



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 26, 2021 – 03:07 pm BST

PDB ID : 7AQX
Title : Co-Crystal Structure of Variant Surface Glycoprotein VSG2 in complex with Nanobody VSG2(NB9)
Authors : Stebbins, C.E.; Hempelmann, A.
Deposited on : 2020-10-23
Resolution : 1.50 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 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 : 2.23.2
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0267
CCP4 : 7.1.010 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.23.2

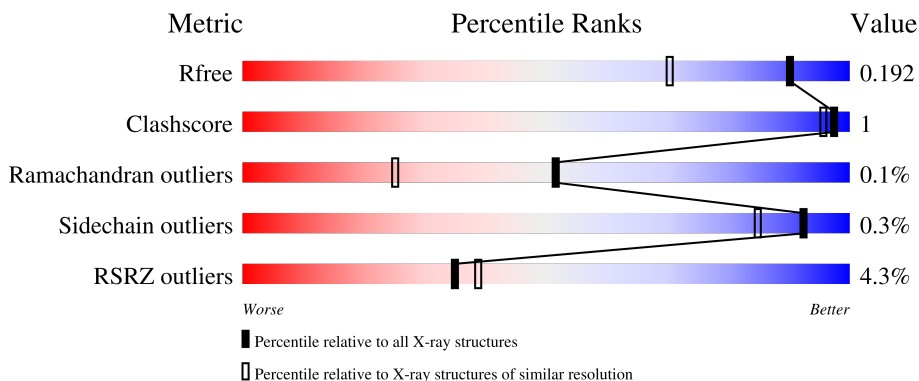
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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	2936 (1.50-1.50)
Clashscore	141614	3144 (1.50-1.50)
Ramachandran outliers	138981	3066 (1.50-1.50)
Sidechain outliers	138945	3064 (1.50-1.50)
RSRZ outliers	127900	2884 (1.50-1.50)

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	364	<div style="display: flex; align-items: center;"> <div style="width: 5%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 94%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">99%</p>
1	B	364	<div style="display: flex; align-items: center;"> <div style="width: 5%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 91%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 2%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 2%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">96%</p>
2	C	142	<div style="display: flex; align-items: center;"> <div style="width: 4%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 78%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 18%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">82% 18%</p>
2	D	142	<div style="display: flex; align-items: center;"> <div style="width: 21%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 47%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 21%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">21% 68% 30%</p>
3	E	3	<div style="display: flex; align-items: center;"> <div style="width: 33%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 34%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 33%; height: 10px; background-color: yellow;"></div> </div> <p style="text-align: center;">33% 67%</p>

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Mol	Chain	Length	Quality of chain
4	F	4	 50% 50%

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 14188 atoms, of which 6417 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.

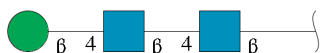
- Molecule 1 is a protein called Variant surface glycoprotein MITAT 1.2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	362	5291	1663	2619	465	534	10	0	3	0
1	B	362	5280	1661	2615	463	531	10	0	2	0

- Molecule 2 is a protein called Nanobody VSG2(NB9).

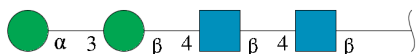
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
2	C	116	1554	519	719	146	167	3	0	0	0
2	D	99	943	325	373	114	129	2	0	0	0

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



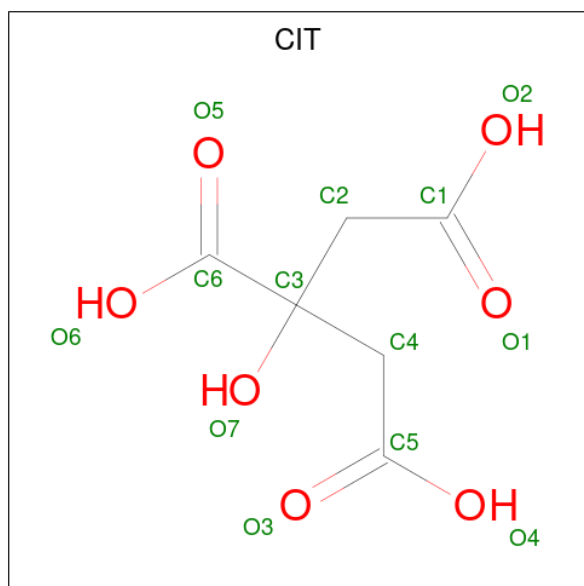
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	H	N	O			
3	E	3	77	22	38	2	15	0	0	0

