



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 10:17 AM UTC

PDB ID : 6FLC / pdb_00006flc
Title : 2C8 Fab bound to EDIII of DenV 2
Authors : Flanagan, A.; Renner, M.; Grimes, J.M.
Deposited on : 2018-01-25
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:

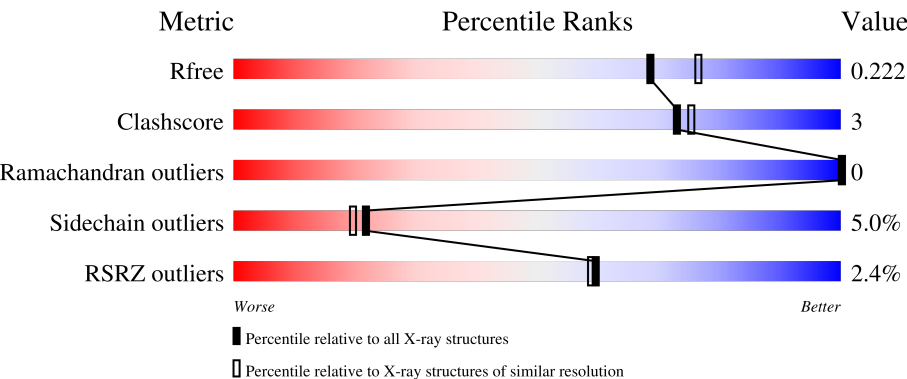
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance i

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	A	214	2% 86% 12% .
1	L	214	% 91% 8% .
2	B	231	2% 82% 10% 6% .
2	H	231	86% 7% 6% .
3	G	98	5% 87% 12% .

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Mol	Chain	Length	Quality of chain
3	I	98	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	GOL	A	301	-	-	X	-
4	GOL	B	301	-	X	-	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 8758 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 2C8 Fab.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	211	Total	C	N	O	S	0	0	0
			1650	1030	284	330	6			
1	L	212	Total	C	N	O	S	0	0	0
			1658	1034	286	332	6			

- Molecule 2 is a protein called Heavy chain of 2C8 Fab.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	216	Total	C	N	O	S	0	0	0
			1645	1045	271	322	7			
2	H	216	Total	C	N	O	S	0	0	0
			1645	1045	271	322	7			

- Molecule 3 is a protein called Domain III of Dengue virus 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	G	98	Total	C	N	O	S	0	0	0
			775	500	127	143	5			
3	I	97	Total	C	N	O	S	0	0	0
			766	494	125	142	5			

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		
4	L	1	Total	C	O	0	0
			6	3	3		

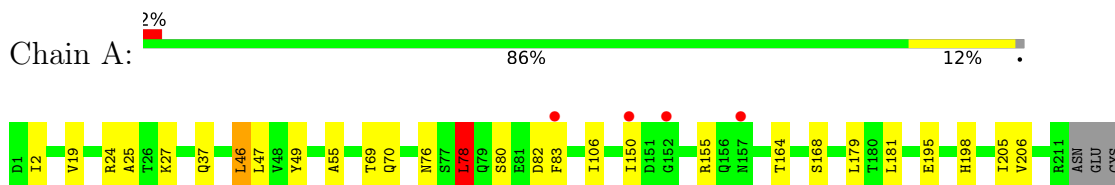
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	84	Total	O	0	0
			84	84		
5	B	131	Total	O	0	0
			131	131		
5	G	67	Total	O	0	0
			67	67		
5	H	143	Total	O	0	0
			143	143		
5	I	40	Total	O	0	0
			40	40		
5	L	130	Total	O	0	0
			130	130		

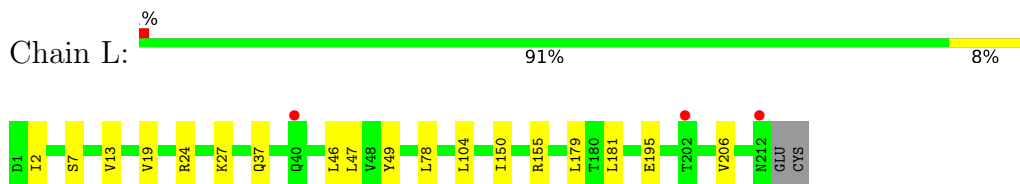
3 Residue-property plots [i](#)

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.

