



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 09:56 AM UTC

PDB ID : 1M7D / pdb_00001m7d
Title : Crystal structure of a Monoclonal Fab Specific for Shigella flexneri Y Lipopolysaccharide complexed with a trisaccharide
Authors : Vyas, N.K.; Vyas, M.N.; Chervenak, M.C.; Johnson, M.A.; Pinto, B.M.; Bundle, D.R.; Quiocho, F.A.
Deposited on : 2002-07-19
Resolution : 2.30 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)	:	NOT EXECUTED
EDS	:	NOT EXECUTED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

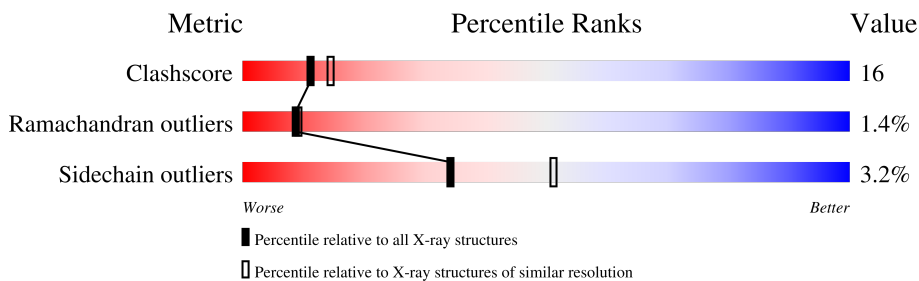
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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))
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)

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 $\leq 5\%$.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	215	72% 26% .
2	B	220	66% 29% 5%
3	C	3	67% 33%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3478 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.

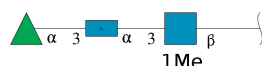
- Molecule 1 is a protein called light chain of the monoclonal antibody Fab SYA/J6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	215	Total	C	N	O	S	0	0	0
			1668	1043	286	334	5			

- Molecule 2 is a protein called heavy chain of the monoclonal antibody Fab SYA/J6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	220	Total	C	N	O	S	0	0	0
			1654	1042	274	329	9			

- Molecule 3 is an oligosaccharide called alpha-L-rhamnopyranose-(1-3)-alpha-L-Olivopyranose-(1-3)-methyl 2-acetamido-2-deoxy-beta-D-glucopyranoside.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	C	3	Total	C	N	O	0	0	0
			35	21	1	13			

- Molecule 4 is water.

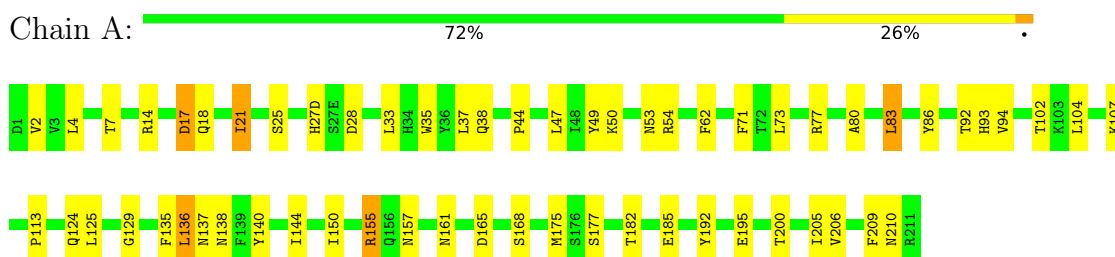
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	62	Total	O	0	0
			62	62		
4	B	59	Total	O	0	0
			59	59		

3 Residue-property plots

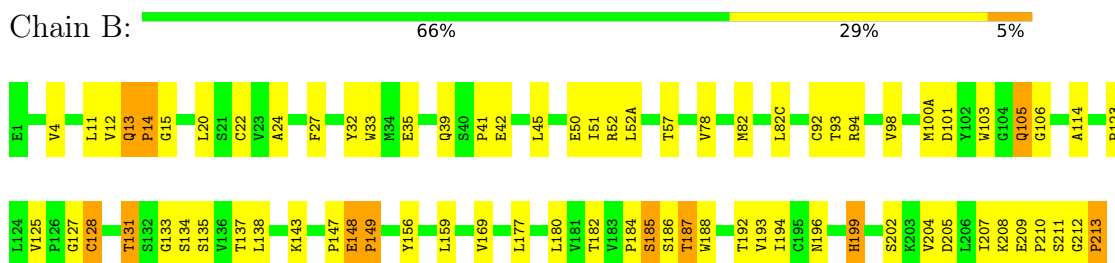
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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. 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.