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



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	H	N	O			
4	F	4	98	28	48	2	20	0	0	0

- Molecule 5 is CITRIC ACID (three-letter code: CIT) (formula: $C_6H_8O_7$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
5	A	1	18	6	5	7	0	0

- Molecule 6 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Na		
6	C	1	1	1	0	0
6	D	1	1	1	0	0

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
7	A	420	420	420	0	0
7	B	385	385	385	0	0
7	C	80	80	80	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	40	Total	O	0	0
			40	40		

MAG1
MAG2
BMA3

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

Chain F:



MAG1
MAG2
BMA3
MAN4

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	94.09Å 95.56Å 123.72Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.78 – 1.50 47.78 – 1.50	Depositor EDS
% Data completeness (in resolution range)	99.2 (47.78-1.50) 99.2 (47.78-1.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.04 (at 1.50Å)	Xtrriage
Refinement program	PHENIX 1.15.2_3472	Depositor
R, R_{free}	0.164 , 0.192 0.164 , 0.192	Depositor DCC
R_{free} test set	8847 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	23.8	Xtrriage
Anisotropy	0.061	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	(Not available) , (Not available)	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.018 for k,h,-l	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	14188	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.42% 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, MAN, CIT, BMA, NA

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	0.32	0/2719	0.52	0/3682
1	B	0.32	0/2713	0.56	1/3675 (0.0%)
2	C	0.30	0/851	0.55	0/1144
2	D	0.28	0/569	0.51	0/749
All	All	0.31	0/6852	0.54	1/9250 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	171	CYS	N-CA-C	-6.88	92.43	111.00

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	2672	2619	2613	2	0
1	B	2665	2615	2601	9	0
2	C	835	719	719	0	0
2	D	570	373	373	1	0
3	E	39	38	34	0	0
4	F	50	48	43	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	13	5	5	0	0
6	C	1	0	0	0	0
6	D	1	0	0	0	0
7	A	420	0	0	1	0
7	B	385	0	0	2	0
7	C	80	0	0	0	0
7	D	40	0	0	0	0
All	All	7771	6417	6388	11	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 1.

All (11) 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:97:HIS:CE1	1:A:297:LYS:HG2	2.35	0.62
1:A:161:LYS:NZ	7:A:505:HOH:O	2.40	0.50
1:B:97:HIS:CE1	1:B:297:LYS:HG2	2.47	0.50
1:B:164:GLY:O	1:B:171:CYS:O	2.31	0.48
1:B:107:GLU:OE2	1:B:111:GLN:NE2	2.45	0.48
1:B:87:ARG:HD2	1:B:338:ILE:CD1	2.43	0.48
1:B:362:GLU:OE1	7:B:401:HOH:O	2.20	0.47
1:B:273:TRP:CZ2	1:B:277:LYS:HE2	2.51	0.45
1:B:327:PHE:CD2	1:B:338:ILE:HG13	2.53	0.43
1:B:87:ARG:HG2	7:B:699:HOH:O	2.20	0.41
1:B:314:SER:O	2:D:107:ARG:NH1	2.44	0.41

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	363/364 (100%)	355 (98%)	8 (2%)	0	100	100
1	B	362/364 (100%)	354 (98%)	8 (2%)	0	100	100
2	C	110/142 (78%)	109 (99%)	1 (1%)	0	100	100
2	D	89/142 (63%)	88 (99%)	0	1 (1%)	14	2
All	All	924/1012 (91%)	906 (98%)	17 (2%)	1 (0%)	51	25

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	92	ALA

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	267/279 (96%)	267 (100%)	0	100	100
1	B	266/279 (95%)	265 (100%)	1 (0%)	91	82
2	C	75/114 (66%)	75 (100%)	0	100	100
2	D	35/114 (31%)	34 (97%)	1 (3%)	42	13
All	All	643/786 (82%)	641 (100%)	2 (0%)	92	85

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	297	LYS
2	D	108	SER

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

Mol	Chain	Res	Type
1	B	59	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](#)

