



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 16, 2023 – 09:19 AM JST

PDB ID : 6LGA
Title : Bombyx mori GH13 sucrose hydrolase
Authors : Miyazaki, T.
Deposited on : 2019-12-05
Resolution : 1.85 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

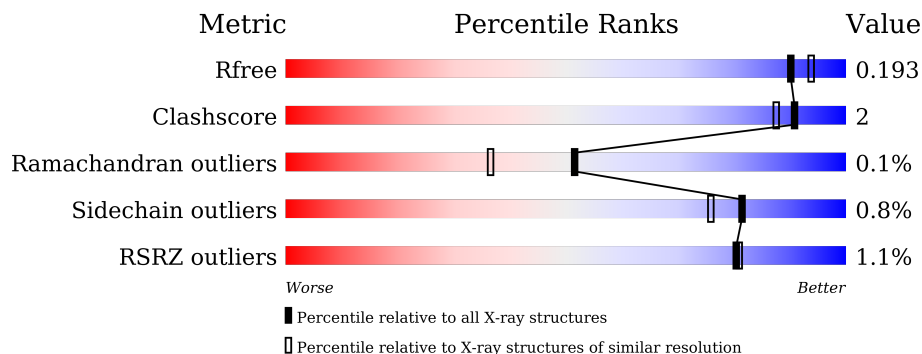
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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	2469 (1.86-1.86)
Clashscore	141614	2625 (1.86-1.86)
Ramachandran outliers	138981	2592 (1.86-1.86)
Sidechain outliers	138945	2592 (1.86-1.86)
RSRZ outliers	127900	2436 (1.86-1.86)

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	598	
1	B	598	

2 Entry composition i

There are 6 unique types of molecules in this entry. The entry contains 10595 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 Sucrose hydrolase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	570	4684	3006	773	891	14	0	6	0
1	B	565	4643	2984	763	883	13	0	6	0

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	9	MET	-	expression tag	UNP A0A077JI83
A	10	GLY	-	expression tag	UNP A0A077JI83
A	11	SER	-	expression tag	UNP A0A077JI83
A	12	SER	-	expression tag	UNP A0A077JI83
A	13	HIS	-	expression tag	UNP A0A077JI83
A	14	HIS	-	expression tag	UNP A0A077JI83
A	15	HIS	-	expression tag	UNP A0A077JI83
A	16	HIS	-	expression tag	UNP A0A077JI83
A	17	HIS	-	expression tag	UNP A0A077JI83
A	18	HIS	-	expression tag	UNP A0A077JI83
A	19	SER	-	expression tag	UNP A0A077JI83
A	20	SER	-	expression tag	UNP A0A077JI83
A	21	GLY	-	expression tag	UNP A0A077JI83
A	22	LEU	-	expression tag	UNP A0A077JI83
A	23	VAL	-	expression tag	UNP A0A077JI83
A	24	PRO	-	expression tag	UNP A0A077JI83
A	25	ARG	-	expression tag	UNP A0A077JI83
A	26	GLY	-	expression tag	UNP A0A077JI83
A	27	SER	-	expression tag	UNP A0A077JI83
A	28	HIS	-	expression tag	UNP A0A077JI83
A	29	MET	-	expression tag	UNP A0A077JI83
B	9	MET	-	expression tag	UNP A0A077JI83
B	10	GLY	-	expression tag	UNP A0A077JI83
B	11	SER	-	expression tag	UNP A0A077JI83
B	12	SER	-	expression tag	UNP A0A077JI83

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Chain	Residue	Modelled	Actual	Comment	Reference
B	13	HIS	-	expression tag	UNP A0A077JI83
B	14	HIS	-	expression tag	UNP A0A077JI83
B	15	HIS	-	expression tag	UNP A0A077JI83
B	16	HIS	-	expression tag	UNP A0A077JI83
B	17	HIS	-	expression tag	UNP A0A077JI83
B	18	HIS	-	expression tag	UNP A0A077JI83
B	19	SER	-	expression tag	UNP A0A077JI83
B	20	SER	-	expression tag	UNP A0A077JI83
B	21	GLY	-	expression tag	UNP A0A077JI83
B	22	LEU	-	expression tag	UNP A0A077JI83
B	23	VAL	-	expression tag	UNP A0A077JI83
B	24	PRO	-	expression tag	UNP A0A077JI83
B	25	ARG	-	expression tag	UNP A0A077JI83
B	26	GLY	-	expression tag	UNP A0A077JI83
B	27	SER	-	expression tag	UNP A0A077JI83
B	28	HIS	-	expression tag	UNP A0A077JI83
B	29	MET	-	expression tag	UNP A0A077JI83

