



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 04:29 PM UTC

PDB ID : 7MZG / pdb_00007mzg
Title : SARS-CoV-2 receptor binding domain bound to Fab PDI 42
Authors : Pymm, P.; Chan, L.J.; Dietrich, M.H.; Tan, L.L.; Tham, W.H.
Deposited on : 2021-05-24
Resolution : 2.00 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

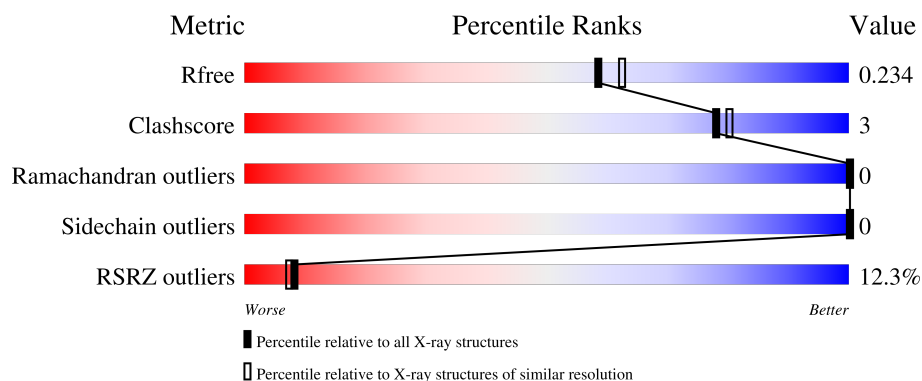
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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	H	220	4% 95% 5%
2	L	216	18% 94% 6%
3	A	205	15% 86% 9% 5%
4	B	3	100%

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 5227 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 PDI 42 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	H	218	Total	C	N	O	S	0	0	0
			1595	1003	266	318	8			

- Molecule 2 is a protein called PDI 42 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	215	Total	C	N	O	S	0	0	0
			1606	1008	263	330	5			

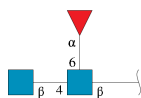
- Molecule 3 is a protein called Spike protein S1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	A	194	Total	C	N	O	S	0	0	0
			1496	958	248	282	8			

There are 8 discrepancies between the modelled and reference sequences:

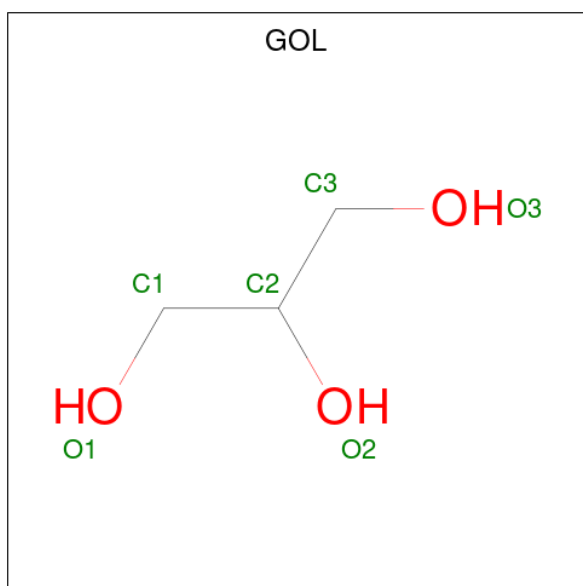
Chain	Residue	Modelled	Actual	Comment	Reference
A	528	GLY	-	expression tag	UNP P0DTC2
A	529	SER	-	expression tag	UNP P0DTC2
A	530	HIS	-	expression tag	UNP P0DTC2
A	531	HIS	-	expression tag	UNP P0DTC2
A	532	HIS	-	expression tag	UNP P0DTC2
A	533	HIS	-	expression tag	UNP P0DTC2
A	534	HIS	-	expression tag	UNP P0DTC2
A	535	HIS	-	expression tag	UNP P0DTC2

- Molecule 4 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	B	3	Total	C	N	O	0	0	0
			38	22	2	14			