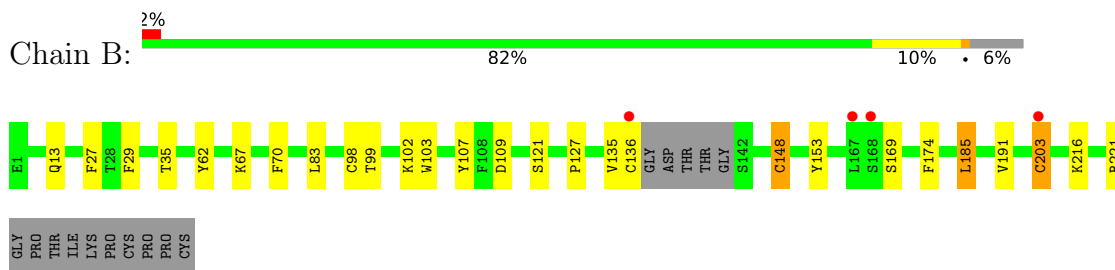
- Molecule 1: Light chain of 2C8 Fab



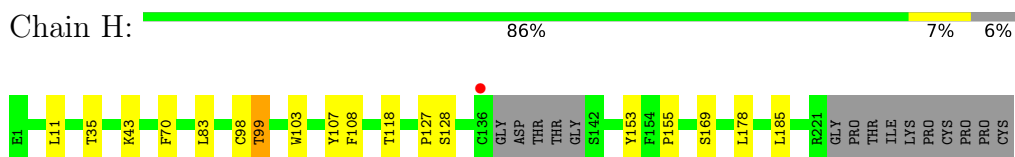
- Molecule 1: Light chain of 2C8 Fab



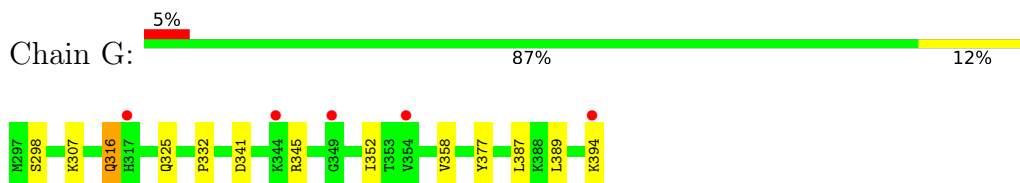
- Molecule 2: Heavy chain of 2C8 Fab



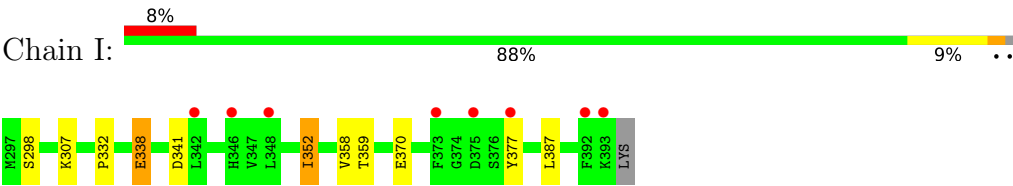
- Molecule 2: Heavy chain of 2C8 Fab



- Molecule 3: Domain III of Dengue virus 2



● Molecule 3: Domain III of Dengue virus 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	42.56Å 61.42Å 104.59Å 77.54° 81.11° 85.53°	Depositor
Resolution (Å)	33.70 – 2.00 33.70 – 2.00	Depositor EDS
% Data completeness (in resolution range)	97.0 (33.70-2.00) 96.9 (33.70-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.89 (at 2.00Å)	Xtriage
Refinement program	BUSTER 2.9.2	Depositor
R, R_{free}	0.180 , 0.216 0.188 , 0.222	Depositor DCC
R_{free} test set	3395 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	27.9	Xtriage
Anisotropy	0.373	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 48.5	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	0.96	EDS
Total number of atoms	8758	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.22% 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