Note EDS was not executed.

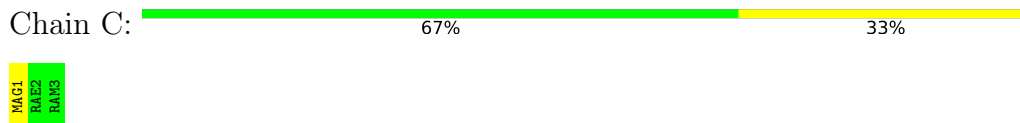
- Molecule 1: light chain of the monoclonal antibody Fab SYA/J6



- Molecule 2: heavy chain of the monoclonal antibody Fab SYA/J6



- Molecule 3: alpha-L-rhamnopyranose-(1-3)-alpha-L-Olivopyranose-(1-3)-methyl 2-acetamido-2-deoxy-beta-D-glucopyranoside



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	71.00Å 71.00Å 198.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.98 – 2.30	Depositor
% Data completeness (in resolution range)	76.6 (19.98-2.30)	Depositor
R_{merge}	0.07	Depositor
R_{sym}	0.06	Depositor
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.216 , 0.279	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	3478	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: RAE, MAG, RAM

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	0.43	0/1706	0.97	6/2316 (0.3%)
2	B	1.96	2/1693 (0.1%)	1.43	14/2303 (0.6%)
All	All	1.42	2/3399 (0.1%)	1.22	20/4619 (0.4%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	14	PRO	C-N	-78.41	0.19	1.33
2	B	13	GLN	C-N	-5.44	1.21	1.33

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	14	PRO	CA-C-N	-34.39	54.01	121.41
2	B	14	PRO	C-N-CA	-34.39	54.01	121.41
2	B	13	GLN	O-C-N	-11.96	104.34	120.96
2	B	13	GLN	CA-C-N	7.60	129.34	119.84
2	B	13	GLN	C-N-CA	7.60	129.34	119.84
2	B	148	GLU	N-CA-C	-6.85	101.19	110.36
1	A	182	THR	N-CA-C	-6.66	100.62	110.48
2	B	14	PRO	O-C-N	-6.60	113.73	122.64
2	B	101	ASP	N-CA-C	6.54	119.74	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	125	LEU	N-CA-C	6.03	118.63	111.33
1	A	165	ASP	N-CA-C	-5.80	103.05	110.53
2	B	32	TYR	N-CA-C	5.68	118.47	109.50
1	A	138	ASN	N-CA-C	5.33	118.60	111.24
1	A	92	THR	N-CA-C	-5.24	105.24	111.69
1	A	185	GLU	N-CA-C	-5.21	105.60	111.28
2	B	52(A)	LEU	N-CA-C	5.20	118.13	110.59
2	B	192	THR	N-CA-C	5.15	117.13	109.25
2	B	205	ASP	N-CA-C	-5.09	100.00	108.34
2	B	199	HIS	CA-C-N	5.07	124.51	119.24
2	B	199	HIS	C-N-CA	5.07	124.51	119.24

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	14	PRO	Peptide,Mainchain

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	1668	0	1621	41	0
2	B	1654	0	1604	72	0
3	C	35	0	35	1	0
4	A	62	0	0	1	0
4	B	59	0	0	3	0
All	All	3478	0	3260	107	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 16.