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	H	1	Total	C	O	0	0
			6	3	3		
5	L	1	Total	C	O	0	0
			6	3	3		
5	L	1	Total	C	O	0	0
			6	3	3		
5	L	1	Total	C	O	0	0
			6	3	3		
5	A	1	Total	C	O	0	0
			6	3	3		
5	A	1	Total	C	O	0	0
			6	3	3		

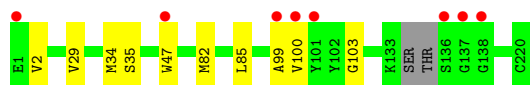
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	H	224	Total 224	O 224	0	0
6	L	154	Total 154	O 154	0	0
6	A	78	Total 78	O 78	0	0

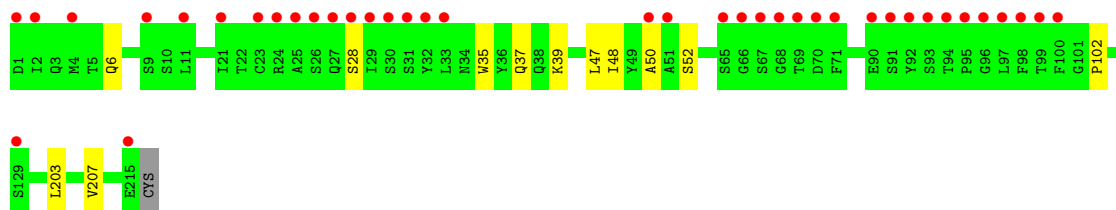
3 Residue-property plots [i](#)

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.

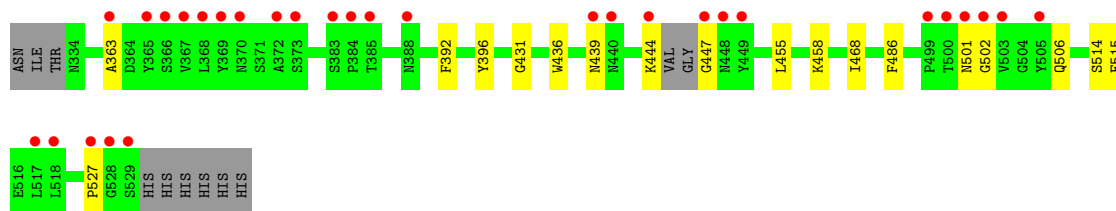
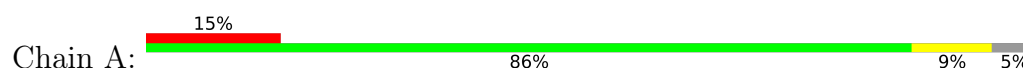
- Molecule 1: PDI 42 heavy chain



- Molecule 2: PDI 42 light chain



- Molecule 3: Spike protein S1



- Molecule 4: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	82.27Å 150.77Å 145.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.87 – 2.00 40.87 – 2.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (40.87-2.00) 100.0 (40.87-2.00)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.19 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.15_3459	Depositor
R, R_{free}	0.200 , 0.236 (Not available) , 0.234	Depositor DCC
R_{free} test set	3074 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	38.3	Xtriage
Anisotropy	0.315	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 42.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.009 for 1/2*h-1/2*k,-3/2*h-1/2*k,-l 0.018 for 1/2*h+1/2*k,3/2*h-1/2*k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5227	wwPDB-VP
Average B, all atoms (Å ²)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.05% 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: GOL, NAG, FUC

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	H	0.16	0/1631	0.38	0/2227
2	L	0.14	0/1641	0.39	0/2237
3	A	0.13	0/1537	0.32	0/2093
All	All	0.14	0/4809	0.36	0/6557

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

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	H	1595	0	1532	7	0
2	L	1606	0	1512	7	0
3	A	1496	0	1380	15	0
4	B	38	0	34	0	0
5	A	12	0	16	1	0
5	H	6	0	8	0	0
5	L	18	0	24	0	0
6	A	78	0	0	2	0
6	H	224	0	0	0	0
6	L	154	0	0	1	0
All	All	5227	0	4506	26	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.

