



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 03:47 PM UTC

PDB ID : 5DQ9 / pdb_00005dq9
Title : Structure of S55-3 Fab in complex with Lipid A
Authors : Haji-Ghassemi, O.; Evans, S.V.
Deposited on : 2015-09-14
Resolution : 1.95 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

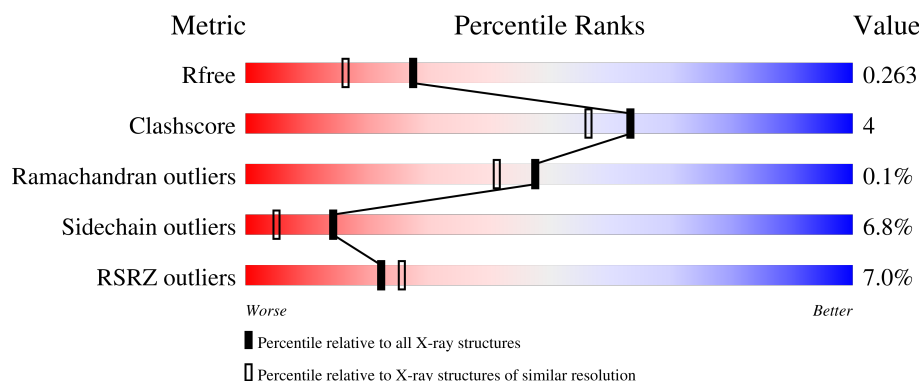
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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.



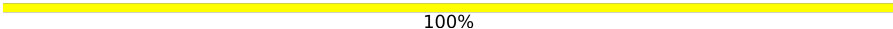
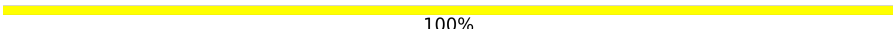
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	3494 (1.96-1.96)
Clashscore	190562	3612 (1.96-1.96)
Ramachandran outliers	187476	3587 (1.96-1.96)
Sidechain outliers	187428	3587 (1.96-1.96)
RSRZ outliers	180081	3495 (1.96-1.96)

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	222	6% 86% 10% ..
1	C	222	6% 87% 10% .
1	H	222	6% 90% 9% .
2	B	218	12% 83% 11% ..
2	D	218	6% 83% 12% .

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Mol	Chain	Length	Quality of chain
2	L	218	 5% 83% 12% . .
3	E	2	 50% 50%
3	F	2	 100%
3	G	2	 100%

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 10397 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.

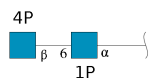
- Molecule 1 is a protein called S55-3 Fab (IgG2b) heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	218	Total	C	N	O	S	0	0	0
			1615	1011	267	328	9			
1	C	217	Total	C	N	O	S	0	0	0
			1609	1008	266	326	9			
1	H	222	Total	C	N	O	S	0	0	0
			1639	1025	271	334	9			

- Molecule 2 is a protein called MAb 44B1 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	212	Total	C	N	O	S	0	0	0
			1648	1026	283	333	6			
2	D	211	Total	C	N	O	S	0	0	0
			1641	1022	282	331	6			
2	L	212	Total	C	N	O	S	0	0	0
			1649	1026	284	333	6			

- Molecule 3 is an oligosaccharide called 2-acetamido-2-deoxy-4-O-phosphono-beta-D-glucopyranose-(1-6)-2-acetamido-2-deoxy-1-O-phosphono-alpha-D-glucopyranose.



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	E	2	Total	C	N	O	P	0	0	0
			37	16	2	17	2			
3	F	2	Total	C	N	O	P	0	0	0
			37	16	2	17	2			
3	G	2	Total	C	N	O	P	0	0	0
			37	16	2	17	2			

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	1	Total 1	Cl 1	0	0
4	H	1	Total 1	Cl 1	0	0

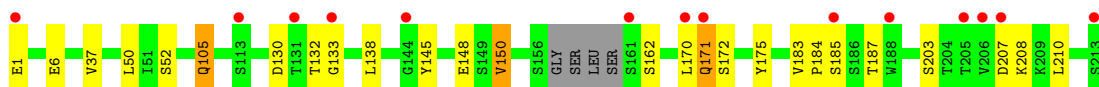
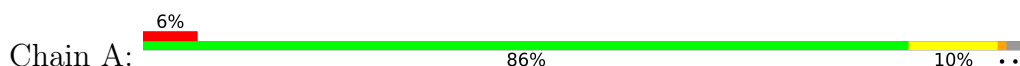
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	89	Total 89	O 89	0	0
5	B	60	Total 60	O 60	0	0
5	C	89	Total 89	O 89	0	0
5	D	66	Total 66	O 66	0	0
5	H	96	Total 96	O 96	0	0
5	L	83	Total 83	O 83	0	0