All (107) 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)
2:B:131:THR:HG21	4:B:214:HOH:O	1.54	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:134:SER:O	2:B:182:THR:CG2	2.19	0.89
2:B:134:SER:C	2:B:135:SER:N	2.32	0.88
2:B:134:SER:O	2:B:182:THR:HG21	1.81	0.80
2:B:211:SER:C	2:B:213:PRO:HD2	2.07	0.79
2:B:125:VAL:O	2:B:127:GLY:N	2.12	0.78
2:B:194:ILE:HD12	2:B:207:ILE:HG23	1.65	0.77
1:A:195:GLU:HG2	1:A:206:VAL:HG22	1.67	0.76
2:B:135:SER:HB2	2:B:185:SER:H	1.50	0.76
2:B:156:TYR:H	2:B:196:ASN:HD21	1.34	0.75
2:B:193:VAL:O	2:B:210:PRO:HD2	1.89	0.72
1:A:150:ILE:HD12	1:A:155:ARG:HG3	1.71	0.71
1:A:21:ILE:HD13	1:A:102:THR:HB	1.72	0.70
2:B:82:MET:HB3	2:B:82(C):LEU:HD21	1.73	0.69
2:B:212:GLY:N	2:B:213:PRO:HD2	2.06	0.69
2:B:35:GLU:OE2	2:B:50:GLU:HB2	1.92	0.69
2:B:148:GLU:HG2	2:B:149:PRO:HA	1.74	0.68
1:A:136:LEU:HD12	1:A:136:LEU:N	2.10	0.66
2:B:39:GLN:HB2	2:B:45:LEU:HD23	1.79	0.64
2:B:135:SER:HB2	2:B:185:SER:N	2.12	0.64
1:A:113:PRO:HG2	1:A:205:ILE:HD12	1.79	0.63
1:A:21:ILE:HD12	1:A:86:TYR:HB2	1.81	0.62
2:B:123:PRO:HD3	2:B:208:LYS:HE2	1.82	0.61
1:A:136:LEU:HD13	1:A:175:MET:SD	2.41	0.61
2:B:211:SER:HB3	2:B:213:PRO:HD2	1.82	0.60
2:B:147:PRO:O	2:B:199:HIS:HE1	1.85	0.60
2:B:125:VAL:O	2:B:127:GLY:CA	2.50	0.59
2:B:137:THR:C	2:B:138:LEU:HD12	2.28	0.59
1:A:135:PHE:CE2	1:A:137:ASN:HB2	2.39	0.58
2:B:199:HIS:HB3	2:B:204:VAL:HG22	1.86	0.58
1:A:209:PHE:C	1:A:210:ASN:HD22	2.13	0.56
1:A:37:LEU:HB2	1:A:47:LEU:HD11	1.87	0.55
2:B:94:ARG:O	2:B:100(A):MET:HA	2.06	0.55
2:B:22:CYS:HB3	2:B:78:VAL:HG13	1.89	0.55
2:B:199:HIS:HD2	2:B:202:SER:OG	1.89	0.55
2:B:156:TYR:H	2:B:196:ASN:ND2	2.01	0.55
2:B:184:PRO:HB2	2:B:187:THR:HG23	1.90	0.54
2:B:20:LEU:HG	2:B:82:MET:HE2	1.89	0.54
2:B:33:TRP:CZ2	2:B:52:ARG:HD3	2.43	0.54
1:A:49:TYR:CD1	2:B:98:VAL:HB	2.43	0.54
2:B:134:SER:O	2:B:135:SER:N	2.40	0.54
2:B:135:SER:CB	2:B:185:SER:H	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:21:ILE:HD13	1:A:102:THR:CB	2.37	0.53
2:B:134:SER:O	2:B:182:THR:HG23	2.07	0.53
2:B:15:GLY:HA2	2:B:82(C):LEU:O	2.08	0.53
1:A:54:ARG:HD3	1:A:62:PHE:O	2.10	0.52
1:A:37:LEU:HD12	1:A:38:GLN:N	2.24	0.52
2:B:138:LEU:HD12	2:B:138:LEU:N	2.26	0.52
1:A:4:LEU:CD2	1:A:25:SER:HB3	2.40	0.51
2:B:125:VAL:O	2:B:127:GLY:HA2	2.11	0.51
1:A:44:PRO:HG2	2:B:103:TRP:CE3	2.46	0.51
2:B:212:GLY:O	2:B:213:PRO:C	2.54	0.51
2:B:22:CYS:CB	2:B:92:CYS:SG	2.99	0.50
2:B:105:GLN:NE2	2:B:106:GLY:O	2.45	0.50
2:B:194:ILE:HG22	2:B:209:GLU:HB3	1.92	0.50