7 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	E	1	3,1	14,14,15	0.28	0	17,19,21	0.61	0
3	NAG	E	2	3	14,14,15	0.74	1 (7%)	17,19,21	0.87	0
3	BMA	E	3	3	11,11,12	1.05	1 (9%)	15,15,17	1.22	1 (6%)
4	NAG	F	1	4,1	14,14,15	0.26	0	17,19,21	0.62	0
4	NAG	F	2	4	14,14,15	0.40	0	17,19,21	0.88	1 (5%)
4	BMA	F	3	4	11,11,12	0.60	0	15,15,17	0.69	0
4	MAN	F	4	4	11,11,12	0.88	0	15,15,17	1.27	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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAG	E	1	3,1	-	0/6/23/26	0/1/1/1
3	NAG	E	2	3	-	0/6/23/26	0/1/1/1
3	BMA	E	3	3	-	2/2/19/22	0/1/1/1
4	NAG	F	1	4,1	-	0/6/23/26	0/1/1/1
4	NAG	F	2	4	-	0/6/23/26	0/1/1/1
4	BMA	F	3	4	-	0/2/19/22	0/1/1/1
4	MAN	F	4	4	-	2/2/19/22	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	2	NAG	O5-C1	-2.67	1.39	1.43
3	E	3	BMA	O5-C5	2.33	1.48	1.43

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	4	MAN	C1-O5-C5	3.75	117.28	112.19
3	E	3	BMA	C1-O5-C5	3.45	116.86	112.19
4	F	2	NAG	C1-O5-C5	2.85	116.05	112.19

There are no chirality outliers.

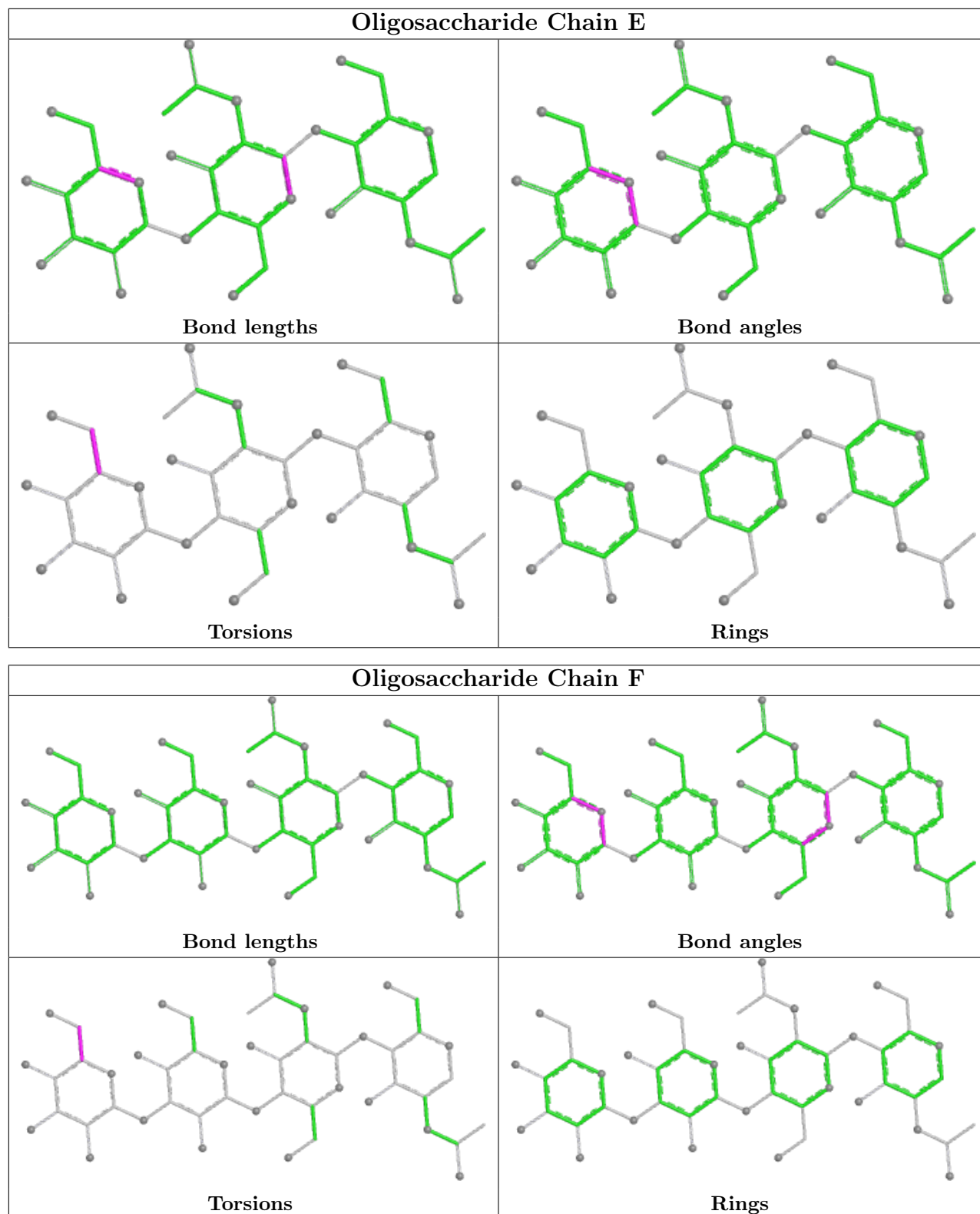
All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	F	4	MAN	C4-C5-C6-O6
3	E	3	BMA	C4-C5-C6-O6
4	F	4	MAN	O5-C5-C6-O6
3	E	3	BMA	O5-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](#)