All (26) 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:H:100:VAL:HG22	3:A:455:LEU:HD21	1.71	0.70
1:H:82:MET:HE2	1:H:85:LEU:HD21	1.81	0.63
3:A:458:LYS:NZ	6:A:702:HOH:O	2.38	0.57
2:L:37:GLN:HB2	2:L:47:LEU:HD11	1.86	0.56
3:A:468:ILE:C	3:A:468:ILE:HD12	2.33	0.54
1:H:99:ALA:O	1:H:103:GLY:N	2.41	0.54
3:A:444:LYS:O	3:A:447:GLY:N	2.40	0.54
1:H:29:VAL:HG13	1:H:34:MET:HG3	1.94	0.50
2:L:39:LYS:NZ	6:L:407:HOH:O	2.45	0.49
2:L:35:TRP:HB2	2:L:48:ILE:HB	1.95	0.47
3:A:468:ILE:C	3:A:468:ILE:CD1	2.89	0.46
3:A:431:GLY:HA2	3:A:515:PHE:CD2	2.52	0.45
3:A:439:ASN:HD22	3:A:506:GLN:CD	2.25	0.44
3:A:502:GLY:O	3:A:506:GLN:HG3	2.18	0.44
3:A:436:TRP:CD1	5:A:602:GOL:H11	2.53	0.43
2:L:6:GLN:HG3	2:L:102:PRO:HD2	2.00	0.42
2:L:28:SER:HB3	3:A:501:ASN:OD1	2.19	0.42
1:H:35:SER:HG	1:H:47:TRP:HZ2	1.61	0.42
3:A:396:TYR:HB2	3:A:514:SER:OG	2.19	0.42
3:A:392:PHE:CD1	3:A:515:PHE:HB3	2.54	0.42
2:L:203:LEU:HD13	2:L:207:VAL:HG23	2.02	0.42
1:H:35:SER:OG	1:H:47:TRP:NE1	2.50	0.41
2:L:50:ALA:O	2:L:52:SER:N	2.53	0.41
3:A:363:ALA:O	3:A:527:PRO:HD3	2.21	0.41
3:A:458:LYS:HE2	6:A:775:HOH:O	2.20	0.41
1:H:2:VAL:HG11	3:A:486:PHE:HZ	1.87	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	H	214/220 (97%)	211 (99%)	3 (1%)	0	100	100
2	L	213/216 (99%)	205 (96%)	8 (4%)	0	100	100
3	A	190/205 (93%)	183 (96%)	7 (4%)	0	100	100
All	All	617/641 (96%)	599 (97%)	18 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	175/184 (95%)	175 (100%)	0	100	100
2	L	176/190 (93%)	176 (100%)	0	100	100
3	A	157/177 (89%)	157 (100%)	0	100	100
All	All	508/551 (92%)	508 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	81	GLN
2	L	3	GLN
3	A	439	ASN

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 ⓘ

3 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	$\# Z > 2$
4	NAG	B	1	3,4	14,14,15	0.40	0	17,19,21	0.45	0
4	NAG	B	2	4	14,14,15	0.26	0	17,19,21	0.42	0
4	FUC	B	3	4	10,10,11	0.70	0	14,14,16	0.77	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	B	1	3,4	-	0/6/23/26	0/1/1/1
4	NAG	B	2	4	-	0/6/23/26	0/1/1/1
4	FUC	B	3	4	-	-	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

