



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 10:16 PM UTC

PDB ID : 6L25 / pdb_00006L25
Title : Deoxyribonuclease from Staphylococcus aureus
Authors : Lee, K.-Y.; Kim, D.-G.; Lee, B.-J.
Deposited on : 2019-10-02
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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

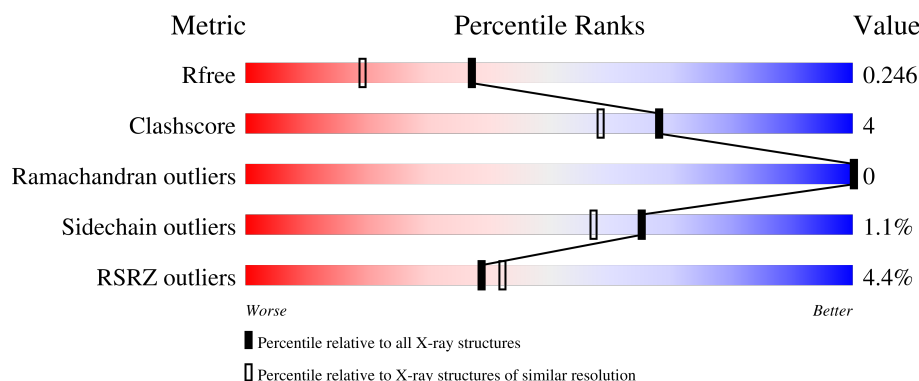
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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}	180053	3428 (1.86-1.86)
Clashscore	190562	3579 (1.86-1.86)
Ramachandran outliers	187476	3553 (1.86-1.86)
Sidechain outliers	187428	3553 (1.86-1.86)
RSRZ outliers	180081	3429 (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	273	
1	B	273	

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
3	PO4	A	303	-	X	-	-
3	PO4	A	304	-	X	-	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4283 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 Deoxyribonuclease YcfH.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	255	Total	C	N	O	S	Se	0	0	0
			2048	1303	347	390	2	6			
1	B	254	Total	C	N	O	S	Se	0	0	0
			2040	1297	346	389	2	6			

There are 34 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-15	HIS	-	expression tag	UNP W8U6D8
A	-14	HIS	-	expression tag	UNP W8U6D8
A	-13	HIS	-	expression tag	UNP W8U6D8
A	-12	HIS	-	expression tag	UNP W8U6D8
A	-11	HIS	-	expression tag	UNP W8U6D8
A	-10	HIS	-	expression tag	UNP W8U6D8
A	-9	SER	-	expression tag	UNP W8U6D8
A	-8	SER	-	expression tag	UNP W8U6D8
A	-7	GLY	-	expression tag	UNP W8U6D8
A	-6	LEU	-	expression tag	UNP W8U6D8
A	-5	VAL	-	expression tag	UNP W8U6D8
A	-4	PRO	-	expression tag	UNP W8U6D8
A	-3	ARG	-	expression tag	UNP W8U6D8
A	-2	GLY	-	expression tag	UNP W8U6D8
A	-1	SER	-	expression tag	UNP W8U6D8
A	0	HIS	-	expression tag	UNP W8U6D8
A	1	MSE	-	expression tag	UNP W8U6D8
B	-15	HIS	-	expression tag	UNP W8U6D8
B	-14	HIS	-	expression tag	UNP W8U6D8
B	-13	HIS	-	expression tag	UNP W8U6D8
B	-12	HIS	-	expression tag	UNP W8U6D8
B	-11	HIS	-	expression tag	UNP W8U6D8
B	-10	HIS	-	expression tag	UNP W8U6D8
B	-9	SER	-	expression tag	UNP W8U6D8
B	-8	SER	-	expression tag	UNP W8U6D8

Continued on next page...

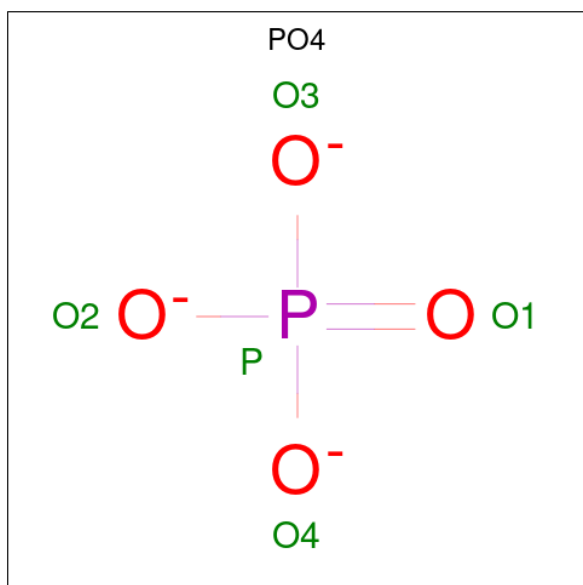
Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
B	-7	GLY	-	expression tag	UNP W8U6D8
B	-6	LEU	-	expression tag	UNP W8U6D8
B	-5	VAL	-	expression tag	UNP W8U6D8
B	-4	PRO	-	expression tag	UNP W8U6D8
B	-3	ARG	-	expression tag	UNP W8U6D8
B	-2	GLY	-	expression tag	UNP W8U6D8
B	-1	SER	-	expression tag	UNP W8U6D8
B	0	HIS	-	expression tag	UNP W8U6D8
B	1	MSE	-	expression tag	UNP W8U6D8