Of 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 for Mogul analysis.

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
5	CIT	A	401	-	3,12,12	0.98	0	3,17,17	1.74	1 (33%)

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
5	CIT	A	401	-	-	1/6/16/16	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	401	CIT	C3-C2-C1	2.43	118.88	114.98

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	401	CIT	C1-C2-C3-O7

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

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	362/364 (99%)	-0.13	2 (0%) 89 91	17, 25, 41, 64	0
1	B	362/364 (99%)	-0.21	3 (0%) 86 89	18, 26, 46, 75	0
2	C	116/142 (81%)	0.36	5 (4%) 35 39	23, 35, 55, 81	0
2	D	99/142 (69%)	1.62	30 (30%) 0 0	25, 47, 76, 85	0
All	All	939/1012 (92%)	0.08	40 (4%) 35 39	17, 28, 56, 85	0

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	92	ALA	6.0
2	D	68	PHE	4.9
2	D	91	THR	4.5
2	D	7	SER	4.2
2	D	83	MET	4.1
2	D	116	GLY	4.1
2	D	95	TYR	4.0
2	D	84	ASN	3.6
2	D	22	CYS	3.6
2	D	96	CYS	3.5
2	C	61	ALA	3.5
2	D	85	SER	3.2
2	D	94	TYR	3.2
1	A	92	VAL	3.1
2	D	66	GLY	3.1
2	D	93	VAL	3.1
2	D	18	LEU	3.0
2	D	86	LEU	3.0
2	D	48	VAL	3.0
1	B	263	GLY	2.9
2	D	47	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
2	C	62	ASP	2.5
2	D	117	THR	2.4
2	C	86	LEU	2.4
2	D	81	LEU	2.4
2	D	8	GLY	2.4
2	D	58	THR	2.3
2	D	115	GLN	2.3
2	D	110	TYR	2.2
2	D	60	TYR	2.2
2	D	56	GLY	2.1
1	A	315	GLU	2.1
2	D	53	TRP	2.1
2	D	113	TRP	2.1
2	D	20	LEU	2.1
2	C	60	TYR	2.1
1	B	171	CYS	2.1
2	C	18	LEU	2.0
2	D	51	ILE	2.0
1	B	292	ALA	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.