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Mg 2 2	0	0
2	B	1	Total Mg 1 1	0	0

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

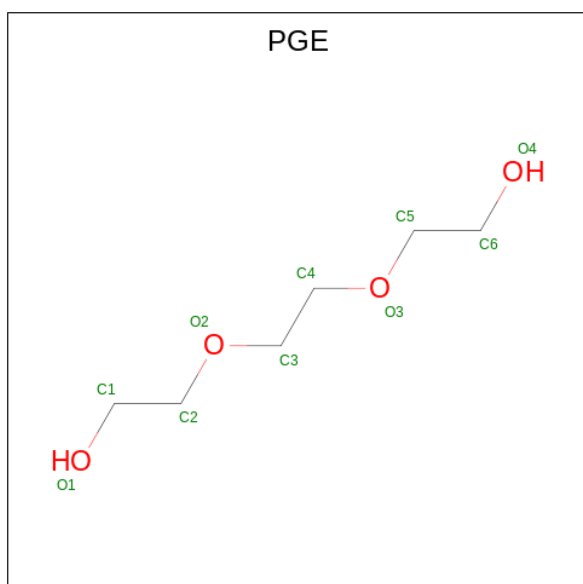
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Ca 1 1	0	0
3	B	1	Total Ca 1 1	0	0

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

- Molecule 5 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			10	6	4		

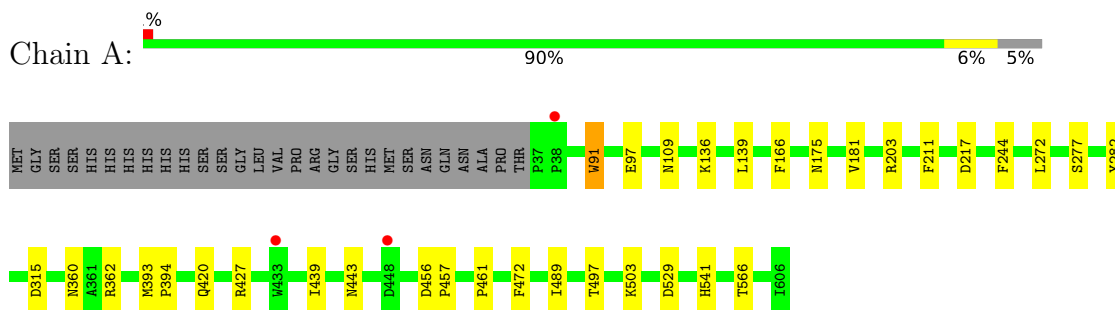
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	614	Total	O	0	0
			614	614		
6	B	609	Total	O	0	0
			609	609		

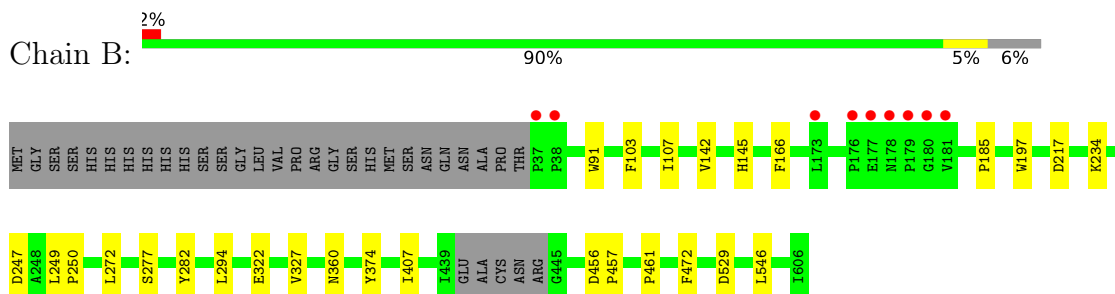
3 Residue-property plots [i](#)

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: Sucrose hydrolase



- Molecule 1: Sucrose hydrolase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	65.88Å 145.68Å 153.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.91 – 1.85 48.86 – 1.85	Depositor EDS
% Data completeness (in resolution range)	99.7 (48.91-1.85) 99.7 (48.86-1.85)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.42 (at 1.86Å)	Xtrriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.157 , 0.185 0.167 , 0.193	Depositor DCC
R_{free} test set	6257 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	20.0	Xtrriage
Anisotropy	0.020	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 42.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	10595	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.31% 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: GOL, PGE, CA, MG