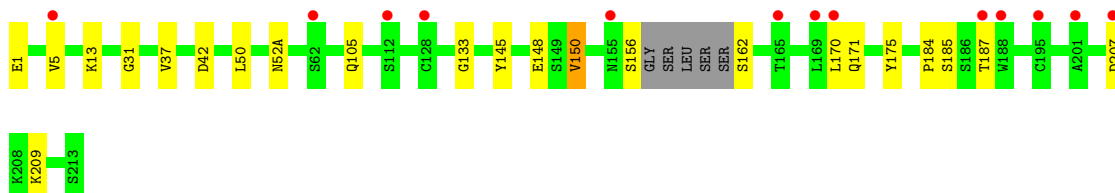
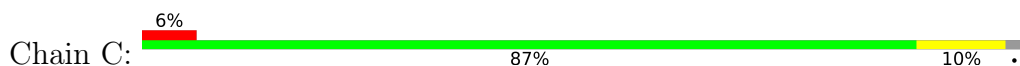
3 Residue-property plots [i](#)

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.

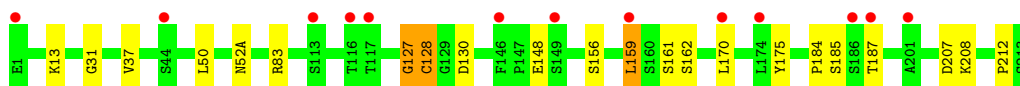
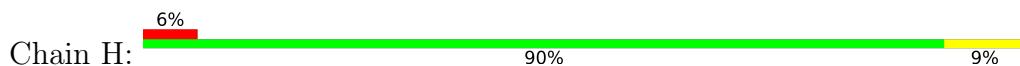
- Molecule 1: S55-3 Fab (IgG2b) heavy chain



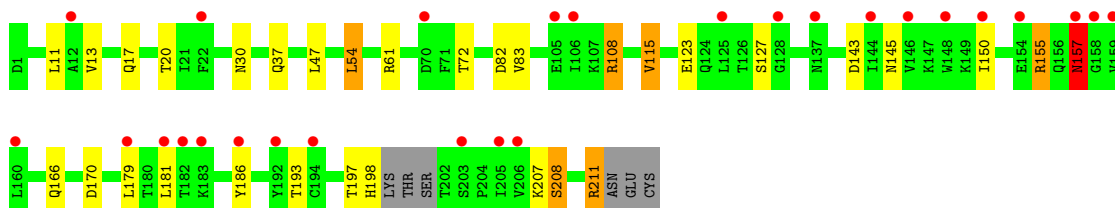
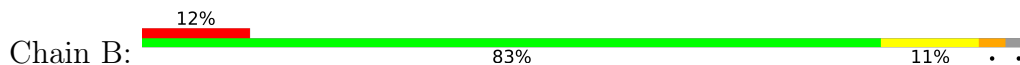
- Molecule 1: S55-3 Fab (IgG2b) heavy chain



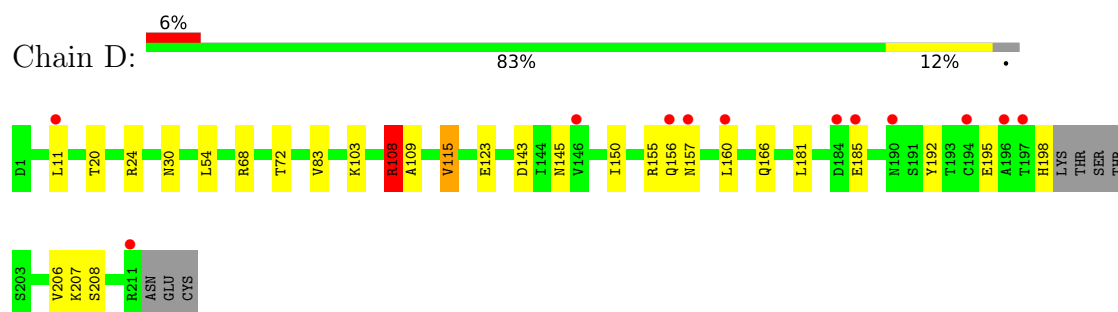
- Molecule 1: S55-3 Fab (IgG2b) heavy chain