- Molecule 2 is NICKEL (II) ION (CCD ID: NI) (formula: Ni) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Ni 2 2	0	0
2	B	2	Total Ni 2 2	0	0

- Molecule 3 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total O P 5 4 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	P	0	0
			5	4	1		
3	B	1	Total	O	P	0	0
			5	4	1		
3	B	1	Total	O	P	0	0
			5	4	1		

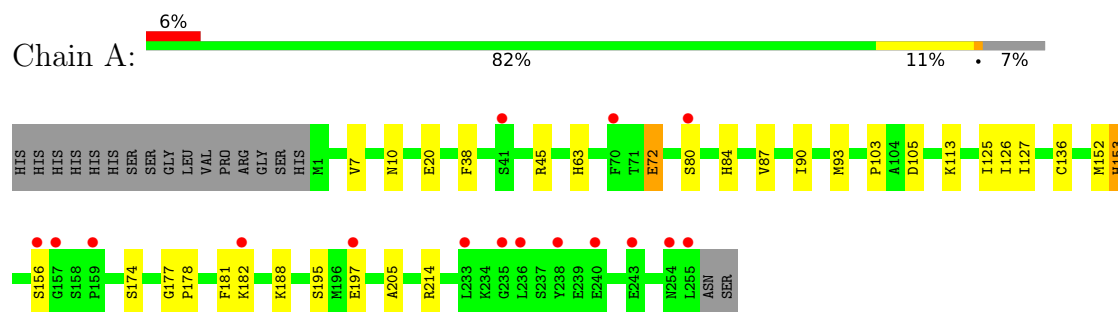
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	62	Total	O	0	0
			62	62		
4	B	109	Total	O	0	0
			109	109		

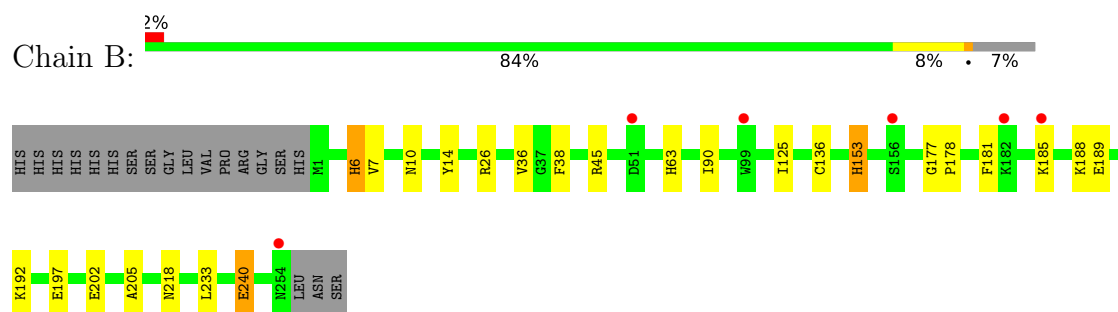
3 Residue-property plots

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 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: Deoxyribonuclease YcfH



• Molecule 1: Deoxyribonuclease YcfH



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	47.63Å 77.83Å 77.38Å 90.00° 98.81° 90.00°	Depositor
Resolution (Å)	30.00 – 1.85 30.00 – 1.85	Depositor EDS
% Data completeness (in resolution range)	97.6 (30.00-1.85) 97.6 (30.00-1.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.83 (at 1.85Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.210 , 0.236 0.219 , 0.246	Depositor DCC
R_{free} test set	2398 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	21.6	Xtriage
Anisotropy	0.229	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 25.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4283	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.05% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: NI, PO4

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	1.13	1/2087 (0.0%)	1.41	4/2817 (0.1%)
1	B	1.17	4/2079 (0.2%)	1.41	1/2806 (0.0%)
All	All	1.15	5/4166 (0.1%)	1.41	5/5623 (0.1%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	153	HIS	CE1-NE2	7.13	1.39	1.32
1	B	36	VAL	C-O	-5.71	1.18	1.24
1	B	6	HIS	CE1-NE2	5.64	1.38	1.32
1	B	26	ARG	C-O	5.29	1.30	1.24
1	A	20	GLU	C-O	5.14	1.30	1.24

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	72	GLU	CA-C-N	5.65	127.85	120.28
1	A	72	GLU	C-N-CA	5.65	127.85	120.28
1	A	136	CYS	CB-CA-C	-5.16	102.75	110.90
1	B	136	CYS	N-CA-CB	5.06	117.40	110.07
1	A	80	SER	CA-C-O	-5.02	115.73	121.00

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	2048	0	2025	16	0
1	B	2040	0	2014	13	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	10	0	0	0	0
3	B	10	0	0	0	0
4	A	62	0	0	0	0
4	B	109	0	0	1	0
All	All	4283	0	4039	29	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 4.