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	0.66	0/4846	0.75	1/6597 (0.0%)
1	B	0.66	0/4804	0.75	0/6541
All	All	0.66	0/9650	0.75	1/13138 (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	A	211	PHE	CB-CA-C	5.33	121.06	110.40

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	4684	0	4423	17	0
1	B	4643	0	4383	16	0
2	A	2	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	18	0	24	0	0
4	B	12	0	16	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	10	0	14	0	0
6	A	614	0	0	2	0
6	B	609	0	0	3	0
All	All	10595	0	8860	31	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 2.

All (31) 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:B:234:LYS:HE3	6:B:1279:HOH:O	1.85	0.73
1:A:541:HIS:HD2	6:A:1303:HOH:O	1.79	0.65
1:A:393:MET:HB3	1:A:394:PRO:HD3	1.83	0.59
1:A:566:THR:HG23	6:A:1265:HOH:O	2.06	0.55
1:A:136:LYS:HE3	1:A:315:ASP:OD2	2.08	0.54
1:B:461:PRO:HB3	1:B:472:PHE:CG	2.44	0.52
1:A:461:PRO:HB3	1:A:472:PHE:CG	2.46	0.51
1:B:407:ILE:HG21	1:B:546:LEU:HD13	1.93	0.50
1:B:327[B]:VAL:HG23	6:B:1179:HOH:O	2.11	0.50
1:B:142:VAL:HG11	1:B:145:HIS:CE1	2.50	0.46
1:A:497:THR:O	1:A:503[A]:LYS:HE2	2.17	0.45
1:B:277:SER:HA	1:B:282:TYR:CD2	2.52	0.44
1:A:360:ASN:HB2	1:A:529:ASP:O	2.18	0.44
1:A:439:ILE:HG13	1:A:443:ASN:HD22	1.84	0.43
1:B:107:ILE:HD12	6:B:801:HOH:O	2.18	0.43
1:A:175:ASN:ND2	1:A:181:VAL:HB	2.35	0.42
1:A:91:TRP:CD1	1:A:91:TRP:C	2.91	0.42
1:A:272:LEU:HD23	1:B:272:LEU:HD23	2.00	0.42
1:A:97:GLU:HB2	1:A:109:ASN:HB3	2.01	0.42
1:B:249:LEU:N	1:B:250:PRO:CD	2.82	0.42
1:A:456:ASP:N	1:A:457:PRO:CD	2.82	0.42
1:A:277:SER:HA	1:A:282:TYR:CD2	2.55	0.41
1:A:362:ARG:HD3	1:B:374:TYR:HA	2.02	0.41
1:A:139:LEU:O	1:A:244:PHE:HA	2.20	0.41
1:B:185:PRO:HD2	1:B:197:TRP:CG	2.55	0.41
1:B:247:ASP:HA	1:B:322:GLU:HB3	2.02	0.41
1:B:277:SER:HA	1:B:282:TYR:CG	2.55	0.41
1:B:360:ASN:HB2	1:B:529:ASP:O	2.21	0.41
1:A:427:ARG:CZ	1:A:489:ILE:HD11	2.51	0.41
1:B:294:LEU:C	1:B:294:LEU:HD12	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:456:ASP:N	1:B:457:PRO:CD	2.84	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	574/598 (96%)	562 (98%)	11 (2%)	1 (0%)	47	33
1	B	567/598 (95%)	559 (99%)	8 (1%)	0	100	100
All	All	1141/1196 (95%)	1121 (98%)	19 (2%)	1 (0%)	51	36

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	420	GLN

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	506/524 (97%)	502 (99%)	4 (1%)	81	76
1	B	502/524 (96%)	498 (99%)	4 (1%)	81	76
All	All	1008/1048 (96%)	1000 (99%)	8 (1%)	81	76