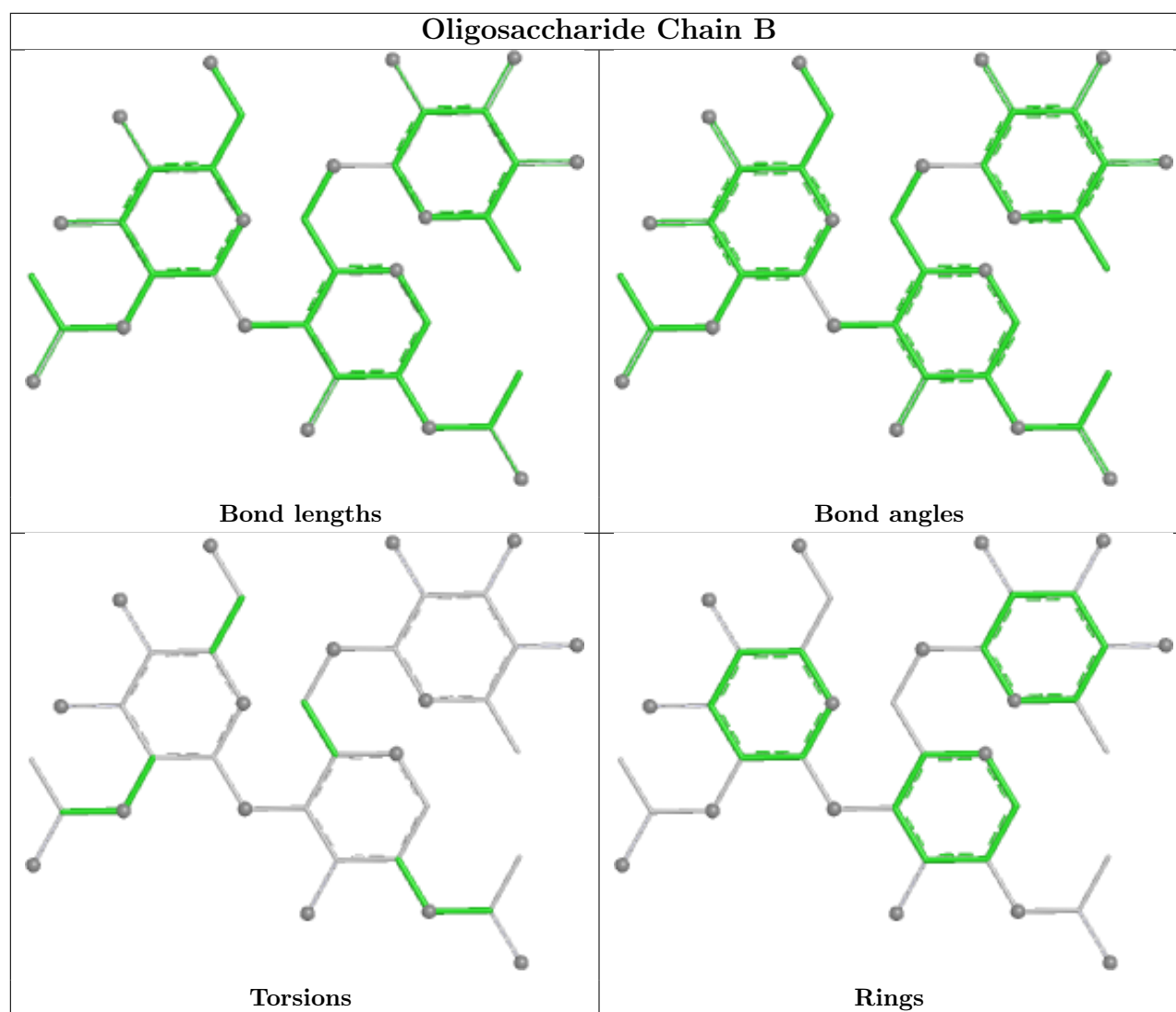
There are no chirality outliers.

There are no torsion outliers.

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](#)

6 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	$\# Z > 2$
5	GOL	A	602	-	5,5,5	0.92	0	5,5,5	1.09	0
5	GOL	A	601	-	5,5,5	0.83	0	5,5,5	1.16	0
5	GOL	L	302	-	5,5,5	0.89	0	5,5,5	1.14	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	GOL	L	301	-	5,5,5	0.93	0	5,5,5	1.00	0
5	GOL	H	301	-	5,5,5	1.00	0	5,5,5	1.05	0
5	GOL	L	303	-	5,5,5	0.93	0	5,5,5	1.10	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
5	GOL	A	602	-	-	2/4/4/4	-
5	GOL	A	601	-	-	2/4/4/4	-
5	GOL	L	302	-	-	2/4/4/4	-
5	GOL	L	301	-	-	0/4/4/4	-
5	GOL	H	301	-	-	2/4/4/4	-
5	GOL	L	303	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	L	302	GOL	O1-C1-C2-C3
5	L	303	GOL	O1-C1-C2-C3
5	L	303	GOL	C1-C2-C3-O3
5	A	601	GOL	C1-C2-C3-O3
5	A	602	GOL	O1-C1-C2-C3
5	H	301	GOL	C1-C2-C3-O3
5	L	302	GOL	O1-C1-C2-O2
5	L	303	GOL	O1-C1-C2-O2
5	L	303	GOL	O2-C2-C3-O3
5	A	602	GOL	O1-C1-C2-O2
5	A	601	GOL	O2-C2-C3-O3
5	H	301	GOL	O2-C2-C3-O3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	602	GOL	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

