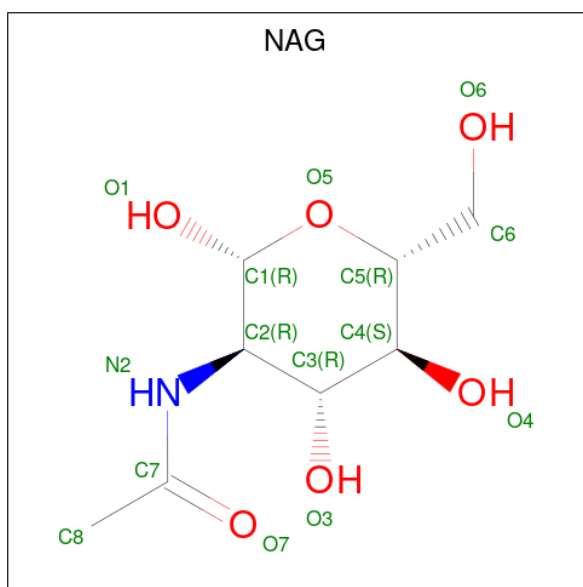
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	66	Total	C	N	O	S	0	0	0
			530	314	111	94	11			

- Molecule 3 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	C	2	Total	C	N	O	0	0	0
			28	16	2	10			
3	D	2	Total	C	N	O	0	0	0
			28	16	2	10			
3	E	2	Total	C	N	O	0	0	0
			28	16	2	10			

- Molecule 4 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			14	8	1	5		

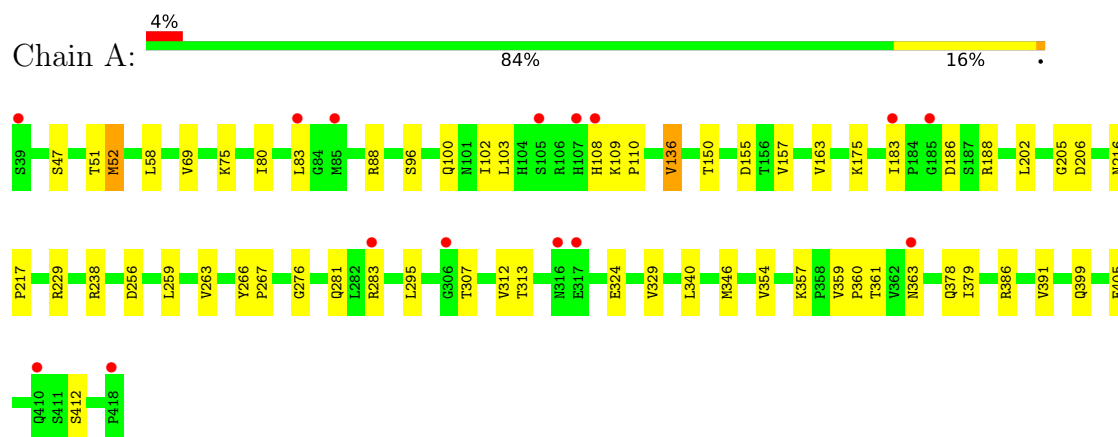
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	33	Total	O	0	0
			33	33		

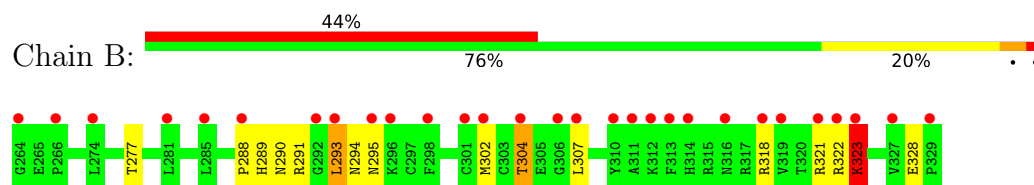
3 Residue-property plots [i](#)

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.

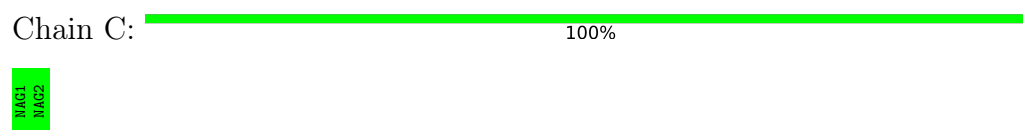
- Molecule 1: Netrin receptor DCC



- Molecule 2: Draxin



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



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



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

Chain E:

100%

MAG1
MAG2

4 Data and refinement statistics

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, α , β , γ	108.07Å 108.07Å 130.27Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	35.37 – 2.49 35.37 – 2.49	Depositor EDS
% Data completeness (in resolution range)	99.3 (35.37-2.49) 90.7 (35.37-2.49)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.31 (at 2.48Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.212 , 0.247 0.216 , 0.252	Depositor DCC
R_{free} test set	1488 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	52.5	Xtriage
Anisotropy	0.361	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 37.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.047 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3566	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.06% 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

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	0.14	0/2965	0.35	0/4033
2	B	0.13	0/541	0.39	0/725
All	All	0.13	0/3506	0.36	0/4758

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	2905	0	2866	31	0
2	B	530	0	491	12	0
3	C	28	0	25	0	0
3	D	28	0	25	1	0
3	E	28	0	25	1	0
4	A	14	0	13	0	0
5	A	33	0	0	2	0
All	All	3566	0	3445	42	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 6.

All (42) 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:A:47:SER:O	5:A:601:HOH:O	1.95	0.84
1:A:150:THR:OG1	1:A:229:ARG:NH1	2.20	0.75
1:A:256:ASP:O	5:A:602:HOH:O	2.14	0.66
1:A:155:ASP:OD2	1:A:238:ARG:NH2	2.26	0.64
1:A:175:LYS:NZ	1:A:205:GLY:O	2.27	0.64
2:B:289:HIS:CD2	2:B:302:MET:HG3	2.37	0.60
1:A:263:VAL:HG21	1:A:312:VAL:HG21	1.86	0.58
1:A:379:ILE:HG13	2:B:321:ARG:HD3	1.87	0.57
1:A:405:GLU:N	1:A:405:GLU:OE1	2.38	0.56
2:B:290:ASN:HB3	2:B:304:THR:HG23	1.88	0.55
1:A:183:ILE:HB	1:A:186:ASP:HB3	1.89	0.54
2:B:289:HIS:HD2	2:B:302:MET:HG3	1.73	0.53
1:A:157:VAL:HG23	1:A:202:LEU:HD11	1.92	0.52
1:A:399:GLN:HG2	1:A:412:SER:HB3	1.91	0.51
1:A:183:ILE:H	1:A:183:ILE:HD12	1.75	0.51
2:B:277:THR:HG22	2:B:288:PRO:HA	1.95	0.49
1:A:75:LYS:HG2	1:A:80:ILE:HD13	1.95	0.48
1:A:58:LEU:HD11	1:A:96:SER:HB3	1.96	0.47
1:A:58:LEU:HD21	3:D:1:NAG:H3	1.97	0.46
1:A:52:MET:HA	1:A:136:VAL:HG23	1.97	0.46
3:E:1:NAG:H61	3:E:2:NAG:O5	2.16	0.46
1:A:329:VAL:HB	1:A:357:LYS:H	1.82	0.45
2:B:307:LEU:HD23	2:B:328:GLU:HB3	1.98	0.45
1:A:259:LEU:HD12	1:A:295:LEU:HD23	1.99	0.45
1:A:216:ASN:HB2	1:A:217:PRO:HD2	1.99	0.44
1:A:307:THR:OG1	1:A:324:GLU:OE1	2.25	0.44
1:A:109:LYS:N	1:A:110:PRO:HD3	2.34	0.43
1:A:378:GLN:HE21	1:A:386:ARG:HD2	1.83	0.43
2:B:323:LYS:O	2:B:323:LYS:HD2	2.19	0.43
2:B:322:ARG:C	2:B:323:LYS:HG3	2.44	0.43
1:A:88:ARG:HB3	1:A:100:GLN:O	2.19	0.43
2:B:293:LEU:HD22	2:B:294:ASN:HD22	1.84	0.42
1:A:363:ASN:OD1	2:B:321:ARG:NH1	2.52	0.42
1:A:281:GLN:O	1:A:283:ARG:N	2.53	0.41
2:B:302:MET:HE3	2:B:302:MET:HB2	1.86	0.41
1:A:266:TYR:CG	1:A:267:PRO:HA	2.56	0.41
1:A:359:VAL:HA	1:A:360:PRO:HD3	1.92	0.41
1:A:188:ARG:NH2	1:A:206:ASP:OD1	2.54	0.41
1:A:238:ARG:NH1	1:A:266:TYR:HB2	2.36	0.41
2:B:291:ARG:HB3	2:B:295:ASN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:THR:HG21	1:A:102:ILE:HG13	2.03	0.41
1:A:108:HIS:C	1:A:110:PRO:HD3	2.46	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	378/380 (100%)	359 (95%)	18 (5%)	1 (0%)	36 55
2	B	64/66 (97%)	60 (94%)	3 (5%)	1 (2%)	7 14
All	All	442/446 (99%)	419 (95%)	21 (5%)	2 (0%)	24 43