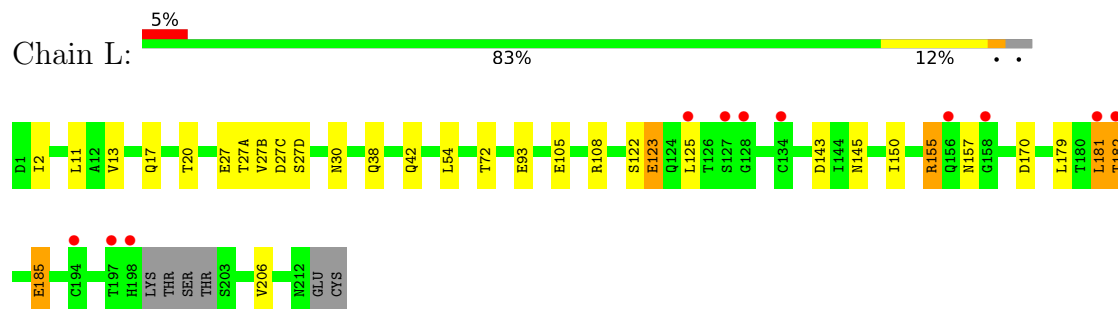
- Molecule 2: MAb 44B1 light chain



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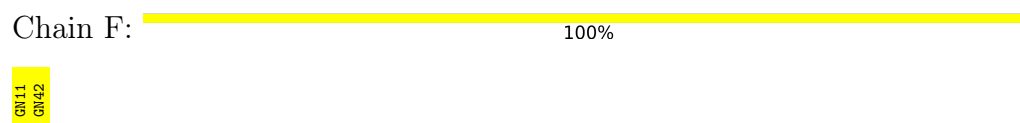
- Molecule 2: MAb 44B1 light chain



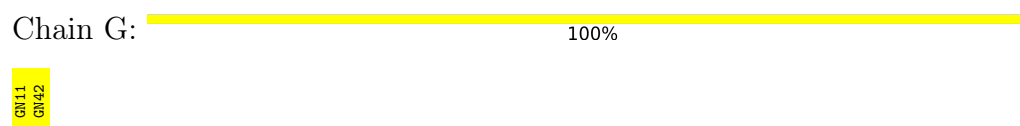
- Molecule 3: 2-acetamido-2-deoxy-4-O-phosphono-beta-D-glucopyranose-(1-6)-2-acetamido-2-deoxy-1-O-phosphono-alpha-D-glucopyranose



- Molecule 3: 2-acetamido-2-deoxy-4-O-phosphono-beta-D-glucopyranose-(1-6)-2-acetamido-2-deoxy-1-O-phosphono-alpha-D-glucopyranose



- Molecule 3: 2-acetamido-2-deoxy-4-O-phosphono-beta-D-glucopyranose-(1-6)-2-acetamido-2-deoxy-1-O-phosphono-alpha-D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	338.12Å 52.87Å 75.39Å 90.00° 100.95° 90.00°	Depositor
Resolution (Å)	25.00 – 1.95 25.00 – 1.95	Depositor EDS
% Data completeness (in resolution range)	98.3 (25.00-1.95) 98.3 (25.00-1.95)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.20 (at 1.95Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.212 , 0.245 (Not available) , 0.263	Depositor DCC
R_{free} test set	4730 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	30.0	Xtriage
Anisotropy	0.083	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 41.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.014 for -h-2*k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	10397	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 29.18 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.6189e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: GN1, CL, GN4

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	0.65	0/1653	0.83	1/2253 (0.0%)
1	C	0.66	1/1647 (0.1%)	0.84	2/2245 (0.1%)
1	H	0.65	0/1678	0.82	4/2288 (0.2%)
2	B	0.59	0/1685	0.84	2/2289 (0.1%)
2	D	0.61	0/1678	0.82	3/2279 (0.1%)
2	L	0.62	0/1686	0.79	0/2290
All	All	0.63	1/10027 (0.0%)	0.82	12/13644 (0.1%)

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
1	A	0	1
2	B	0	1
All	All	0	2

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	42	ASP	CA-C	5.80	1.60	1.52

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	42	ASP	N-CA-C	10.54	125.66	113.01
1	H	148	GLU	N-CA-C	8.69	120.76	111.28
1	A	148	GLU	N-CA-C	8.33	121.29	111.71
1	C	148	GLU	N-CA-C	-7.72	97.48	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	157	ASN	N-CA-C	6.90	117.15	108.45

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	132	THR	Peptide
2	B	157	ASN	Peptide

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	1615	0	1567	15	1
1	C	1609	0	1562	9	0
1	H	1639	0	1592	16	0
2	B	1648	0	1576	19	0
2	D	1641	0	1569	10	0
2	L	1649	0	1575	11	0
3	E	37	0	0	2	0
3	F	37	0	0	0	0
3	G	37	0	0	0	0
4	C	1	0	0	0	0
4	H	1	0	0	0	0
5	A	89	0	0	2	0
5	B	60	0	0	3	0
5	C	89	0	0	0	0
5	D	66	0	0	1	0
5	H	96	0	0	3	0
5	L	83	0	0	0	0
All	All	10397	0	9441	78	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 4.

