



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 06:56 PM UTC

PDB ID : 4MY2 / pdb_00004my2
Title : Crystal Structure of Norrin in fusion with Maltose Binding Protein
Authors : Ke, J.; Jurecky, C.; Chen, C.; Gu, X.; Parker, N.; Williams, B.O.; Melcher, K.; Xu, H.E.
Deposited on : 2013-09-27
Resolution : 2.40 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

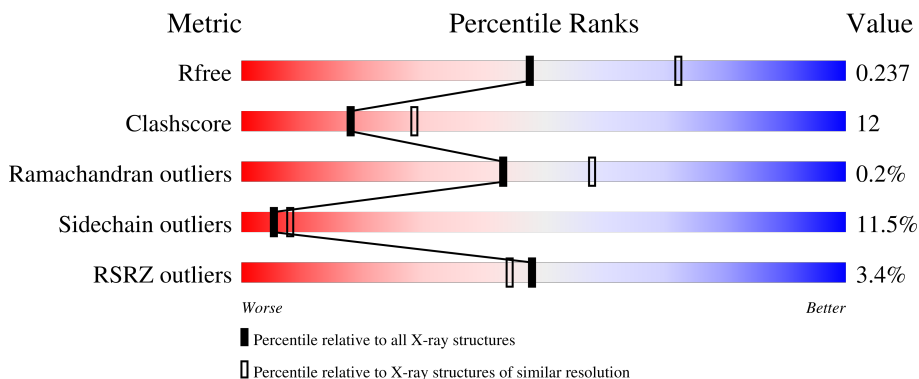
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	477	3% 76% 19% ..
2	B	2	50% 50%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3897 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 Maltose-binding periplasmic protein, Norrin fusion protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	474	3688	2347	623	697	21	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP P0AEY0
A	369	ASN	-	linker	UNP P0AEY0
A	370	ALA	-	linker	UNP P0AEY0
A	371	ALA	-	linker	UNP P0AEY0
A	372	ALA	-	linker	UNP P0AEY0
A	373	GLU	-	linker	UNP P0AEY0

- Molecule 2 is an oligosaccharide called alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
			Total	C	O			
2	B	2	23	12	11	0	0	0

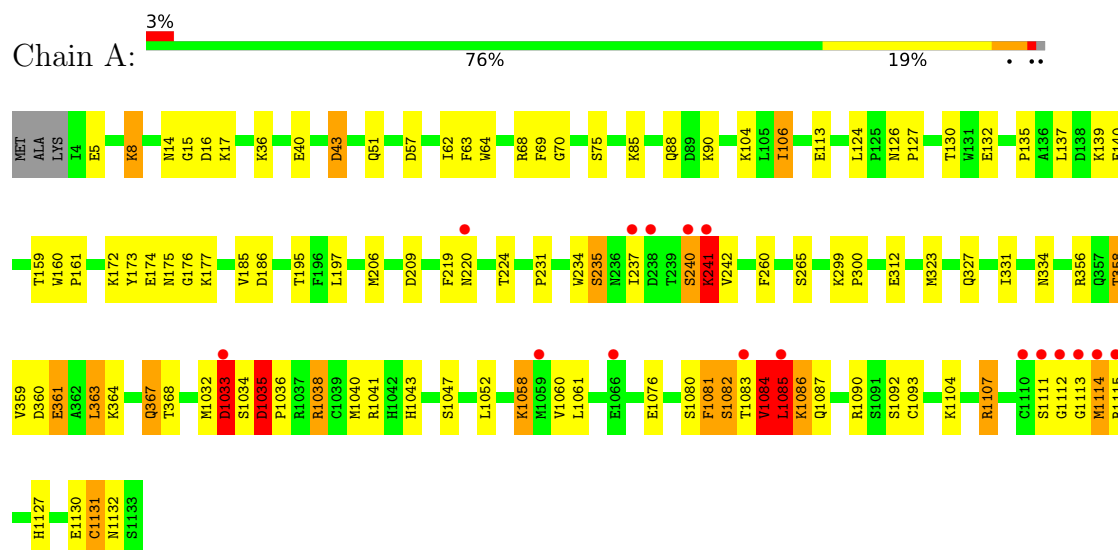
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	186	Total	O	0	0
			186	186		