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	323	LYS
1	A	276	GLY

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	328/328 (100%)	316 (96%)	12 (4%)	30 57
2	B	60/60 (100%)	56 (93%)	4 (7%)	15 31

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	388/388 (100%)	372 (96%)	16 (4%)	27 53

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	52	MET
1	A	69	VAL
1	A	83	LEU
1	A	103	LEU
1	A	136	VAL
1	A	163	VAL
1	A	313	THR
1	A	340	LEU
1	A	346	MET
1	A	354	VAL
1	A	361	THR
1	A	391	VAL
2	B	293	LEU
2	B	304	THR
2	B	318	ARG
2	B	323	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	408	ASN
2	B	289	HIS
2	B	294	ASN
2	B	314	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

6 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	$\# Z > 2$
3	NAG	C	1	3,1	14,14,15	0.21	0	17,19,21	0.45	0
3	NAG	C	2	3	14,14,15	0.25	0	17,19,21	0.42	0
3	NAG	D	1	3,1	14,14,15	0.28	0	17,19,21	0.41	0
3	NAG	D	2	3	14,14,15	0.21	0	17,19,21	0.46	0
3	NAG	E	1	3,1	14,14,15	0.31	0	17,19,21	0.50	0
3	NAG	E	2	3	14,14,15	0.26	0	17,19,21	0.48	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
3	NAG	C	1	3,1	-	4/6/23/26	0/1/1/1
3	NAG	C	2	3	-	0/6/23/26	0/1/1/1
3	NAG	D	1	3,1	-	0/6/23/26	0/1/1/1
3	NAG	D	2	3	-	4/6/23/26	0/1/1/1
3	NAG	E	1	3,1	-	2/6/23/26	0/1/1/1
3	NAG	E	2	3	-	1/6/23/26	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	E	1	NAG	O5-C5-C6-O6
3	D	2	NAG	O5-C5-C6-O6
3	E	1	NAG	C4-C5-C6-O6

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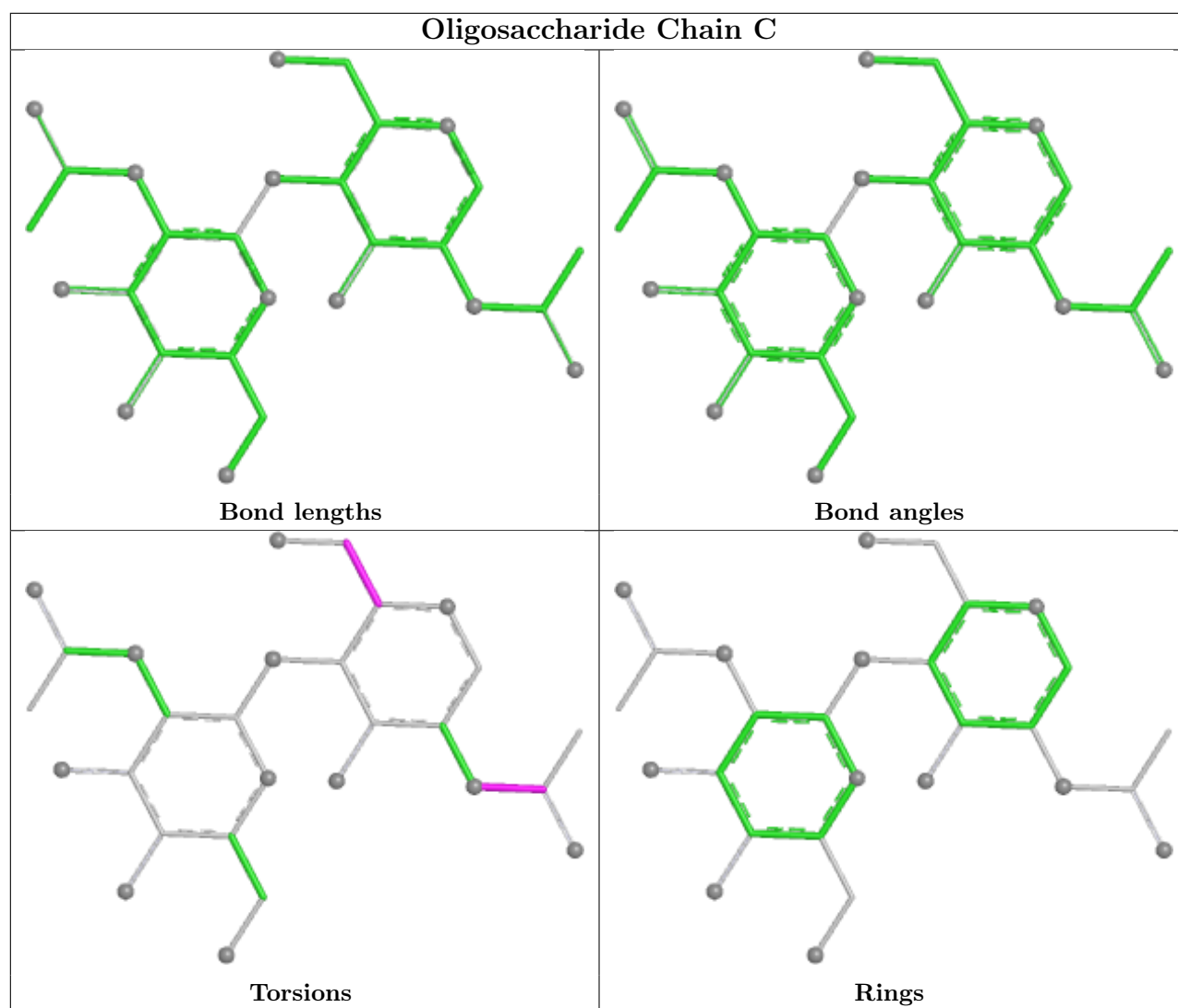
Mol	Chain	Res	Type	Atoms
3	D	2	NAG	C4-C5-C6-O6
3	C	1	NAG	C8-C7-N2-C2
3	C	1	NAG	O7-C7-N2-C2
3	D	2	NAG	C8-C7-N2-C2
3	D	2	NAG	O7-C7-N2-C2
3	E	2	NAG	C4-C5-C6-O6
3	C	1	NAG	C4-C5-C6-O6
3	C	1	NAG	O5-C5-C6-O6