The worst 5 of 78 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:61:ARG:HH12	2:B:82:ASP:CG	1.58	1.10
2:B:61:ARG:NH1	2:B:82:ASP:OD2	2.00	0.94
1:A:52:SER:HA	3:E:2:GN4:O6	1.69	0.92
2:B:61:ARG:NH1	2:B:82:ASP:CG	2.33	0.85
1:H:127:GLY:O	1:H:130:ASP:HB2	1.77	0.84

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:130:ASP:OD1	1:A:130:ASP:OD1[2_555]	1.65	0.55

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	214/222 (96%)	210 (98%)	4 (2%)	0	100	100
1	C	213/222 (96%)	210 (99%)	3 (1%)	0	100	100
1	H	220/222 (99%)	217 (99%)	3 (1%)	0	100	100
2	B	208/218 (95%)	201 (97%)	7 (3%)	0	100	100
2	D	207/218 (95%)	200 (97%)	6 (3%)	1 (0%)	24	16
2	L	208/218 (95%)	202 (97%)	6 (3%)	0	100	100
All	All	1270/1320 (96%)	1240 (98%)	29 (2%)	1 (0%)	48	41

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	68	ARG

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	184/187 (98%)	175 (95%)	9 (5%)	22	11
1	C	183/187 (98%)	175 (96%)	8 (4%)	25	15
1	H	187/187 (100%)	178 (95%)	9 (5%)	23	12
2	B	186/192 (97%)	172 (92%)	14 (8%)	12	4
2	D	185/192 (96%)	170 (92%)	15 (8%)	11	3
2	L	186/192 (97%)	166 (89%)	20 (11%)	6	1
All	All	1111/1137 (98%)	1036 (93%)	75 (7%)	14	5

5 of 75 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	L	27(A)	THR
2	L	181	LEU
2	L	27(C)	ASP
2	L	123	GLU
1	C	13	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 10 such sidechains are listed below:

Mol	Chain	Res	Type
1	H	52(A)	ASN
2	L	53	ASN
2	L	156	GLN
2	B	156	GLN
1	C	52(A)	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 ⓘ

6 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	GN1	E	1	3	18,19,19	1.97	5 (27%)	28,28,28	1.28	2 (7%)
3	GN4	E	2	3	18,18,19	2.20	5 (27%)	24,26,28	1.95	5 (20%)
3	GN1	F	1	3	18,19,19	3.01	7 (38%)	28,28,28	1.75	6 (21%)
3	GN4	F	2	3	18,18,19	2.97	7 (38%)	24,26,28	1.13	2 (8%)
3	GN1	G	1	3	18,19,19	2.11	4 (22%)	28,28,28	1.33	4 (14%)
3	GN4	G	2	3	18,18,19	2.09	5 (27%)	24,26,28	1.16	3 (12%)

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	GN1	E	1	3	-	1/10/31/31	0/1/1/1
3	GN4	E	2	3	-	2/11/28/31	0/1/1/1
3	GN1	F	1	3	-	2/10/31/31	0/1/1/1
3	GN4	F	2	3	-	0/11/28/31	0/1/1/1
3	GN1	G	1	3	-	1/10/31/31	0/1/1/1
3	GN4	G	2	3	-	0/11/28/31	0/1/1/1

The worst 5 of 33 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	1	GN1	P-O1	-6.88	1.47	1.59
3	F	2	GN4	P45-O4	-6.66	1.47	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	1	GN1	P-OP1	-5.71	1.33	1.54
3	F	2	GN4	P45-O48	-5.31	1.35	1.54
3	F	2	GN4	P45-O47	-5.30	1.35	1.54

The worst 5 of 22 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	2	GN4	C1-O5-C5	5.50	119.55	112.19
3	F	1	GN1	O5-C1-O1	4.21	116.87	111.36
3	E	2	GN4	O5-C5-C6	3.93	115.31	107.66
3	E	2	GN4	C6-C5-C4	-3.50	103.54	113.38
3	F	1	GN1	O1-C1-C2	3.32	114.41	108.40

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	E	2	GN4	O5-C5-C6-O6
3	F	1	GN1	C8-C7-N2-C2
3	F	1	GN1	O7-C7-N2-C2
3	E	2	GN4	C4-C5-C6-O6
3	G	1	GN1	C1-O1-P-OP3