3 Residue-property plots

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: Maltose-binding periplasmic protein, Norrin fusion protein



- Molecule 2: alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	59.46Å 79.02Å 104.24Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.40 50.00 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (50.00-2.40) 99.9 (50.00-2.40)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.51 (at 2.39Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.207 , 0.237 0.198 , 0.237	Depositor DCC
R_{free} test set	1014 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å ²)	36.7	Xtriage
Anisotropy	0.124	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 36.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3897	wwPDB-VP
Average B, all atoms (Å ²)	41.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.46% 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

5.1 Standard geometry

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

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	0.78	0/3775	1.03	13/5114 (0.3%)

There are no bond length outliers.

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	361	GLU	N-CA-C	-10.02	101.14	113.97
1	A	1083	THR	N-CA-C	-9.38	101.84	113.18
1	A	1087	GLN	N-CA-C	-8.92	98.41	109.65
1	A	127	PRO	CA-C-N	6.82	127.20	119.83
1	A	127	PRO	C-N-CA	6.82	127.20	119.83
1	A	1084	VAL	CB-CA-C	-6.66	102.67	111.13
1	A	1035	ASP	CA-C-N	6.35	126.03	119.56
1	A	1035	ASP	C-N-CA	6.35	126.03	119.56
1	A	1131	CYS	N-CA-C	5.67	117.94	111.02
1	A	1081	PHE	N-CA-C	-5.54	106.44	113.43
1	A	1085	LEU	N-CA-C	-5.25	103.56	110.33
1	A	356	ARG	N-CA-C	5.17	118.37	111.75
1	A	1033	ASP	N-CA-C	-5.14	102.44	110.10

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	3688	0	3639	90	1
2	B	23	0	21	0	0
3	A	186	0	0	8	0
All	All	3897	0	3660	90	1

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 12.