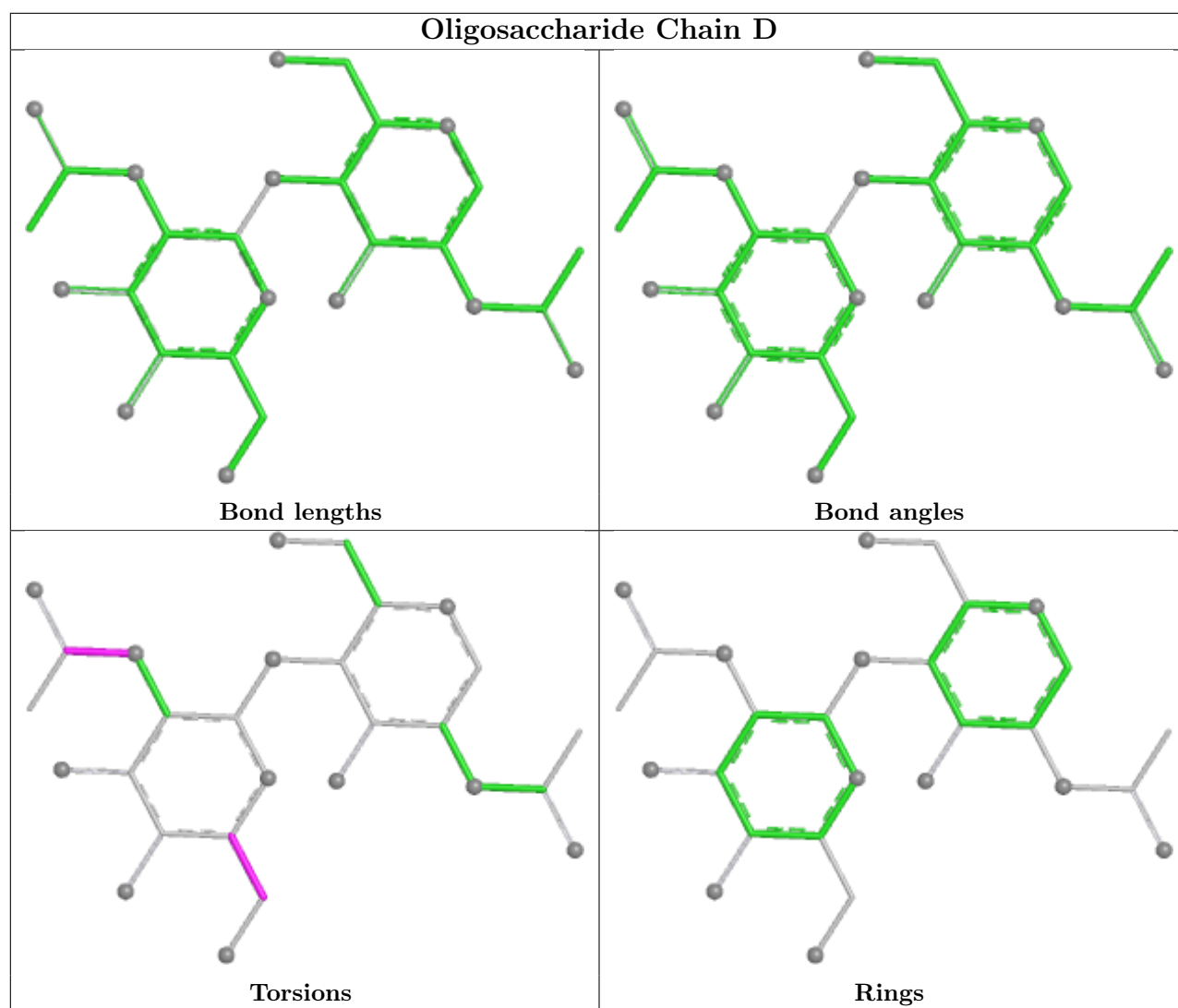
There are no ring outliers.