2:B:184:PRO:C	2:B:186:SER:H	2.20	0.50
2:B:127:GLY:O	2:B:128:CYS:C	2.55	0.49
2:B:211:SER:CB	2:B:213:PRO:HD2	2.43	0.49
2:B:24:ALA:HB1	2:B:27:PHE:CE1	2.48	0.48
1:A:80:ALA:HB1	1:A:168:SER:O	2.13	0.48
1:A:124:GLN:HG2	1:A:129:GLY:O	2.13	0.48
2:B:180:LEU:HD12	2:B:180:LEU:N	2.29	0.48
1:A:135:PHE:CG	2:B:180:LEU:HD22	2.48	0.47
2:B:204:VAL:HG23	4:B:226:HOH:O	2.13	0.47
1:A:192:TYR:HB2	1:A:209:PHE:CE2	2.49	0.47
2:B:199:HIS:CD2	2:B:202:SER:OG	2.67	0.47
1:A:113:PRO:HG2	1:A:205:ILE:CD1	2.43	0.47
1:A:136:LEU:HD23	1:A:144:ILE:HD13	1.97	0.47
2:B:35:GLU:OE1	2:B:50:GLU:OE1	2.33	0.47
2:B:186:SER:C	2:B:188:TRP:H	2.21	0.47
1:A:135:PHE:CD2	2:B:180:LEU:HD22	2.51	0.46
2:B:11:LEU:HD21	2:B:114:ALA:O	2.15	0.46
1:A:136:LEU:HD23	1:A:144:ILE:CD1	2.46	0.46
2:B:177:LEU:C	2:B:177:LEU:HD12	2.40	0.46
2:B:41:PRO:HG2	2:B:42:GLU:OE1	2.16	0.45
2:B:51:ILE:HG13	2:B:57:THR:HG22	1.98	0.45
1:A:155:ARG:NH1	1:A:157:ASN:O	2.48	0.45
2:B:12:VAL:HG12	2:B:13:GLN:N	2.32	0.45
1:A:136:LEU:CD2	1:A:144:ILE:HD13	2.47	0.45
1:A:7:THR:HG22	4:A:430:HOH:O	2.17	0.44
2:B:148:GLU:CG	2:B:149:PRO:HA	2.44	0.44
2:B:169:VAL:HG22	4:B:216:HOH:O	2.18	0.43
2:B:39:GLN:HB2	2:B:45:LEU:CD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:143:LYS:HE2	2:B:143:LYS:HB3	1.79	0.43
2:B:33:TRP:CE2	2:B:52:ARG:HD3	2.54	0.43
1:A:2:VAL:HG21	1:A:93:HIS:CD2	2.54	0.43
2:B:212:GLY:N	2:B:213:PRO:CD	2.78	0.43
1:A:35:TRP:CD2	1:A:73:LEU:HB2	2.54	0.43
1:A:14:ARG:O	1:A:17:ASP:HB2	2.19	0.42
1:A:161:ASN:HD22	1:A:177:SER:HA	1.83	0.42
1:A:27(D):HIS:CD2	3:C:1:MAG:H82	2.54	0.42
1:A:44:PRO:HG2	2:B:103:TRP:CD2	2.55	0.42
2:B:4:VAL:HG13	2:B:22:CYS:SG	2.60	0.42
2:B:22:CYS:HG	2:B:92:CYS:CB	2.27	0.42
1:A:28:ASP:OD2	1:A:28:ASP:C	2.62	0.42
1:A:80:ALA:O	1:A:83:LEU:HD22	2.20	0.41
1:A:107:LYS:HD2	1:A:140:TYR:OH	2.20	0.41
2:B:42:GLU:N	2:B:42:GLU:CD	2.79	0.41
1:A:93:HIS:O	1:A:94:VAL:C	2.63	0.41
2:B:105:GLN:HE21	2:B:105:GLN:HB2	1.61	0.41
1:A:50:LYS:HB2	1:A:53:ASN:HD22	1.85	0.41
1:A:37:LEU:HD12	1:A:38:GLN:H	1.85	0.41
2:B:22:CYS:HB3	2:B:78:VAL:CG1	2.49	0.41
1:A:33:LEU:HG	1:A:71:PHE:CG	2.55	0.41
2:B:41:PRO:HG2	2:B:42:GLU:CD	2.46	0.41
1:A:49:TYR:CE1	2:B:98:VAL:HB	2.56	0.40
2:B:35:GLU:HB2	2:B:93:THR:OG1	2.22	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	213/215 (99%)	203 (95%)	9 (4%)	1 (0%)	24 31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	214/220 (97%)	204 (95%)	5 (2%)	5 (2%)	5	4
All	All	427/435 (98%)	407 (95%)	14 (3%)	6 (1%)	9	9