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	H	218/220 (99%)	0.10	8 (3%) 45 44	25, 35, 52, 82	0
2	L	215/216 (99%)	0.77	39 (18%) 3 3	26, 42, 70, 80	0
3	A	194/205 (94%)	0.87	30 (15%) 5 4	31, 46, 79, 90	0
All	All	627/641 (97%)	0.57	77 (12%) 8 7	25, 40, 71, 90	0

All (77) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	L	94	THR	6.3
3	A	367	VAL	6.2
2	L	25	ALA	5.9
3	A	366	SER	5.7
2	L	95	PRO	5.2
2	L	2	ILE	5.2
1	H	137	GLY	5.1
1	H	100	VAL	4.3
2	L	67	SER	4.3
2	L	30	SER	4.2
3	A	503	VAL	4.2
2	L	33	LEU	4.1
2	L	71	PHE	4.1
3	A	369	TYR	4.1
2	L	29	ILE	4.0
2	L	4	MET	4.0
3	A	368	LEU	4.0
2	L	92	TYR	4.0
3	A	370	ASN	4.0
2	L	69	THR	3.9
2	L	99	THR	3.9
2	L	32	TYR	3.8
2	L	31	SER	3.7

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Mol	Chain	Res	Type	RSRZ
2	L	98	PHE	3.7
2	L	93	SER	3.6
3	A	449	TYR	3.6
3	A	385	THR	3.6
2	L	24	ARG	3.5
2	L	28	SER	3.5
1	H	136	SER	3.5
3	A	444	LYS	3.5
3	A	447	GLY	3.4
2	L	96	GLY	3.4
3	A	372	ALA	3.3
1	H	99	ALA	3.2
2	L	68	GLY	3.2
2	L	26	SER	3.1
2	L	97	LEU	3.1
2	L	23	CYS	3.0
2	L	27	GLN	3.0
3	A	373	SER	3.0
3	A	518	LEU	3.0
1	H	47	TRP	3.0
2	L	100	PHE	2.9
3	A	440	ASN	2.9
3	A	384	PRO	2.9
3	A	502	GLY	2.9
1	H	101	TYR	2.8
3	A	499	PRO	2.8
2	L	91	SER	2.8
3	A	528	GLY	2.8
3	A	505	TYR	2.8
3	A	501	ASN	2.7
3	A	529	SER	2.7
2	L	1	ASP	2.7
2	L	51	ALA	2.6
2	L	21	ILE	2.6
3	A	448	ASN	2.6
2	L	70	ASP	2.6
2	L	11	LEU	2.6
3	A	439	ASN	2.3
2	L	66	GLY	2.3
2	L	90	GLU	2.3
2	L	65	SER	2.3
2	L	215	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
2	L	9	SER	2.2
3	A	517	LEU	2.2
1	H	1	GLU	2.2
3	A	527	PRO	2.2
3	A	363	ALA	2.2
3	A	365	TYR	2.2
3	A	500	THR	2.2
1	H	138	GLY	2.1
2	L	50	ALA	2.1
3	A	383	SER	2.1
3	A	388	ASN	2.0
2	L	129	SER	2.0