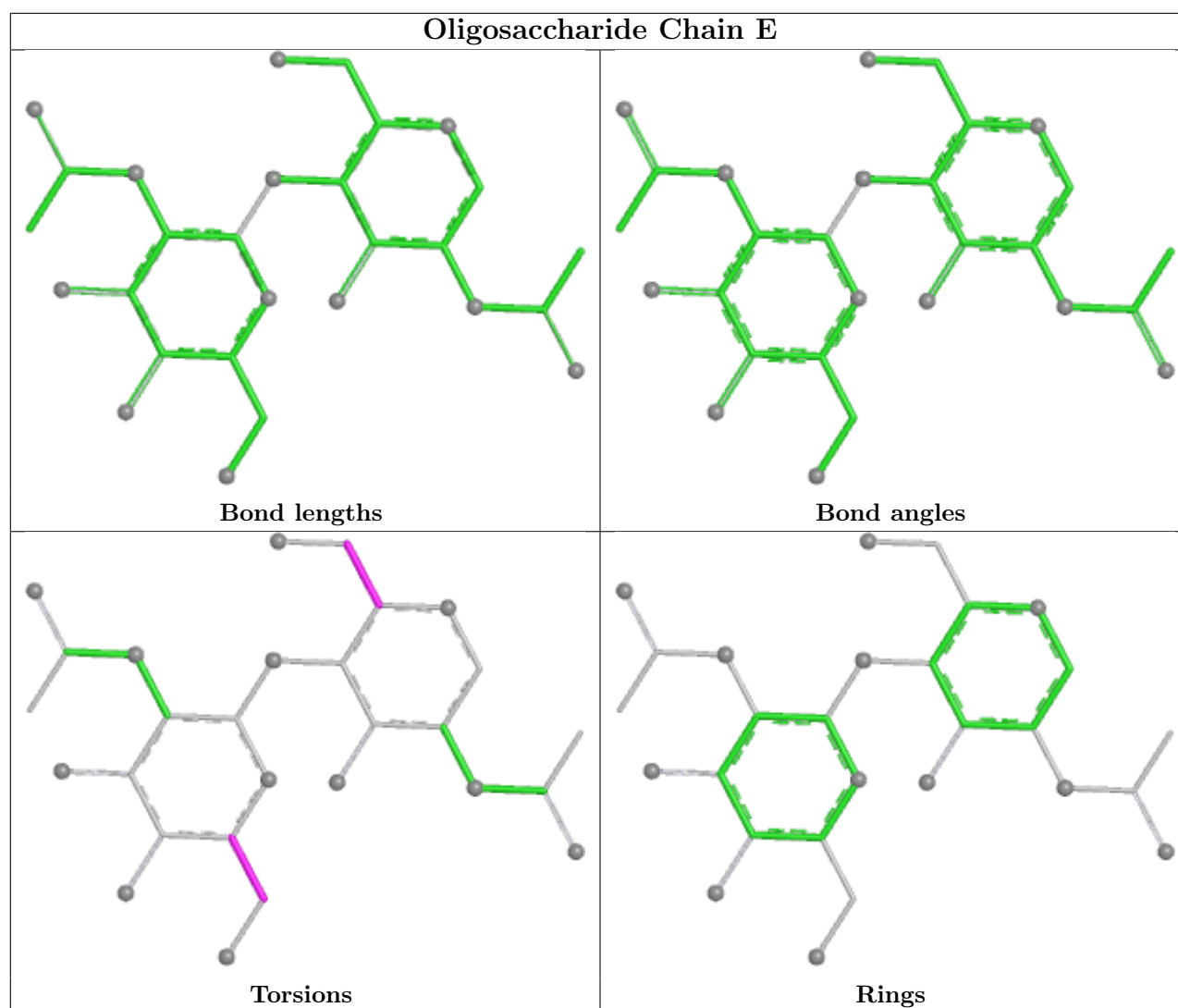
3 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	1	NAG	1	0
3	E	1	NAG	1	0
3	E	2	NAG	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](#)