All (90) 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:358:THR:HG22	1:A:359:VAL:O	1.40	1.21
1:A:360:ASP:HA	1:A:363:LEU:HD12	1.22	1.12
1:A:360:ASP:C	1:A:360:ASP:OD1	2.03	1.02
1:A:1082:SER:HB2	1:A:1084:VAL:HG23	1.43	1.00
1:A:172:LYS:HE2	1:A:174:GLU:OE2	1.74	0.87
1:A:359:VAL:O	1:A:360:ASP:CG	2.22	0.83
1:A:70:GLY:HA3	1:A:334:ASN:O	1.80	0.81
1:A:1085:LEU:O	1:A:1086:LYS:HG3	1.83	0.78
1:A:360:ASP:OD1	1:A:361:GLU:N	2.16	0.77
1:A:17:LYS:C	1:A:299:LYS:HD2	2.11	0.76
1:A:360:ASP:HA	1:A:363:LEU:CD1	2.10	0.76
1:A:360:ASP:CA	1:A:363:LEU:HD12	2.10	0.76
1:A:172:LYS:CE	1:A:174:GLU:OE2	2.39	0.69
1:A:299:LYS:HG2	3:A:1476:HOH:O	1.91	0.68
1:A:1093:CYS:N	1:A:1130:GLU:OE2	2.23	0.68
1:A:237:ILE:HA	1:A:240:SER:HB3	1.77	0.66
1:A:299:LYS:HE2	3:A:1476:HOH:O	1.96	0.65
1:A:172:LYS:HE2	1:A:174:GLU:CD	2.21	0.65
1:A:241:LYS:H	1:A:241:LYS:HD2	1.62	0.65
1:A:1076:GLU:OE1	1:A:1090:ARG:NH2	2.32	0.63
1:A:124:LEU:HD21	1:A:137:LEU:HD21	1.81	0.62
1:A:159:THR:HG23	3:A:1437:HOH:O	2.02	0.60
1:A:132:GLU:O	1:A:135:PRO:HD2	2.02	0.59
1:A:172:LYS:NZ	1:A:174:GLU:OE2	2.34	0.59
1:A:1082:SER:HB2	1:A:1084:VAL:CG2	2.26	0.57
1:A:1032:MET:HG2	1:A:1033:ASP:O	2.03	0.57
1:A:1107:ARG:H	1:A:1107:ARG:CD	2.17	0.56
1:A:1082:SER:CB	1:A:1084:VAL:HG23	2.26	0.56
1:A:1081:PHE:N	1:A:1081:PHE:CD1	2.74	0.56
1:A:240:SER:C	1:A:242:VAL:H	2.14	0.56
1:A:241:LYS:H	1:A:241:LYS:CD	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1047:SER:HA	1:A:1058:LYS:O	2.05	0.56
1:A:195:THR:HG23	1:A:359:VAL:HG11	1.86	0.55
1:A:220:ASN:HD21	1:A:237:ILE:HG12	1.71	0.54
1:A:1032:MET:HG2	1:A:1033:ASP:N	2.23	0.53
1:A:219:PHE:HA	1:A:224:THR:HG22	1.91	0.52
1:A:14:ASN:ND2	1:A:16:ASP:OD1	2.40	0.52
1:A:1032:MET:CG	1:A:1033:ASP:N	2.73	0.52
1:A:1043:HIS:HE1	3:A:1342:HOH:O	1.92	0.52
1:A:43:ASP:OD1	1:A:43:ASP:N	2.43	0.51
1:A:323:MET:O	1:A:327:GLN:HG2	2.11	0.51
1:A:63:PHE:HA	1:A:265:SER:O	2.11	0.50
1:A:90:LYS:NZ	3:A:1414:HOH:O	2.43	0.50
1:A:64:TRP:CD1	1:A:68:ARG:HG3	2.45	0.50
1:A:186:ASP:CG	1:A:367:GLN:HG3	2.37	0.50
1:A:175:ASN:HB2	1:A:177:LYS:HE3	1.94	0.49
1:A:231:PRO:HA	1:A:234:TRP:CE2	2.47	0.49
1:A:197:LEU:CD1	1:A:206:MET:HE1	2.42	0.49
1:A:1107:ARG:H	1:A:1107:ARG:HD3	1.76	0.49
1:A:1082:SER:C	1:A:1084:VAL:H	2.20	0.48
1:A:359:VAL:O	1:A:360:ASP:OD1	2.30	0.48
1:A:1114:MET:HE3	1:A:1115:ARG:N	2.30	0.47
1:A:235:SER:HB2	1:A:300:PRO:HD3	1.96	0.47
1:A:1035:ASP:OD1	1:A:1036:PRO:HD2	2.14	0.47
1:A:1041:ARG:NH2	3:A:1469:HOH:O	2.47	0.46
1:A:64:TRP:HB3	1:A:69:PHE:HE1	1.79	0.46
1:A:241:LYS:HD2	1:A:241:LYS:N	2.28	0.46
1:A:14:ASN:ND2	1:A:16:ASP:CG	2.74	0.46
1:A:197:LEU:HD11	1:A:206:MET:HE1	1.97	0.46
1:A:1035:ASP:O	1:A:1038:ARG:HG2	2.16	0.46
1:A:360:ASP:OD1	1:A:360:ASP:O	2.30	0.45
1:A:1085:LEU:HD23	1:A:1085:LEU:N	2.32	0.45
1:A:359:VAL:C	1:A:361:GLU:H	2.25	0.45
1:A:1085:LEU:N	1:A:1085:LEU:CD2	2.80	0.45
1:A:1107:ARG:CD	1:A:1107:ARG:N	2.80	0.45
1:A:367:GLN:HE21	1:A:367:GLN:HB3	1.60	0.44
1:A:237:ILE:CA	1:A:240:SER:HB3	2.46	0.44
1:A:359:VAL:HG12	1:A:360:ASP:N	2.32	0.44
1:A:1107:ARG:HD3	1:A:1107:ARG:N	2.32	0.44
1:A:1114:MET:HE3	1:A:1114:MET:HB3	1.85	0.44
1:A:359:VAL:O	1:A:360:ASP:CB	2.64	0.44
1:A:40:GLU:OE2	3:A:1354:HOH:O	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:160:TRP:N	1:A:161:PRO:CD	2.81	0.44
1:A:220:ASN:ND2	1:A:237:ILE:HG12	2.33	0.43
1:A:1092:SER:HA	1:A:1130:GLU:OE2	2.19	0.43
1:A:240:SER:C	1:A:242:VAL:N	2.77	0.43
1:A:1084:VAL:HG12	1:A:1085:LEU:N	2.34	0.43
1:A:1111:SER:HA	1:A:1112:GLY:HA2	1.68	0.42
1:A:17:LYS:HE3	1:A:113:GLU:OE2	2.19	0.42
1:A:173:TYR:CZ	1:A:176:GLY:HA2	2.55	0.42
1:A:1035:ASP:HA	1:A:1036:PRO:HD3	1.72	0.42
1:A:1082:SER:C	1:A:1084:VAL:N	2.74	0.42
1:A:15:GLY:HA3	3:A:1355:HOH:O	2.19	0.42
1:A:69:PHE:HB3	1:A:106:ILE:HD12	2.02	0.41
1:A:1113:GLY:HA2	1:A:1114:MET:HA	1.73	0.41
1:A:1085:LEU:O	1:A:1086:LYS:CG	2.62	0.41
1:A:1080:SER:CB	1:A:1086:LYS:HE2	2.50	0.41
1:A:237:ILE:C	1:A:240:SER:HB3	2.45	0.41
1:A:5:GLU:CD	1:A:8:LYS:HE2	2.47	0.40
1:A:1036:PRO:HA	1:A:1040:MET:HE1	2.02	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1131:CYS:SG	1:A:1131:CYS:SG[2_465]	2.03	0.17