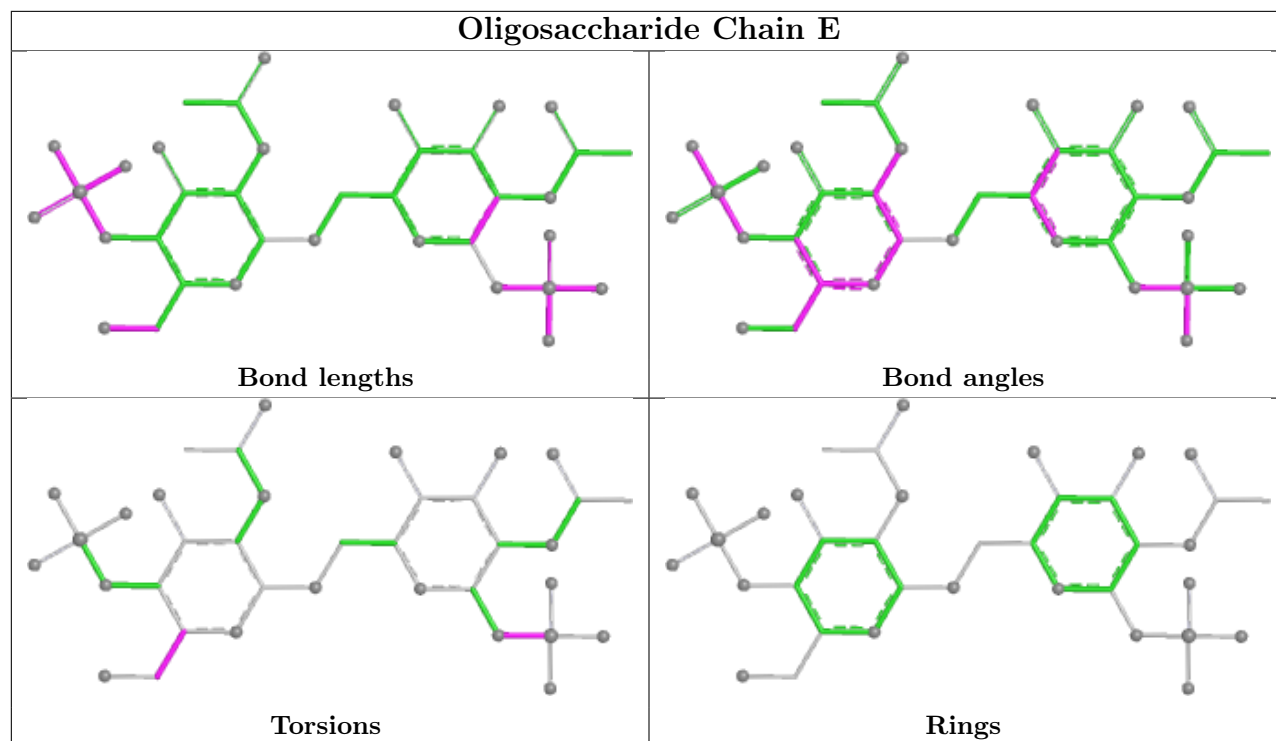
There are no ring outliers.

1 monomer is involved in 2 short contacts:

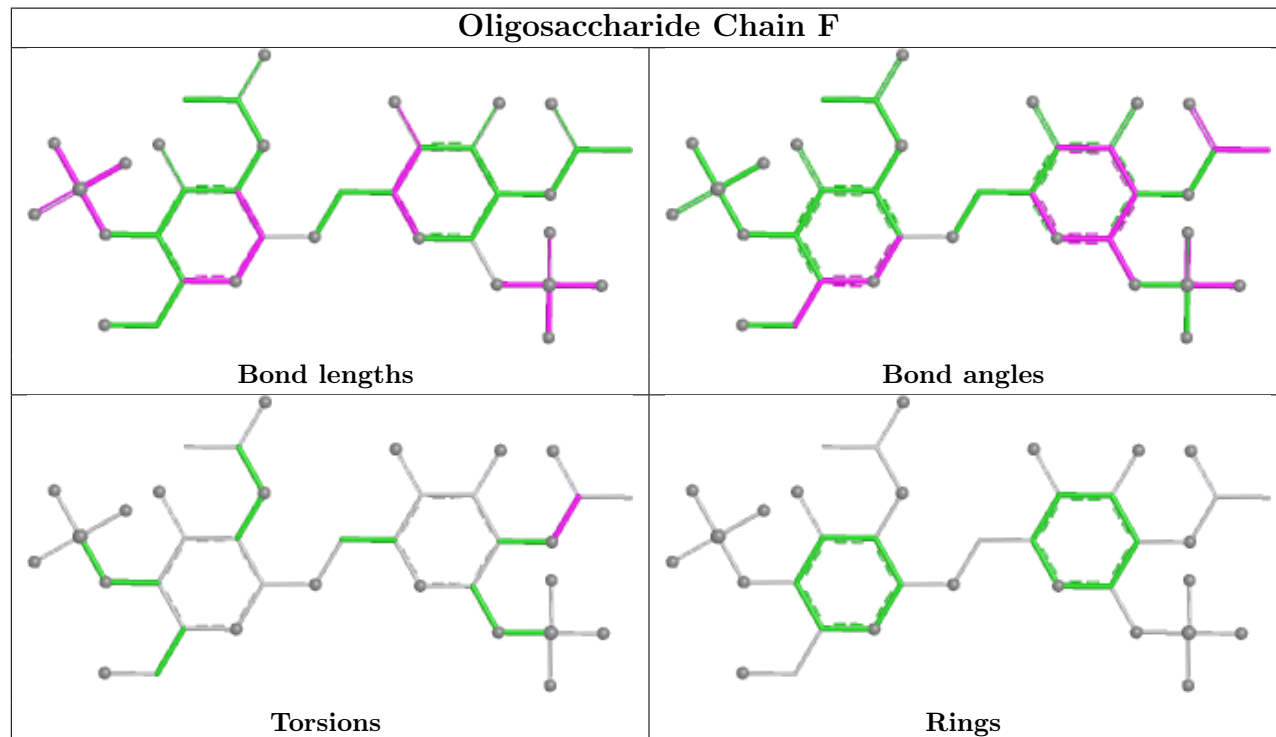
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	E	2	GN4	2	0