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	NAG	A	507	1	14,14,15	0.21	0	17,19,21	0.48	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral

centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	A	507	1	-	2/6/23/26	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	507	NAG	C4-C5-C6-O6
4	A	507	NAG	O5-C5-C6-O6

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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	380/380 (100%)	0.23	15 (3%)	43 38	40, 60, 94, 144	0
2	B	66/66 (100%)	1.79	29 (43%)	0 0	69, 111, 135, 163	0
All	All	446/446 (100%)	0.47	44 (9%)	13 11	40, 62, 120, 163	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	310	TYR	5.0
2	B	329	PRO	4.5
2	B	319	VAL	4.3
2	B	313	PHE	3.8
2	B	322	ARG	3.7
2	B	288	PRO	3.6
1	A	108	HIS	3.6
2	B	327	VAL	3.6
2	B	321	ARG	3.5
2	B	293	LEU	3.3
1	A	83	LEU	3.0
2	B	302	MET	3.0
2	B	304	THR	2.9
1	A	283	ARG	2.9
2	B	274	LEU	2.9
2	B	318	ARG	2.8
1	A	105	SER	2.8
2	B	311	ALA	2.8
2	B	316	ASN	2.7
2	B	266	PRO	2.7
2	B	296	LYS	2.7
2	B	312	LYS	2.7
2	B	323	LYS	2.7
1	A	363	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
2	B	306	GLY	2.6
1	A	183	ILE	2.6
2	B	314	HIS	2.5
2	B	264	GLY	2.5
1	A	39	SER	2.5
1	A	316	ASN	2.5
1	A	418	PRO	2.4
1	A	107	HIS	2.4
2	B	295	ASN	2.2
2	B	307	LEU	2.2
2	B	298	PHE	2.2
1	A	85	MET	2.2
1	A	185	GLY	2.2
1	A	410	GLN	2.2
2	B	292	GLY	2.1
1	A	317	GLU	2.1
2	B	301	CYS	2.1
2	B	285	LEU	2.1
2	B	281	LEU	2.0
1	A	306	GLY	2.0