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	472/477 (99%)	448 (95%)	23 (5%)	1 (0%)	43 58

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	241	LYS

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	391/393 (100%)	346 (88%)	45 (12%)	5 8

All (45) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	LYS
1	A	36	LYS
1	A	43	ASP
1	A	51	GLN
1	A	57	ASP
1	A	62	ILE
1	A	75	SER
1	A	85	LYS
1	A	88	GLN
1	A	104	LYS
1	A	106	ILE
1	A	126	ASN
1	A	130	THR
1	A	139	LYS
1	A	140	GLU
1	A	185	VAL
1	A	209	ASP
1	A	235	SER
1	A	240	SER
1	A	241	LYS
1	A	260	PHE
1	A	312	GLU
1	A	331	ILE
1	A	358	THR
1	A	363	LEU
1	A	364	LYS

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Mol	Chain	Res	Type
1	A	367	GLN
1	A	368	THR
1	A	1033	ASP
1	A	1034	SER
1	A	1035	ASP
1	A	1038	ARG
1	A	1052	LEU
1	A	1058	LYS
1	A	1060	VAL
1	A	1061	LEU
1	A	1082	SER
1	A	1084	VAL
1	A	1085	LEU
1	A	1086	LYS
1	A	1104	LYS
1	A	1107	ARG
1	A	1114	MET
1	A	1127	HIS
1	A	1132	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	102	ASN
1	A	175	ASN
1	A	203	ASN
1	A	220	ASN
1	A	255	GLN
1	A	367	GLN
1	A	369	ASN
1	A	1127	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

2 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	GLC	B	1	2	12,12,12	0.37	0	17,17,17	1.25	2 (11%)
2	GLC	B	2	2	11,11,12	0.45	0	15,15,17	0.79	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GLC	B	1	2	-	2/2/22/22	0/1/1/1
2	GLC	B	2	2	-	1/2/19/22	0/1/1/1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1	GLC	C1-O5-C5	3.67	120.76	113.65
2	B	1	GLC	C1-C2-C3	2.00	114.44	110.36

There are no chirality outliers.