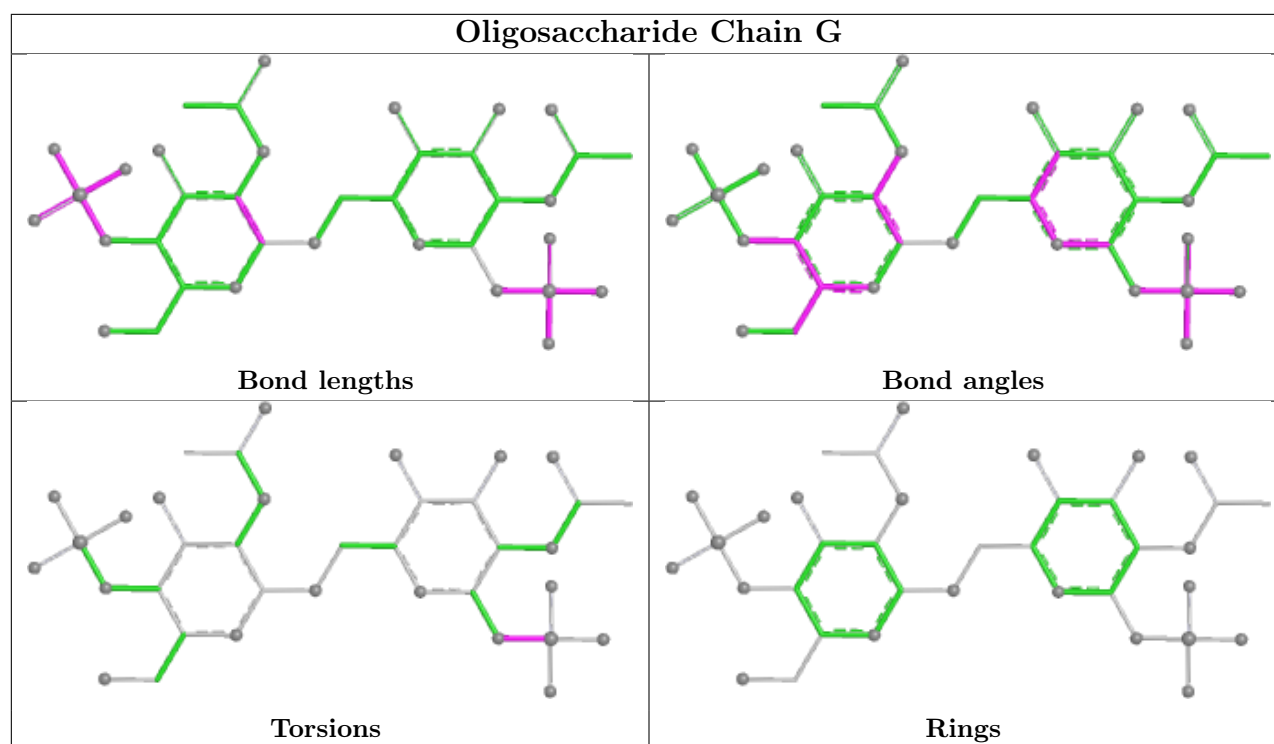
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

Oligosaccharide Chain E



Oligosaccharide Chain F





5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

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.

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	218/222 (98%)	0.51	14 (6%) 25 29	19, 35, 62, 75	0
1	C	217/222 (97%)	0.72	13 (5%) 27 32	21, 39, 63, 74	0
1	H	222/222 (100%)	0.59	13 (5%) 28 32	18, 37, 57, 74	0
2	B	212/218 (97%)	0.93	27 (12%) 8 9	22, 43, 70, 97	0
2	D	211/218 (96%)	0.66	12 (5%) 29 34	22, 40, 65, 87	0
2	L	212/218 (97%)	0.47	11 (5%) 33 38	19, 35, 61, 89	0
All	All	1292/1320 (97%)	0.65	90 (6%) 22 26	18, 38, 64, 97	0

The worst 5 of 90 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	133	GLY	4.1
1	H	187	THR	4.0
2	B	148	TRP	3.9
1	A	171	GLN	3.6
1	C	165	THR	3.3