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

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

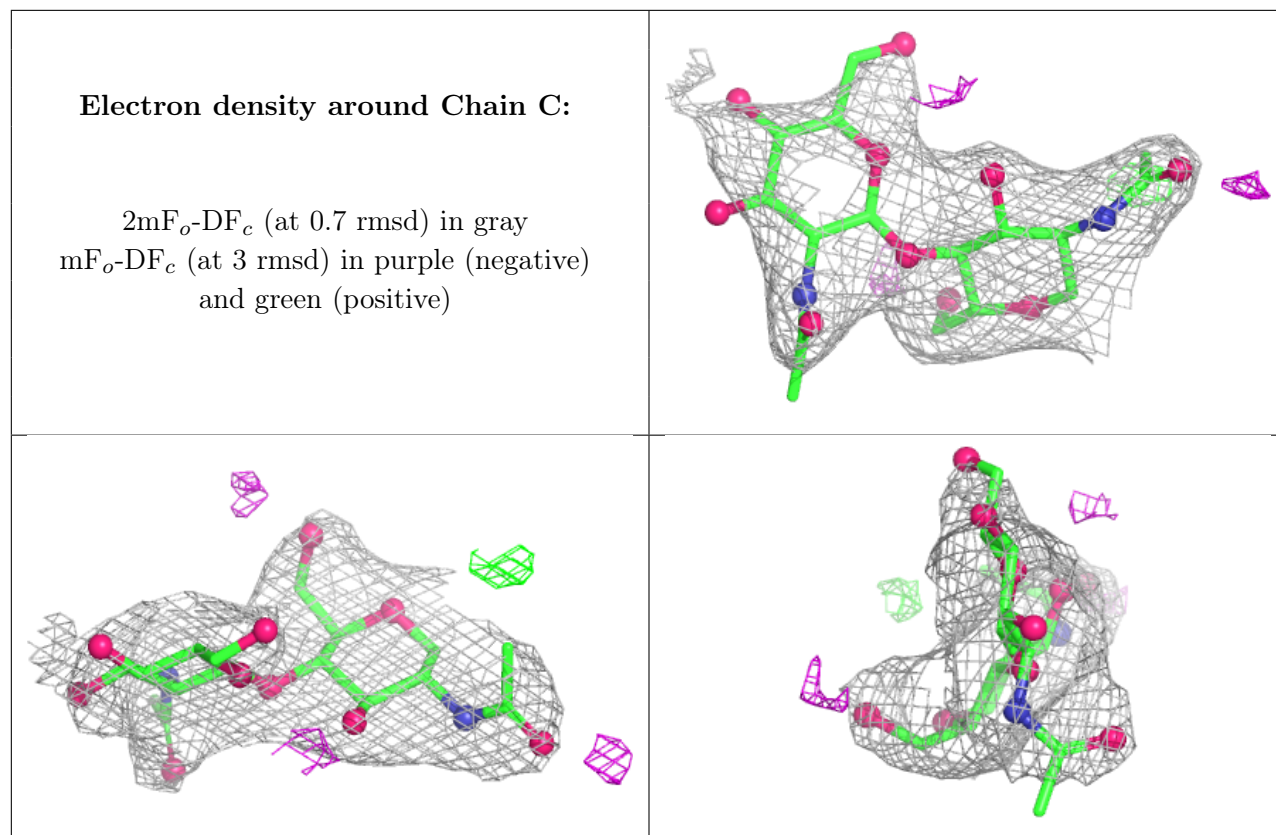
6.3 Carbohydrates [i](#)

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	NAG	E	2	14/15	0.58	0.17	106,125,138,143	0
3	NAG	E	1	14/15	0.67	0.21	104,132,143,149	0
3	NAG	C	2	14/15	0.76	0.15	82,112,122,128	0
3	NAG	D	2	14/15	0.78	0.16	72,109,127,129	0
3	NAG	C	1	14/15	0.84	0.12	69,80,96,108	0
3	NAG	D	1	14/15	0.93	0.09	47,60,82,85	0

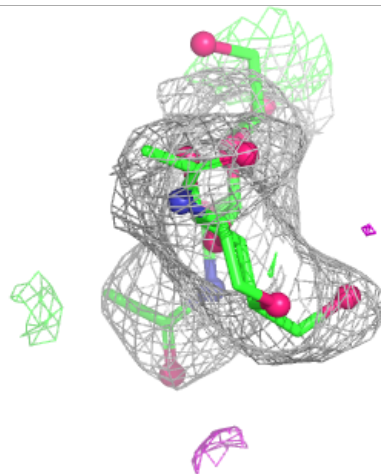
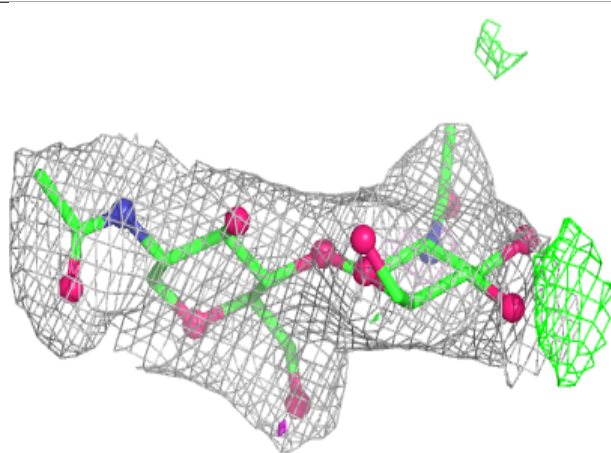
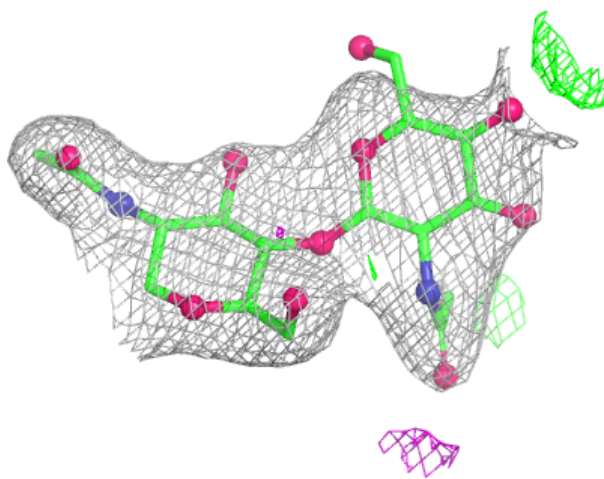
The following is a graphical depiction of the model fit to experimental electron density for oligosac-