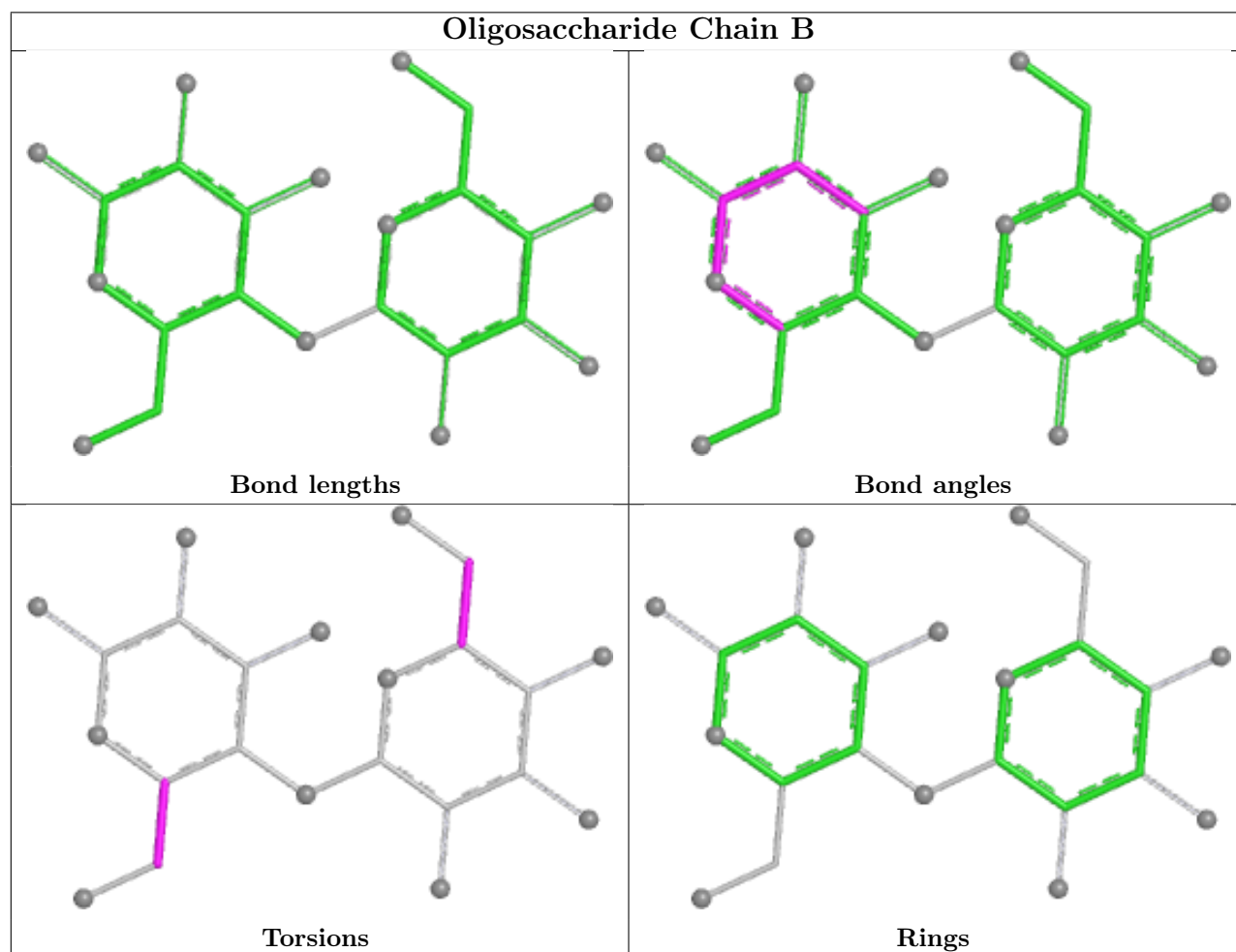
All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1	GLC	C4-C5-C6-O6
2	B	1	GLC	O5-C5-C6-O6
2	B	2	GLC	C4-C5-C6-O6

There are no ring outliers.

No monomer is involved in short contacts.

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



5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

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	474/477 (99%)	0.10	16 (3%) 48 44	20, 39, 66, 110	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1114	MET	5.8
1	A	1113	GLY	5.6
1	A	238	ASP	3.8
1	A	237	ILE	3.2
1	A	240	SER	3.0
1	A	1112	GLY	3.0
1	A	1110	CYS	2.8
1	A	1033	ASP	2.6
1	A	1085	LEU	2.5
1	A	220	ASN	2.5
1	A	1115	ARG	2.5
1	A	1083	THR	2.5
1	A	241	LYS	2.4
1	A	1066	GLU	2.3
1	A	1111	SER	2.2
1	A	1059	MET	2.1