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	0.71	1/1690 (0.1%)	1.09	3/2297 (0.1%)
1	L	0.70	0/1698	1.07	0/2308
2	B	0.71	0/1688	1.08	2/2305 (0.1%)
2	H	0.69	0/1688	1.09	3/2305 (0.1%)
3	G	0.70	0/792	1.06	1/1070 (0.1%)
3	I	0.72	0/783	1.07	2/1059 (0.2%)
All	All	0.71	1/8339 (0.0%)	1.08	11/11344 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	78	LEU	CB-CG	-5.59	1.42	1.53

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	169	SER	N-CA-C	8.35	120.01	111.07
1	A	76	ASN	CA-CB-CG	6.26	118.86	112.60
2	B	169	SER	N-CA-C	-6.22	100.63	109.96
2	H	70	PHE	CA-CB-CG	5.78	119.58	113.80
3	I	338	GLU	CB-CG-CD	5.74	122.35	112.60
2	B	70	PHE	CA-CB-CG	5.72	119.52	113.80
3	I	341	ASP	CA-CB-CG	5.42	118.03	112.60
3	G	341	ASP	CA-CB-CG	5.21	117.81	112.60
2	H	128	SER	N-CA-C	-5.15	101.30	109.96
1	A	198	HIS	CA-C-N	5.08	127.34	120.38
1	A	198	HIS	C-N-CA	5.08	127.34	120.38

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	1650	0	1573	14	0
1	L	1658	0	1579	9	0
2	B	1645	0	1607	18	0
2	H	1645	0	1605	6	0
3	G	775	0	789	5	0
3	I	766	0	776	3	0
4	A	6	0	8	4	0
4	B	12	0	16	0	0
4	L	6	0	8	0	0
5	A	84	0	0	0	0
5	B	131	0	0	0	0
5	G	67	0	0	1	0
5	H	143	0	0	0	0
5	I	40	0	0	0	0
5	L	130	0	0	0	0
All	All	8758	0	7961	50	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 (50) 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)
4:A:301:GOL:O1	2:B:102:LYS:HE3	1.50	1.09
4:A:301:GOL:HO1	2:B:102:LYS:HE3	1.25	0.95
2:B:148:CYS:SG	2:B:203:CYS:CB	2.54	0.95
4:A:301:GOL:O1	2:B:102:LYS:CE	2.24	0.84
3:G:325:GLN:NE2	5:G:401:HOH:O	2.11	0.81
2:B:148:CYS:SG	2:B:203:CYS:HB2	2.22	0.79
2:B:136:CYS:HB2	2:B:221:ARG:HB2	1.67	0.76
1:A:78:LEU:HD12	1:A:82:ASP:HB2	1.70	0.73
1:A:83:PHE:CD2	1:A:106:ILE:HG12	2.27	0.70
2:H:99:THR:HG21	2:H:108:PHE:CG	2.30	0.66
1:L:150:ILE:HD11	1:L:179:LEU:HD21	1.78	0.66
1:A:150:ILE:HD11	1:A:179:LEU:HD21	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:13:VAL:HG11	1:L:19:VAL:HG21	1.83	0.61
1:A:195:GLU:HG2	1:A:206:VAL:HG22	1.84	0.59
2:H:127:PRO:HB3	2:H:153:TYR:HB3	1.85	0.59
1:L:195:GLU:HG2	1:L:206:VAL:HG22	1.85	0.59
2:B:127:PRO:HB3	2:B:153:TYR:HB3	1.86	0.58
1:L:37:GLN:HB2	1:L:47:LEU:HD11	1.87	0.56
1:A:37:GLN:HB2	1:A:47:LEU:HD11	1.88	0.55
2:B:148:CYS:HG	2:B:203:CYS:CB	2.14	0.54
3:G:387:LEU:HD22	3:G:389:LEU:HD21	1.88	0.54
2:H:11:LEU:HD11	2:H:155:PRO:HB3	1.92	0.52
1:A:25:ALA:O	1:A:69:THR:OG1	2.28	0.52
1:A:83:PHE:CG	1:A:106:ILE:HG12	2.46	0.51
2:B:203:CYS:SG	2:B:203:CYS:O	2.69	0.50
4:A:301:GOL:H31	2:B:109:ASP:HB2	1.95	0.49
2:B:148:CYS:HG	2:B:203:CYS:HB2	1.77	0.49
2:B:203:CYS:SG	2:B:216:LYS:HB2	2.53	0.48
1:A:2:ILE:HG12	1:A:27:LYS:HB2	1.95	0.48
2:H:107:TYR:CG	1:L:49:TYR:HB2	2.49	0.48
1:L:150:ILE:HD12	1:L:155:ARG:HG3	1.96	0.47
1:L:2:ILE:HG12	1:L:27:LYS:HB2	1.97	0.46
3:G:332:PRO:HA	3:G:358:VAL:O	2.16	0.46
3:I:332:PRO:HA	3:I:358:VAL:O	2.16	0.45
3:G:332:PRO:HD2	2:H:103:TRP:CG	2.52	0.44
1:A:83:PHE:CE2	1:A:106:ILE:HG12	2.53	0.44
1:A:155:ARG:HG2	1:A:179:LEU:HD11	2.00	0.44
2:H:11:LEU:HD12	2:H:118:THR:HB	2.00	0.43
1:A:78:LEU:HD12	1:A:82:ASP:CB	2.44	0.42
1:A:49:TYR:HB2	2:B:107:TYR:CG	2.54	0.42
2:B:27:PHE:CE2	2:B:29:PHE:HA	2.55	0.41
2:B:103:TRP:CG	3:I:332:PRO:HD2	2.55	0.41
3:G:316:GLN:H	3:G:316:GLN:HG2	1.50	0.41
2:B:62:TYR:HB2	2:B:67:LYS:HG3	2.03	0.41
3:I:352:ILE:HD11	3:I:370:GLU:HB2	2.02	0.41
1:A:164:THR:HG23	2:B:174:PHE:CD2	2.55	0.41
2:B:185:LEU:HD23	2:B:185:LEU:C	2.46	0.41
1:L:13:VAL:HG11	1:L:19:VAL:CG2	2.48	0.40
1:L:19:VAL:HG11	1:L:104:LEU:HD11	2.03	0.40
1:A:46:LEU:HD13	1:A:55:ALA:HB2	2.03	0.40