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

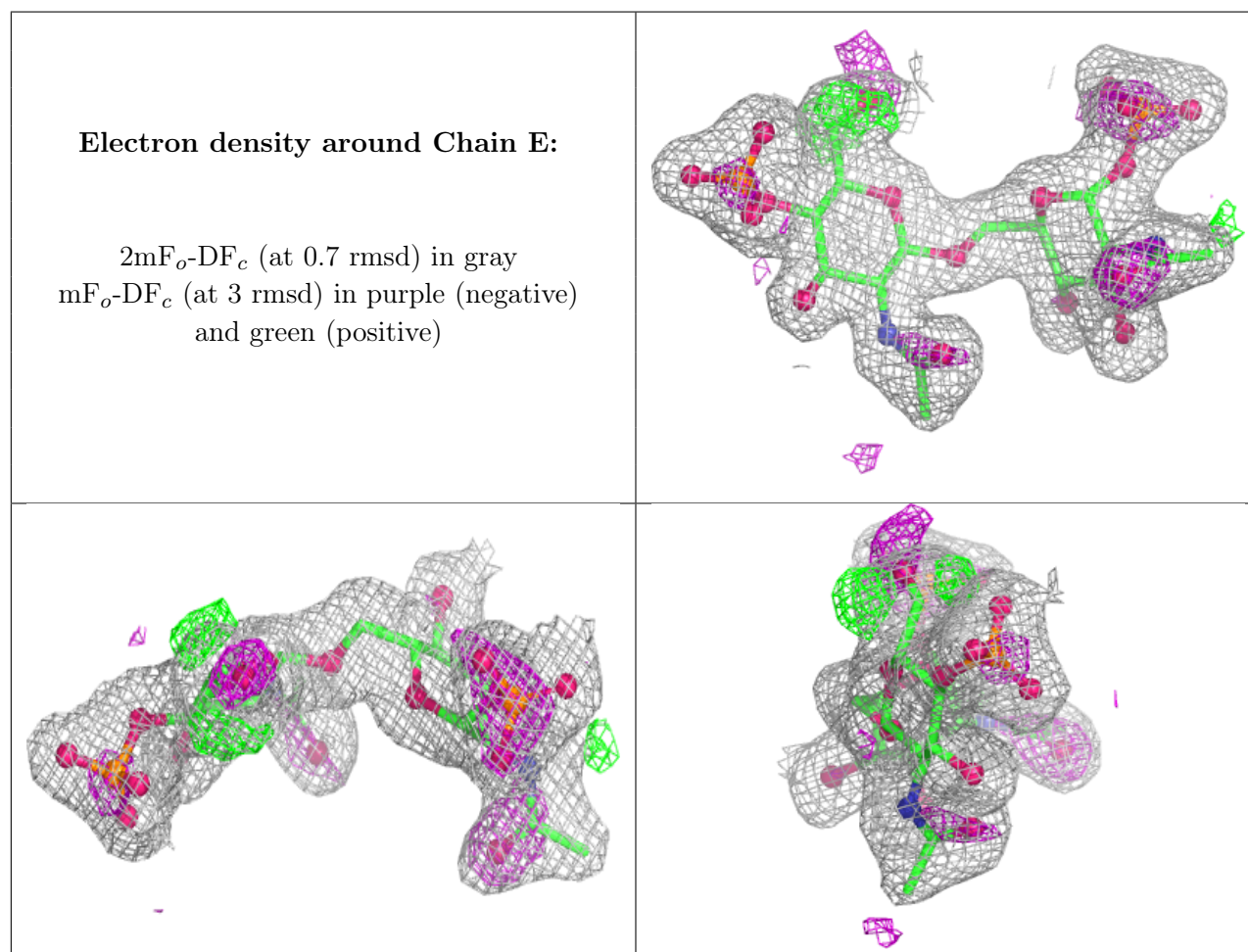
There are no non-standard protein/DNA/RNA residues in this entry.

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.