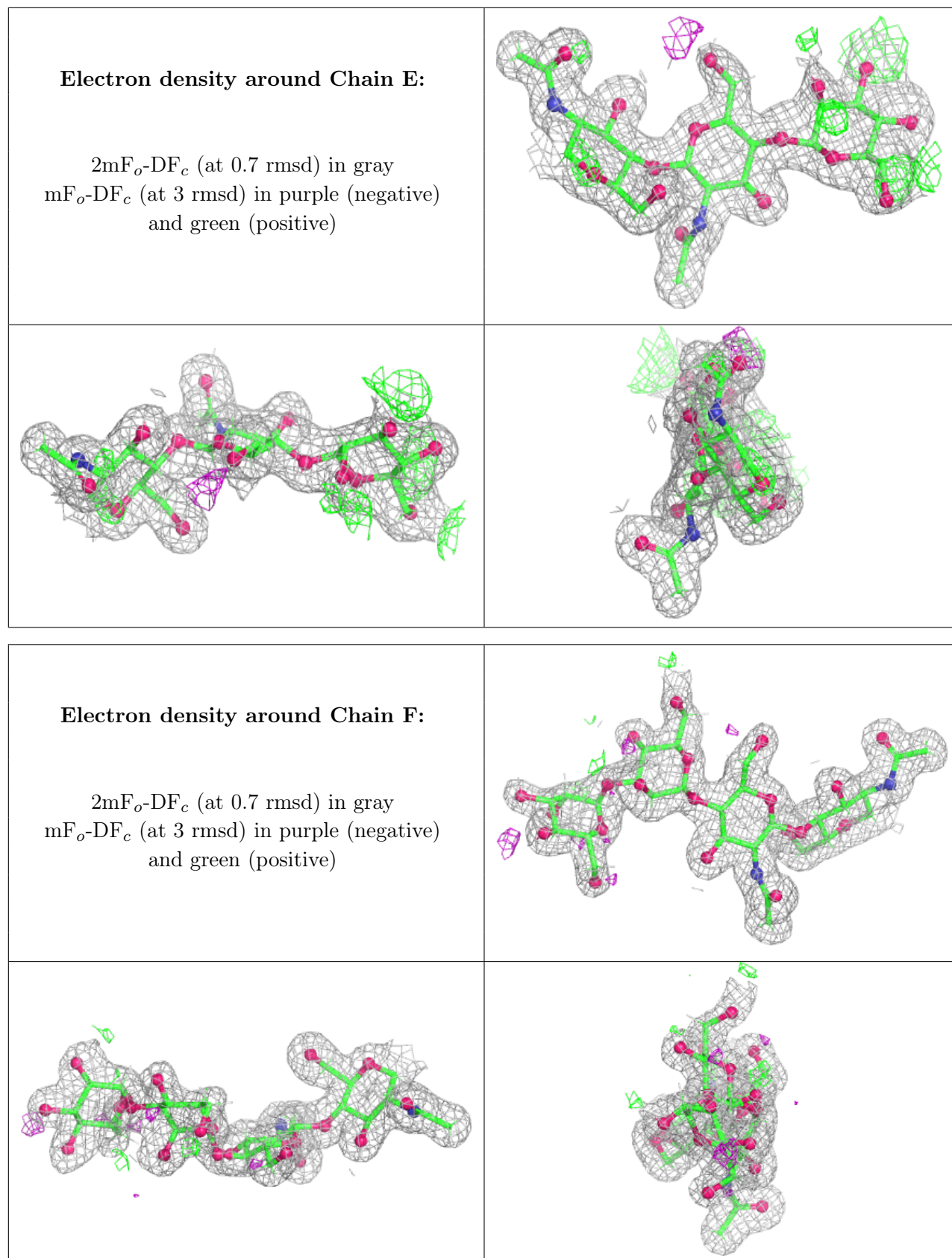
6.3 Carbohydrates [i](#)

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
4	BMA	F	3	11/12	0.80	0.18	31,46,55,66	0
4	MAN	F	4	11/12	0.82	0.22	38,50,59,67	0
3	BMA	E	3	11/12	0.83	0.11	36,52,65,68	0
3	NAG	E	2	14/15	0.95	0.08	25,30,49,66	0
4	NAG	F	2	14/15	0.95	0.07	25,30,46,56	0
4	NAG	F	1	14/15	0.96	0.06	25,28,31,34	0
3	NAG	E	1	14/15	0.97	0.10	25,30,31,32	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.



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
5	CIT	A	401	13/13	0.73	0.23	33,54,66,80	0
6	NA	C	201	1/1	0.98	0.11	30,30,30,30	0
6	NA	D	201	1/1	0.98	0.05	30,30,30,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.