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

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

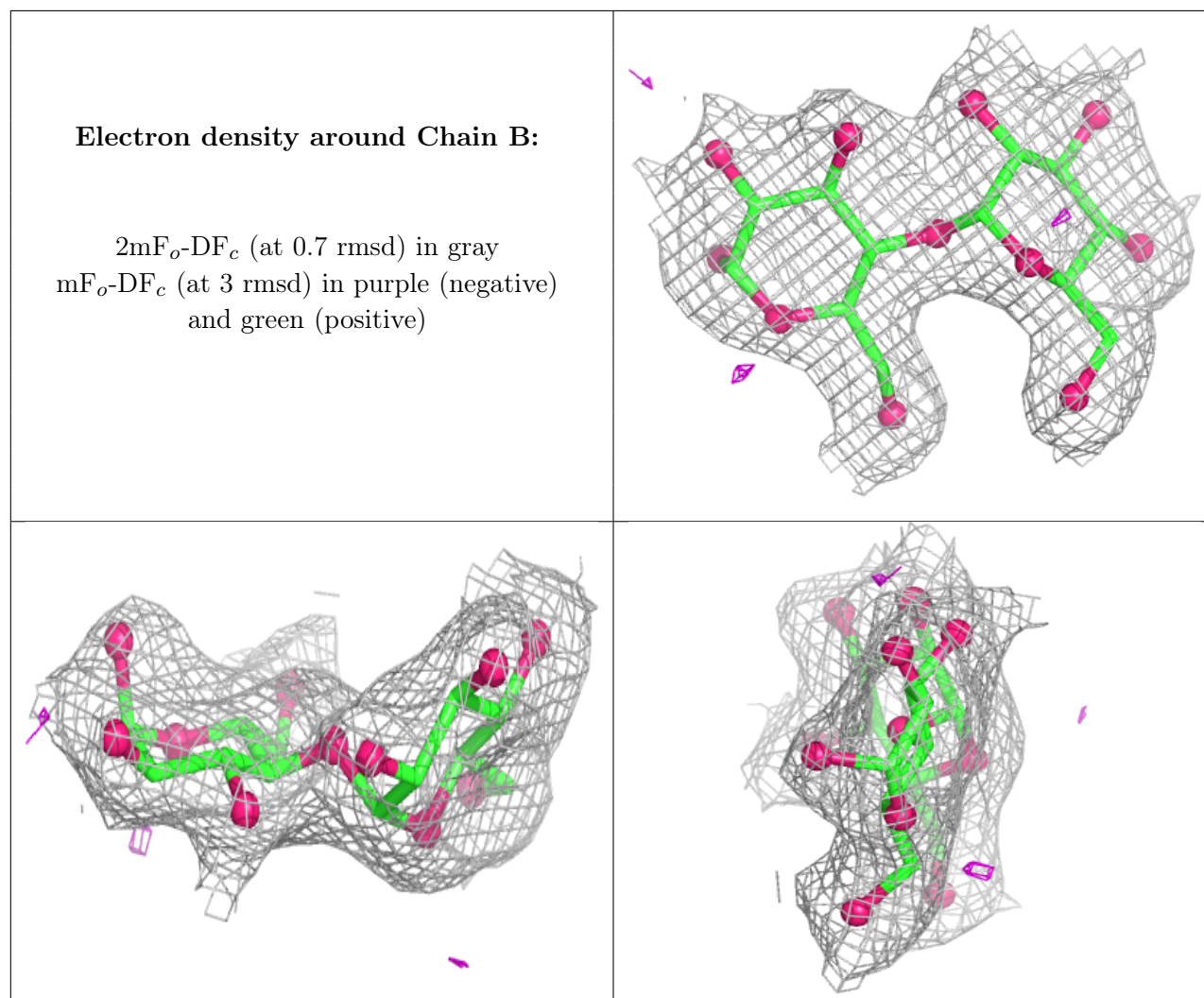
6.3 Carbohydrates ⓘ

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	GLC	B	1	12/12	0.94	0.06	28,30,33,36	0
2	GLC	B	2	11/12	0.97	0.05	24,26,27,27	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.



6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.