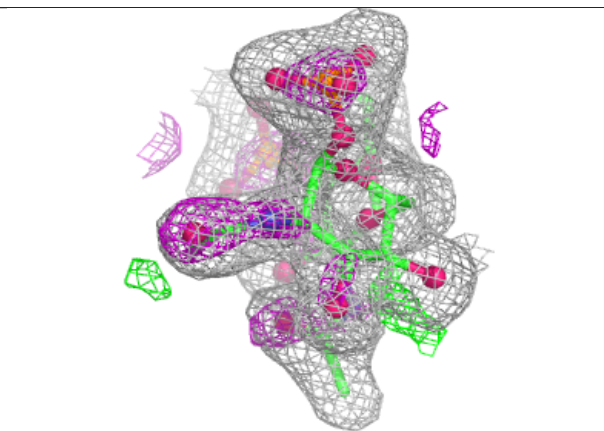
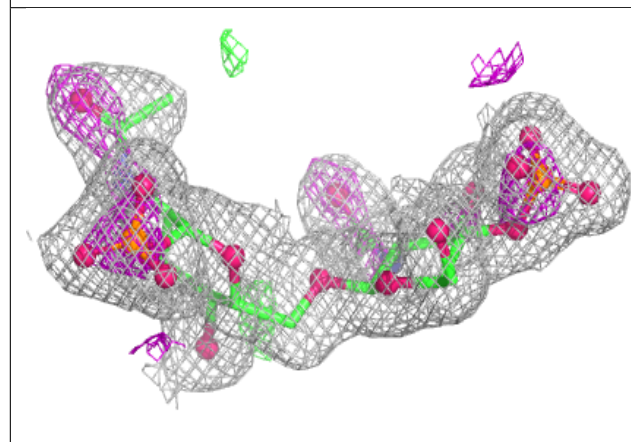
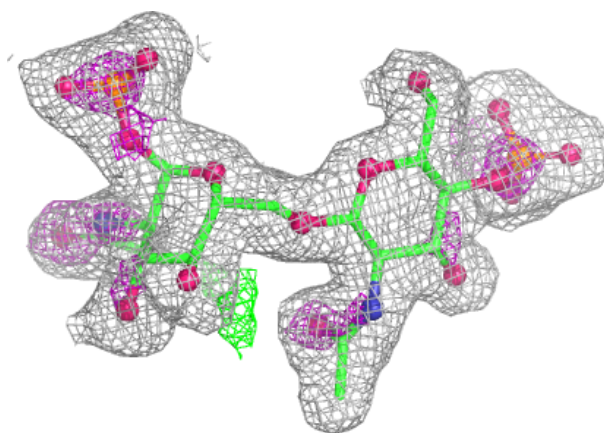
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	GN1	E	1	19/19	-	-	20,20,20,20	0
3	GN4	E	2	18/19	-	-	20,20,20,20	0
3	GN1	F	1	19/19	-	-	20,20,20,20	0
3	GN4	F	2	18/19	-	-	20,20,20,20	0
3	GN4	G	2	18/19	0.94	0.08	20,20,20,20	0
3	GN1	G	1	19/19	0.95	0.08	20,20,20,20	0

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.

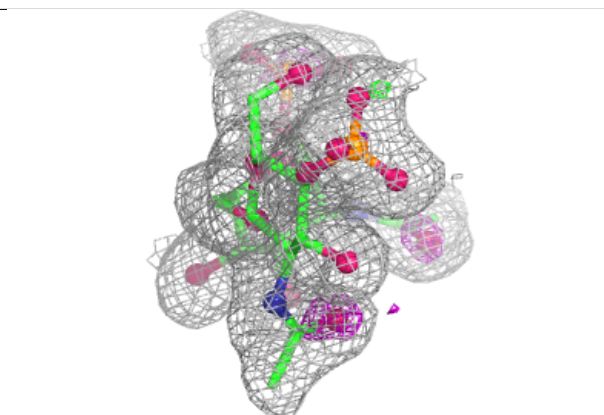
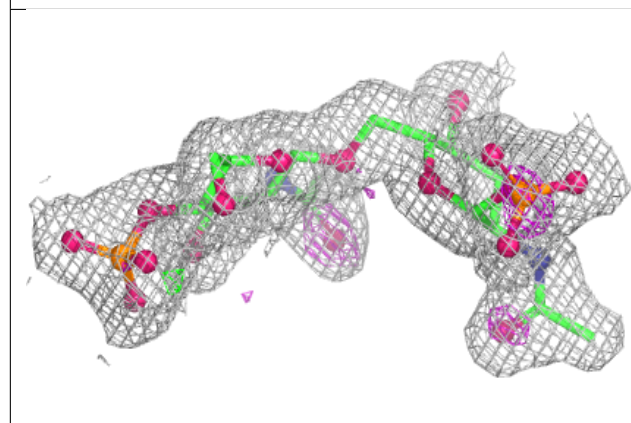
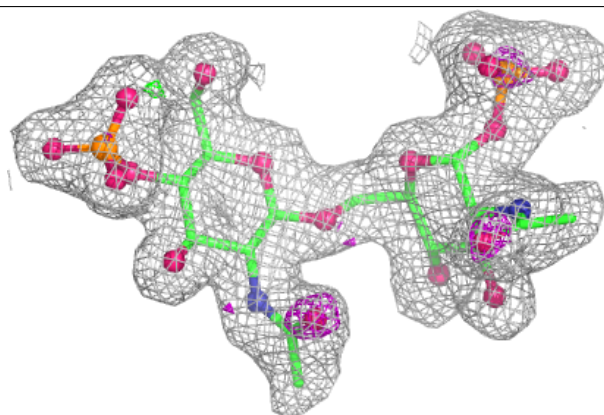


Electron density around Chain F:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around Chain G:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



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	CL	H	301	1/1	0.99	0.03	26,26,26,26	0
4	CL	C	301	1/1	1.00	0.01	23,23,23,23	1

6.5 Other polymers [i](#)

There are no such residues in this entry.