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

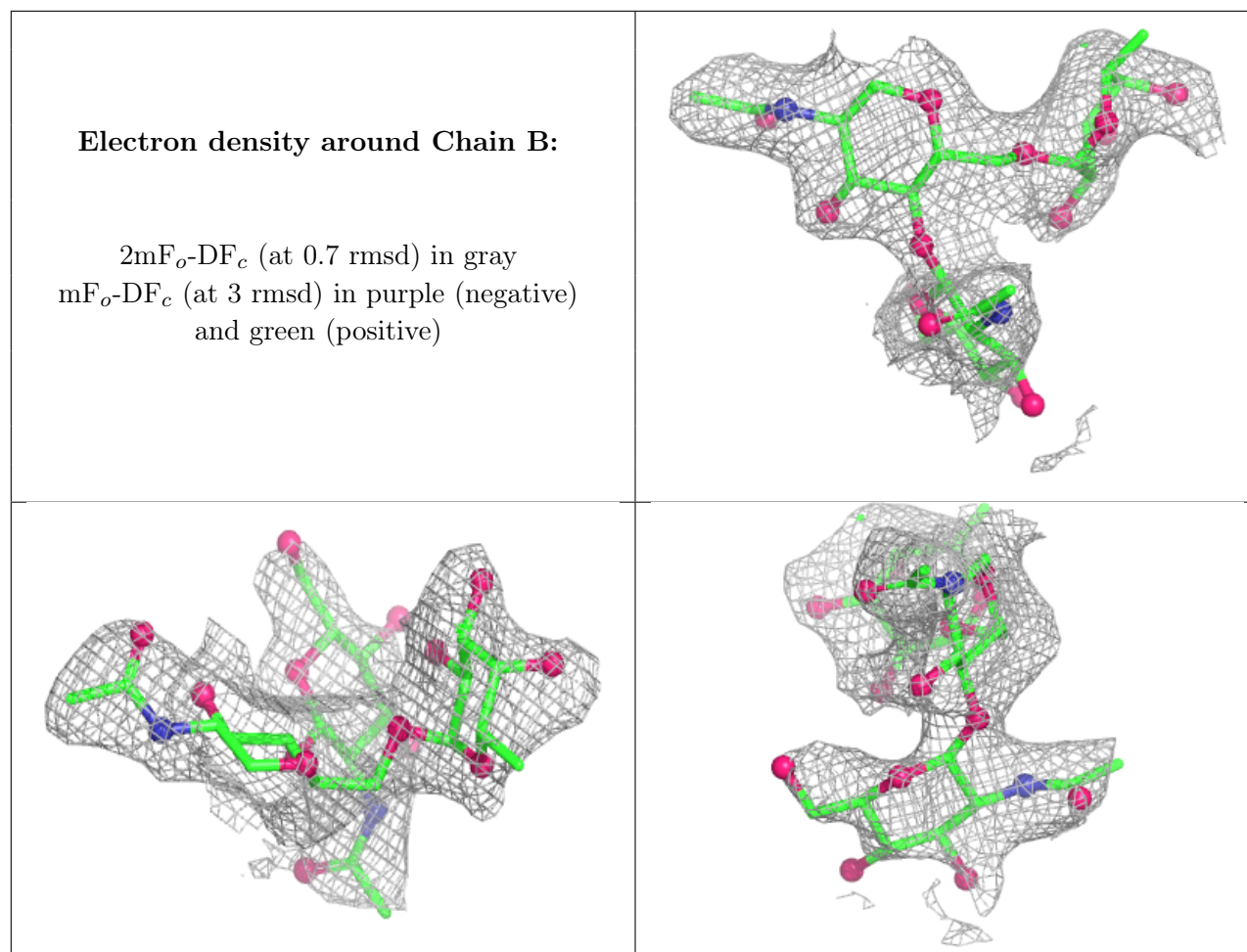
There are no non-standard protein/DNA/RNA residues in this entry.

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	NAG	B	1	14/15	-	-	57,77,90,96	0
4	NAG	B	2	14/15	-	-	90,102,113,114	0
4	FUC	B	3	10/11	-	-	84,90,96,97	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](#)

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	GOL	H	301	6/6	0.79	0.14	51,57,65,66	0
5	GOL	L	301	6/6	0.82	0.16	49,59,67,71	0
5	GOL	A	601	6/6	0.85	0.16	44,58,59,66	0
5	GOL	A	602	6/6	0.85	0.13	63,67,70,72	0
5	GOL	L	302	6/6	0.90	0.13	39,45,50,56	0
5	GOL	L	303	6/6	0.91	0.14	32,39,44,53	0

6.5 Other polymers [i](#)

There are no such residues in this entry.