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	128	CYS
1	A	200	THR
2	B	185	SER
2	B	131	THR
2	B	187	THR
2	B	133	GLY

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	193/193 (100%)	185 (96%)	8 (4%)	27	41
2	B	186/186 (100%)	182 (98%)	4 (2%)	45	65
All	All	379/379 (100%)	367 (97%)	12 (3%)	34	51

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	17	ASP
1	A	18	GLN
1	A	21	ILE
1	A	77	ARG
1	A	83	LEU
1	A	104	LEU
1	A	136	LEU
1	A	155	ARG
2	B	105	GLN
2	B	149	PRO

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Mol	Chain	Res	Type
2	B	159	LEU
2	B	213	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	GLN
1	A	53	ASN
1	A	93	HIS
1	A	137	ASN
1	A	157	ASN
1	A	161	ASN
1	A	210	ASN
2	B	13	GLN
2	B	39	GLN
2	B	53	ASN
2	B	54	ASN
2	B	81	GLN
2	B	105	GLN
2	B	196	ASN
2	B	199	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 ⓘ

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	$\# Z > 2$
3	MAG	C	1	3	16,16,16	0.60	0	22,22,22	0.70	0
3	RAE	C	2	3	9,9,10	0.64	0	12,12,14	0.71	0
3	RAM	C	3	3	10,10,11	0.71	0	14,14,16	0.67	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	MAG	C	1	3	-	0/8/28/28	0/1/1/1
3	RAE	C	2	3	-	-	0/1/1/1
3	RAM	C	3	3	-	-	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

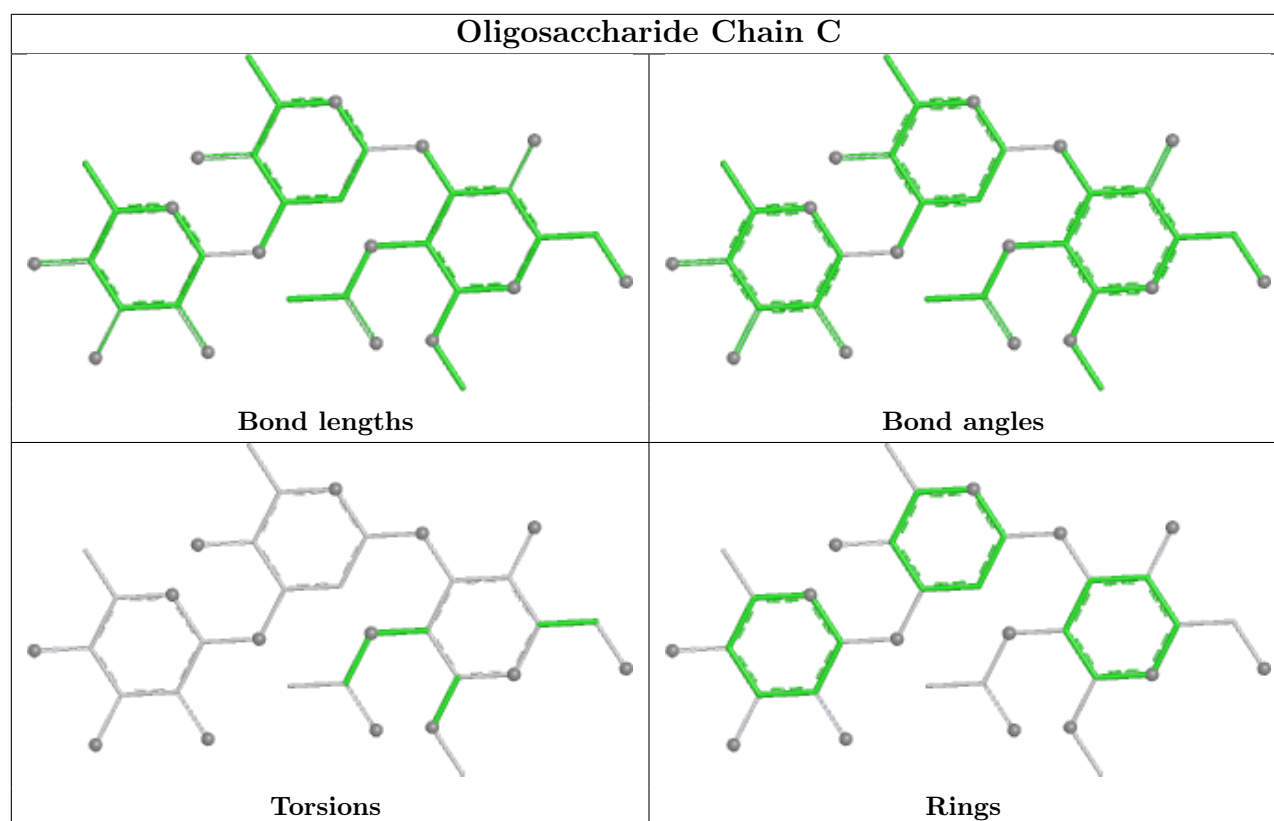
There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	1	MAG	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](#)

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	B	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	134:SER	C	135:SER	N	2.32
1	B	126:PRO	C	127:GLY	N	2.19
1	B	14:PRO	C	15:GLY	N	0.19

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.