There are no symmetry-related clashes.

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	209/214 (98%)	203 (97%)	6 (3%)	0	100	100
1	L	210/214 (98%)	204 (97%)	6 (3%)	0	100	100
2	B	212/231 (92%)	208 (98%)	4 (2%)	0	100	100
2	H	212/231 (92%)	208 (98%)	4 (2%)	0	100	100
3	G	96/98 (98%)	95 (99%)	1 (1%)	0	100	100
3	I	95/98 (97%)	94 (99%)	1 (1%)	0	100	100
All	All	1034/1086 (95%)	1012 (98%)	22 (2%)	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	A	186/189 (98%)	177 (95%)	9 (5%)	23	21
1	L	187/189 (99%)	182 (97%)	5 (3%)	39	42
2	B	184/196 (94%)	173 (94%)	11 (6%)	17	14
2	H	184/196 (94%)	177 (96%)	7 (4%)	29	29
3	G	88/88 (100%)	81 (92%)	7 (8%)	11	8
3	I	87/88 (99%)	80 (92%)	7 (8%)	11	8
All	All	916/946 (97%)	870 (95%)	46 (5%)	22	20

All (46) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	19	VAL
1	A	24	ARG
1	A	46	LEU
1	A	70	GLN
1	A	78	LEU
1	A	80	SER
1	A	168	SER
1	A	181	LEU
1	A	205	ILE
2	B	13	GLN
2	B	35	THR
2	B	83	LEU
2	B	98	CYS
2	B	99	THR
2	B	121	SER
2	B	135	VAL
2	B	148	CYS
2	B	185	LEU
2	B	191	VAL
2	B	203	CYS
3	G	298	SER
3	G	307	LYS
3	G	316	GLN
3	G	345	ARG
3	G	352	ILE
3	G	377	TYR
3	G	394	LYS
2	H	35	THR
2	H	43	LYS
2	H	83	LEU
2	H	98	CYS
2	H	99	THR
2	H	178	LEU
2	H	185	LEU
3	I	298	SER
3	I	307	LYS
3	I	338	GLU
3	I	352	ILE
3	I	359	THR
3	I	377	TYR
3	I	387	LEU
1	L	7	SER