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	91	TRP
1	A	166	PHE
1	A	203	ARG
1	A	217	ASP
1	B	91	TRP
1	B	103	PHE
1	B	166	PHE
1	B	217	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	191	GLN
1	A	391	ASN
1	A	443	ASN
1	A	514	GLN
1	A	541	HIS
1	B	204	GLN
1	B	391	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 11 ligands modelled in this entry, 5 are monoatomic - leaving 6 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
4	GOL	A	704	-	5,5,5	0.15	0	5,5,5	0.23	0
4	GOL	A	705	-	5,5,5	0.08	0	5,5,5	0.27	0
5	PGE	A	707	-	9,9,9	0.30	0	8,8,8	0.27	0
4	GOL	A	706	-	5,5,5	0.13	0	5,5,5	0.25	0
4	GOL	B	703	-	5,5,5	0.15	0	5,5,5	0.40	0
4	GOL	B	704	-	5,5,5	0.11	0	5,5,5	0.28	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	704	-	-	2/4/4/4	-
4	GOL	A	705	-	-	0/4/4/4	-
5	PGE	A	707	-	-	7/7/7/7	-
4	GOL	A	706	-	-	2/4/4/4	-
4	GOL	B	703	-	-	3/4/4/4	-
4	GOL	B	704	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	706	GOL	O1-C1-C2-C3
4	B	703	GOL	C1-C2-C3-O3
4	B	704	GOL	O1-C1-C2-C3
5	A	707	PGE	O2-C3-C4-O3
5	A	707	PGE	O3-C5-C6-O4
5	A	707	PGE	C3-C4-O3-C5
4	A	704	GOL	C1-C2-C3-O3
5	A	707	PGE	C6-C5-O3-C4

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Mol	Chain	Res	Type	Atoms
4	A	704	GOL	O2-C2-C3-O3
5	A	707	PGE	O1-C1-C2-O2
4	B	704	GOL	O1-C1-C2-O2
5	A	707	PGE	C1-C2-O2-C3
4	A	706	GOL	O1-C1-C2-O2
4	B	703	GOL	O2-C2-C3-O3
4	B	703	GOL	O1-C1-C2-O2
5	A	707	PGE	C4-C3-O2-C2

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	570/598 (95%)	-0.48	3 (0%) 91 91	15, 21, 38, 68	0
1	B	565/598 (94%)	-0.33	9 (1%) 72 72	14, 21, 41, 92	0
All	All	1135/1196 (94%)	-0.41	12 (1%) 80 81	14, 21, 39, 92	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	176	PRO	5.4
1	B	177	GLU	5.3
1	B	181	VAL	3.9
1	B	37	PRO	3.8
1	B	180	GLY	3.3
1	B	178	ASN	2.9
1	B	179	PRO	2.8
1	A	433	TRP	2.5
1	A	38	PRO	2.5
1	B	38	PRO	2.2
1	A	448	ASP	2.2
1	B	173	LEU	2.2

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 monosaccharides in this entry.