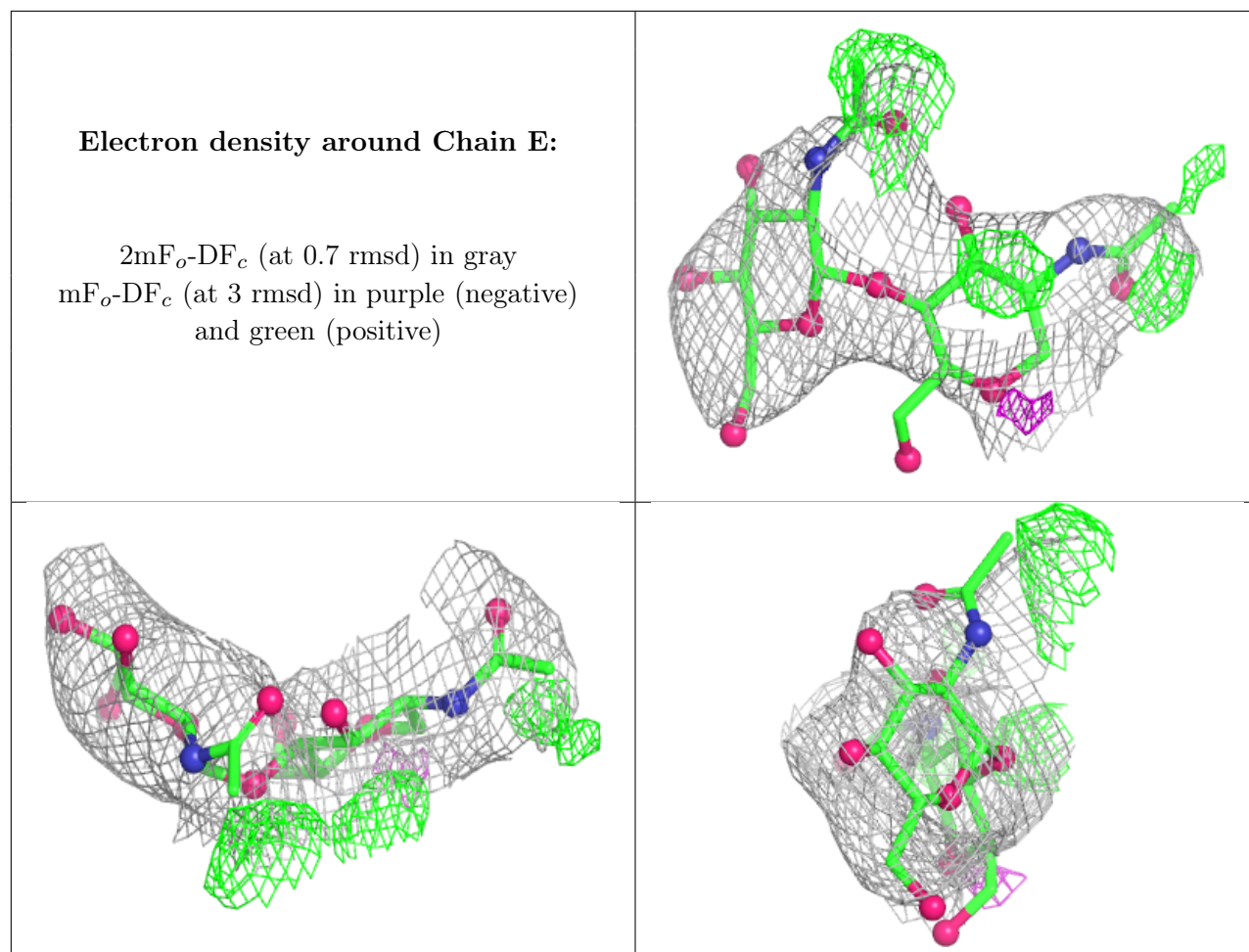
charide. Each fit is shown from different orientation to approximate a three-dimensional view.



Electron density around Chain D:

$2mF_o-DF_c$ (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($\text{\AA}^2$)	Q<0.9
4	NAG	A	507	14/15	0.51	0.25	133,138,154,155	0

6.5 Other polymers [i](#)

There are no such residues in this entry.