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Mol	Chain	Res	Type
1	L	24	ARG
1	L	46	LEU
1	L	78	LEU
1	L	181	LEU

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	76	ASN
1	A	85	ASN
1	A	137	ASN
1	A	156	GLN
1	A	190	ASN
1	A	210	ASN
2	B	53	ASN
2	H	53	ASN
2	H	84	GLN
2	H	106	HIS
2	H	179	GLN
1	L	3	GLN
1	L	85	ASN
1	L	210	ASN
1	L	212	ASN

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](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 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	$\# Z > 2$
4	GOL	A	301	-	5,5,5	1.06	0	5,5,5	0.78	0
4	GOL	L	301	-	5,5,5	0.74	0	5,5,5	0.65	0
4	GOL	B	301	-	5,5,5	0.83	0	5,5,5	1.90	2 (40%)
4	GOL	B	302	-	5,5,5	0.44	0	5,5,5	0.60	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	GOL	A	301	-	-	4/4/4/4	-
4	GOL	L	301	-	-	4/4/4/4	-
4	GOL	B	301	-	-	4/4/4/4	-
4	GOL	B	302	-	-	1/4/4/4	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	301	GOL	O1-C1-C2	-2.75	98.02	110.38
4	B	301	GOL	O2-C2-C3	2.52	119.61	109.18

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	301	GOL	C1-C2-C3-O3
4	B	301	GOL	O1-C1-C2-C3
4	B	301	GOL	C1-C2-C3-O3
4	A	301	GOL	O1-C1-C2-C3
4	B	302	GOL	C1-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
4	L	301	GOL	O1-C1-C2-C3
4	L	301	GOL	C1-C2-C3-O3
4	A	301	GOL	O1-C1-C2-O2
4	A	301	GOL	O2-C2-C3-O3
4	L	301	GOL	O2-C2-C3-O3
4	B	301	GOL	O2-C2-C3-O3
4	B	301	GOL	O1-C1-C2-O2
4	L	301	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	301	GOL	4	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	A	211/214 (98%)	0.19	4 (1%)	66 66	25, 39, 64, 79	0
1	L	212/214 (99%)	-0.16	3 (1%)	73 73	18, 30, 53, 70	0
2	B	216/231 (93%)	-0.08	4 (1%)	66 66	21, 31, 54, 92	0
2	H	216/231 (93%)	-0.34	1 (0%)	87 87	17, 27, 45, 71	0
3	G	98/98 (100%)	0.13	5 (5%)	33 32	22, 37, 58, 71	0
3	I	97/98 (98%)	0.52	8 (8%)	17 16	31, 43, 68, 91	0
All	All	1050/1086 (96%)	-0.02	25 (2%)	59 59	17, 34, 59, 92	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	136	CYS	4.6
1	A	83	PHE	4.2
2	H	136	CYS	3.9
1	L	202	THR	3.8
2	B	203	CYS	3.8
3	I	342	LEU	3.4
3	I	392	PHE	3.2
3	I	373	PHE	3.2
3	G	349	GLY	3.2
3	I	377	TYR	3.1
1	A	157	ASN	2.9
3	G	394	LYS	2.8
2	B	168	SER	2.7
3	I	393	LYS	2.6
3	I	348	LEU	2.5
2	B	167	LEU	2.5
1	L	212	ASN	2.4
3	I	346	HIS	2.4
3	G	317	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	150	ILE	2.1
3	I	375	ASP	2.1
1	A	152	GLY	2.1
3	G	354	VAL	2.1
3	G	344	LYS	2.1
1	L	40	GLN	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](#)

There are no oligosaccharides in this entry.

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
4	GOL	B	302	6/6	0.74	0.16	49,50,50,50	0
4	GOL	A	301	6/6	0.81	0.13	46,47,47,47	0
4	GOL	L	301	6/6	0.90	0.11	40,41,42,43	0
4	GOL	B	301	6/6	0.91	0.09	35,37,37,38	0

6.5 Other polymers [i](#)

There are no such residues in this entry.