6.4 Ligands

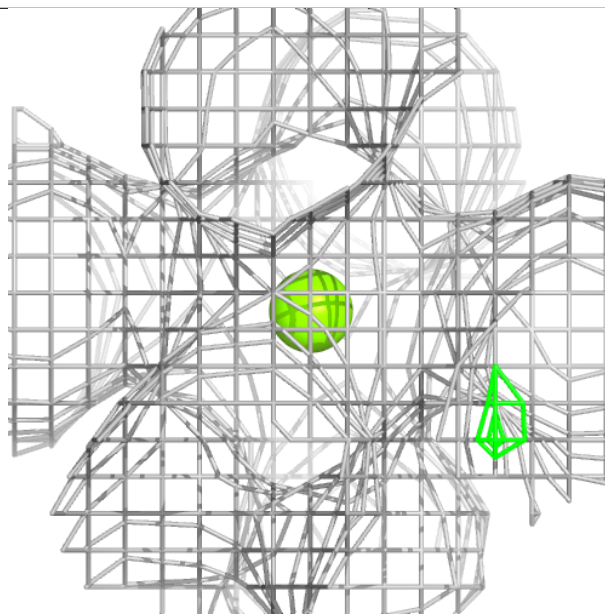
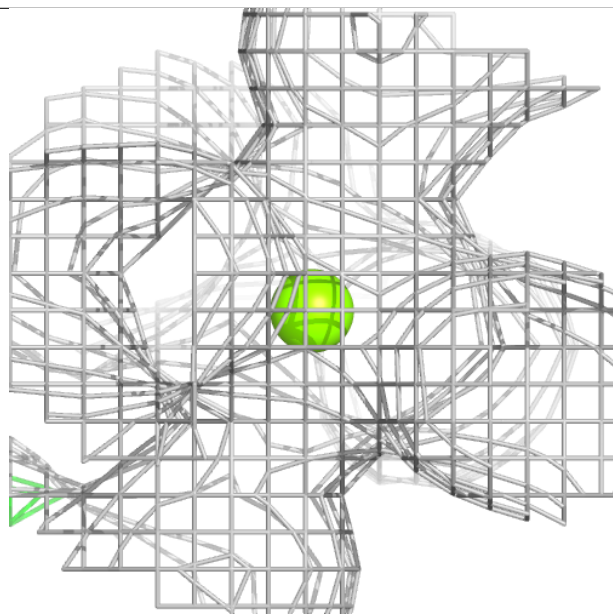
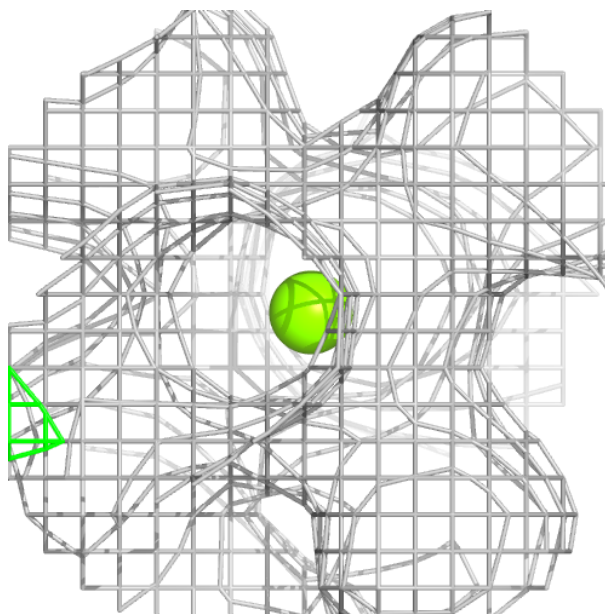
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists 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	A	706	6/6	0.71	0.22	39,45,48,51	0
5	PGE	A	707	10/10	0.78	0.22	51,55,58,58	0
4	GOL	B	703	6/6	0.86	0.14	36,41,42,43	0
4	GOL	A	705	6/6	0.90	0.19	34,43,47,49	0
4	GOL	B	704	6/6	0.91	0.13	27,41,42,51	0
4	GOL	A	704	6/6	0.95	0.10	21,24,25,27	0
2	MG	A	701	1/1	0.99	0.07	18,18,18,18	0
2	MG	A	703	1/1	0.99	0.04	18,18,18,18	0
2	MG	B	701	1/1	0.99	0.05	20,20,20,20	0
3	CA	A	702	1/1	1.00	0.06	16,16,16,16	0
3	CA	B	702	1/1	1.00	0.08	17,17,17,17	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

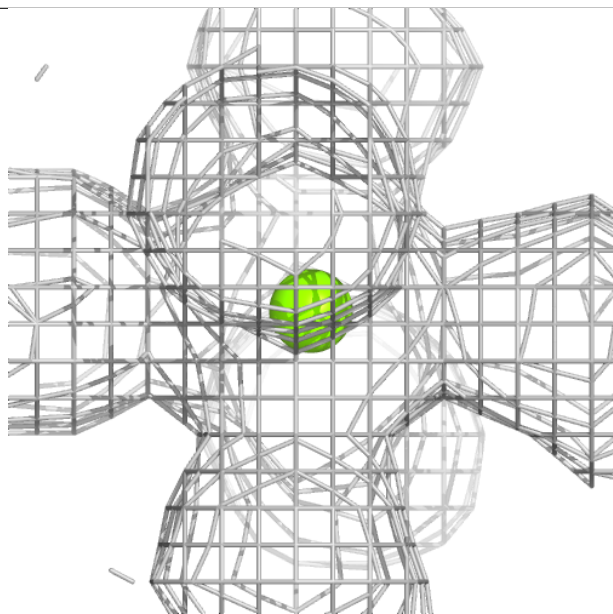
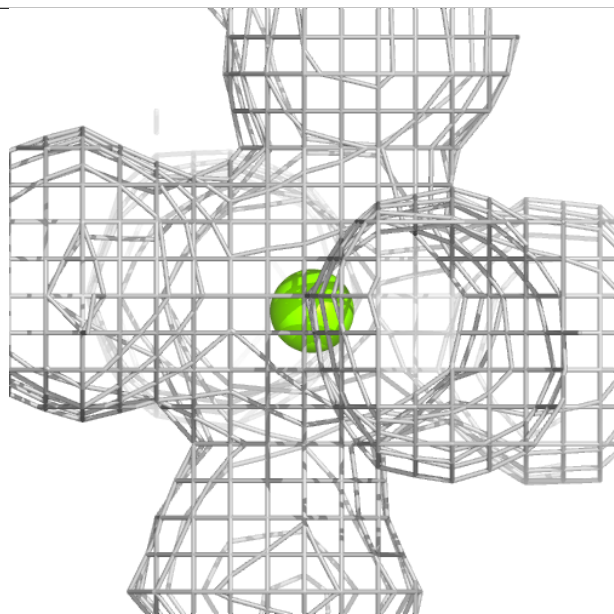
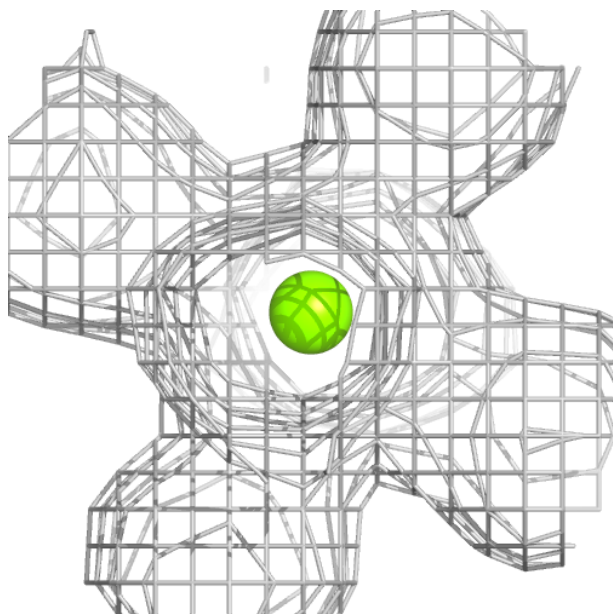
Electron density around MG A 701:

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



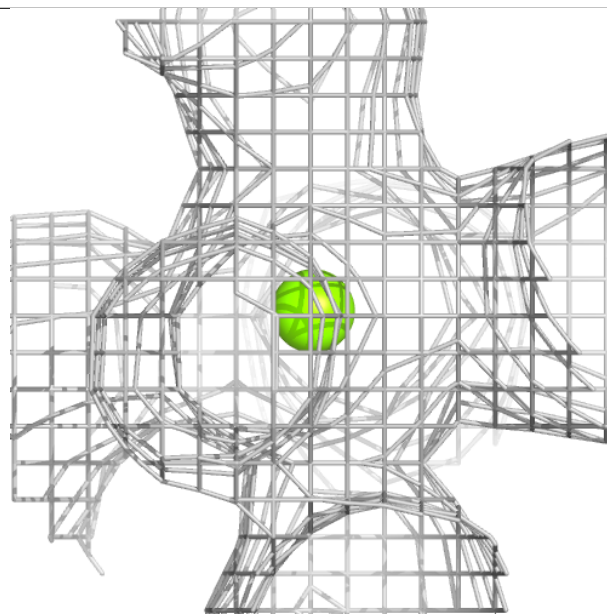
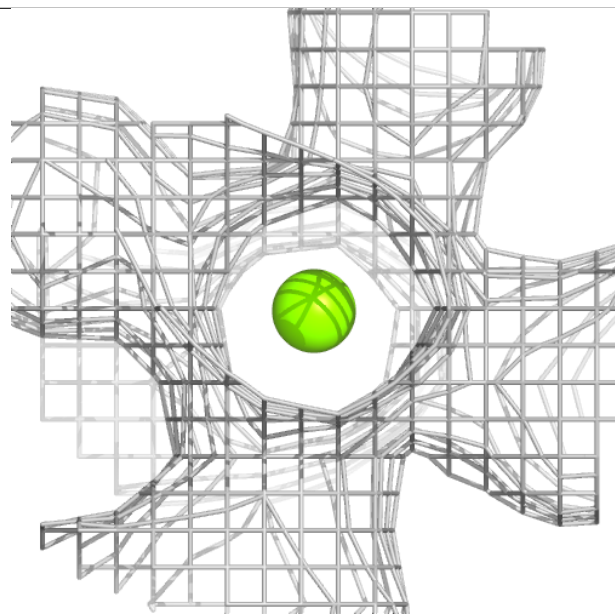
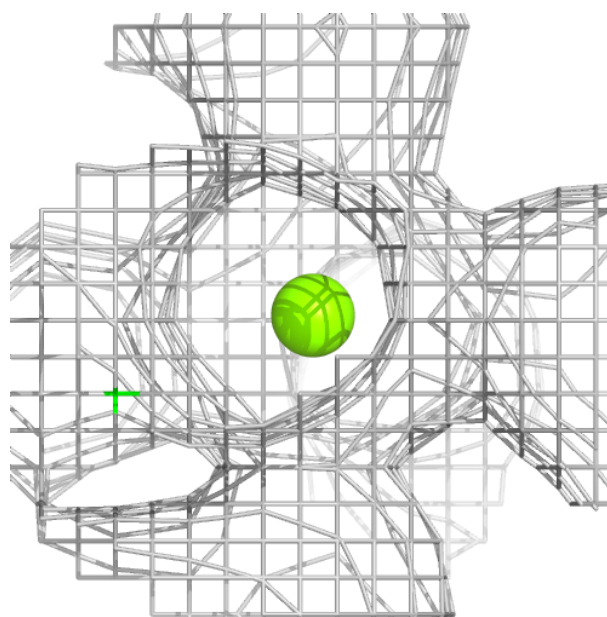
Electron density around MG A 703:

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



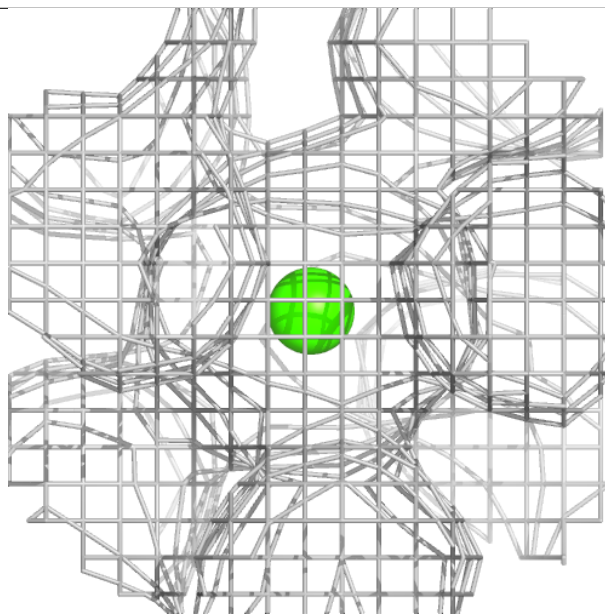
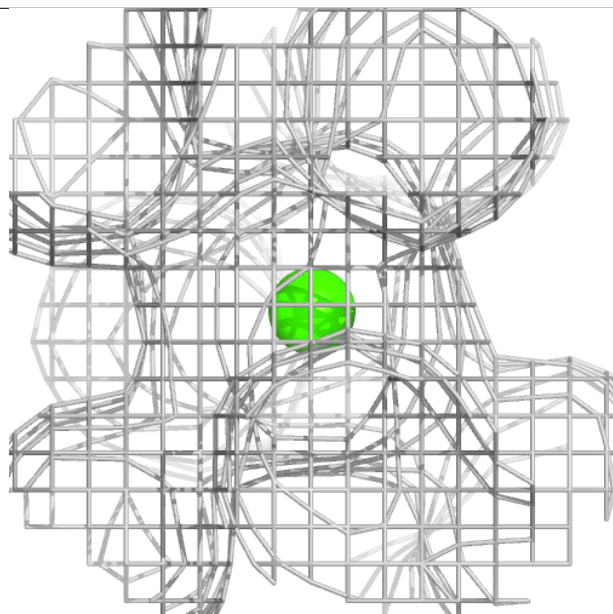
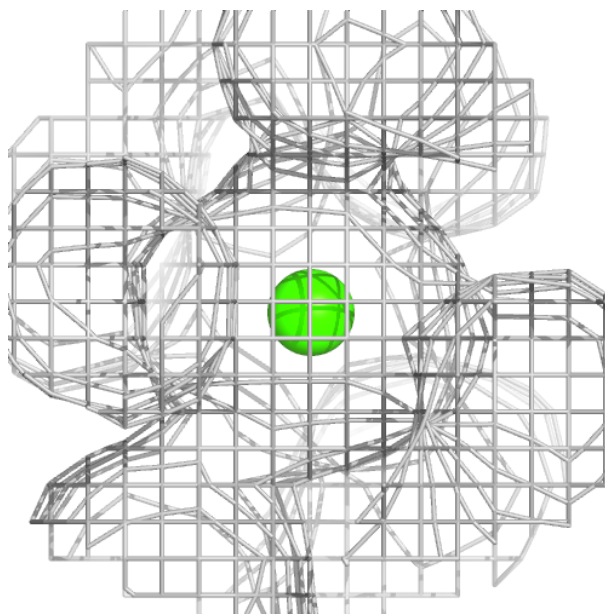
Electron density around MG B 701:

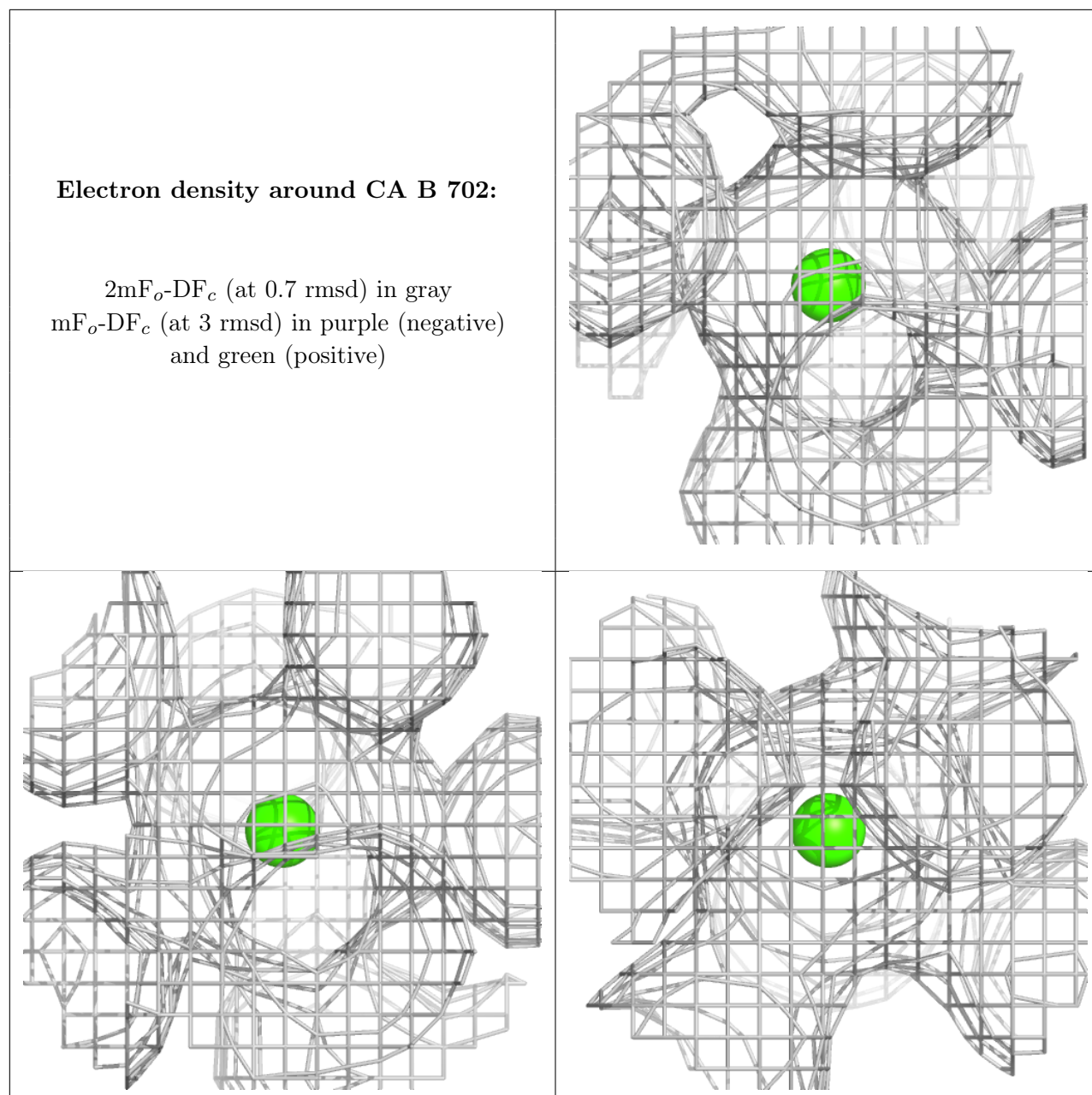
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CA A 702:

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





6.5 Other polymers [i](#)

There are no such residues in this entry.