All (29) 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:A:127:ILE:HG13	1:A:152:MSE:HE1	1.62	0.81
1:B:10:ASN:O	1:B:45:ARG:HD3	1.99	0.61
1:A:127:ILE:HG13	1:A:152:MSE:CE	2.32	0.58
1:A:181:PHE:O	1:A:188:LYS:HE2	2.03	0.58
1:A:38:PHE:HB2	1:A:63:HIS:HB2	1.91	0.53
1:B:240:GLU:HG3	4:B:492:HOH:O	2.10	0.52
1:B:185:LYS:O	1:B:189:GLU:HG2	2.09	0.52
1:B:181:PHE:O	1:B:188:LYS:HE2	2.11	0.51
1:B:38:PHE:HB2	1:B:63:HIS:HB2	1.92	0.50
1:A:10:ASN:O	1:A:45:ARG:HD3	2.12	0.50
1:A:72:GLU:OE2	1:A:113:LYS:NZ	2.46	0.48
1:A:90:ILE:HG22	1:A:93:MSE:CE	2.46	0.46
1:A:125:ILE:C	1:A:126:ILE:HD12	2.41	0.45
1:B:192:LYS:HE3	1:B:233:LEU:HD22	1.98	0.45
1:B:14:TYR:OH	1:B:205:ALA:HB1	2.17	0.45
1:B:90:ILE:O	1:B:125:ILE:HA	2.16	0.45
1:B:7:VAL:HG23	1:B:205:ALA:HB3	1.99	0.44
1:A:84:HIS:HB3	1:A:87:VAL:HG23	2.00	0.43
1:A:153:HIS:HA	1:A:174:SER:OG	2.19	0.43
1:A:178:PRO:HA	1:A:181:PHE:CD2	2.54	0.43
1:A:177:GLY:N	1:A:178:PRO:CD	2.81	0.43
1:A:103:PRO:HB2	1:A:105:ASP:OD1	2.19	0.43
1:A:7:VAL:HG23	1:A:205:ALA:HB3	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:6:HIS:HB3	1:B:202:GLU:HB2	2.00	0.42
1:A:156:SER:O	1:A:156:SER:OG	2.34	0.42
1:B:177:GLY:N	1:B:178:PRO:CD	2.83	0.41
1:B:197:GLU:CD	1:B:197:GLU:O	2.64	0.40
1:B:205:ALA:HA	1:B:218:ASN:HB3	2.03	0.40
1:A:195:SER:OG	1:A:197:GLU:HG2	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	253/273 (93%)	247 (98%)	6 (2%)	0	100	100
1	B	252/273 (92%)	246 (98%)	6 (2%)	0	100	100
All	All	505/546 (92%)	493 (98%)	12 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	223/233 (96%)	220 (99%)	3 (1%)	61	51
1	B	222/233 (95%)	220 (99%)	2 (1%)	70	64

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	445/466 (96%)	440 (99%)	5 (1%)	65	57

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	153	HIS
1	A	182	LYS
1	A	214	ARG
1	B	153	HIS
1	B	240	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	83	GLN
1	A	170	ASN
1	A	186	GLN
1	B	229	GLN

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](#)

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 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
3	PO4	A	303	2	4,4,4	2.31	3 (75%)	6,6,6	1.20	1 (16%)
3	PO4	B	304	2	4,4,4	0.85	0	6,6,6	0.52	0
3	PO4	A	304	2	4,4,4	2.63	4 (100%)	6,6,6	0.79	0
3	PO4	B	303	2	4,4,4	3.00	2 (50%)	6,6,6	0.69	0

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	303	PO4	P-O1	-4.68	1.39	1.50
3	B	303	PO4	P-O4	-3.49	1.44	1.54
3	A	304	PO4	P-O4	-3.38	1.44	1.54
3	A	303	PO4	P-O3	-3.24	1.45	1.54
3	A	304	PO4	P-O2	-2.54	1.47	1.54
3	A	303	PO4	P-O1	-2.40	1.45	1.50
3	A	304	PO4	P-O3	-2.34	1.47	1.54
3	A	303	PO4	P-O2	-2.24	1.48	1.54
3	A	304	PO4	P-O1	-2.06	1.45	1.50

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	303	PO4	O4-P-O1	-2.28	102.89	110.95

There are no chirality outliers.

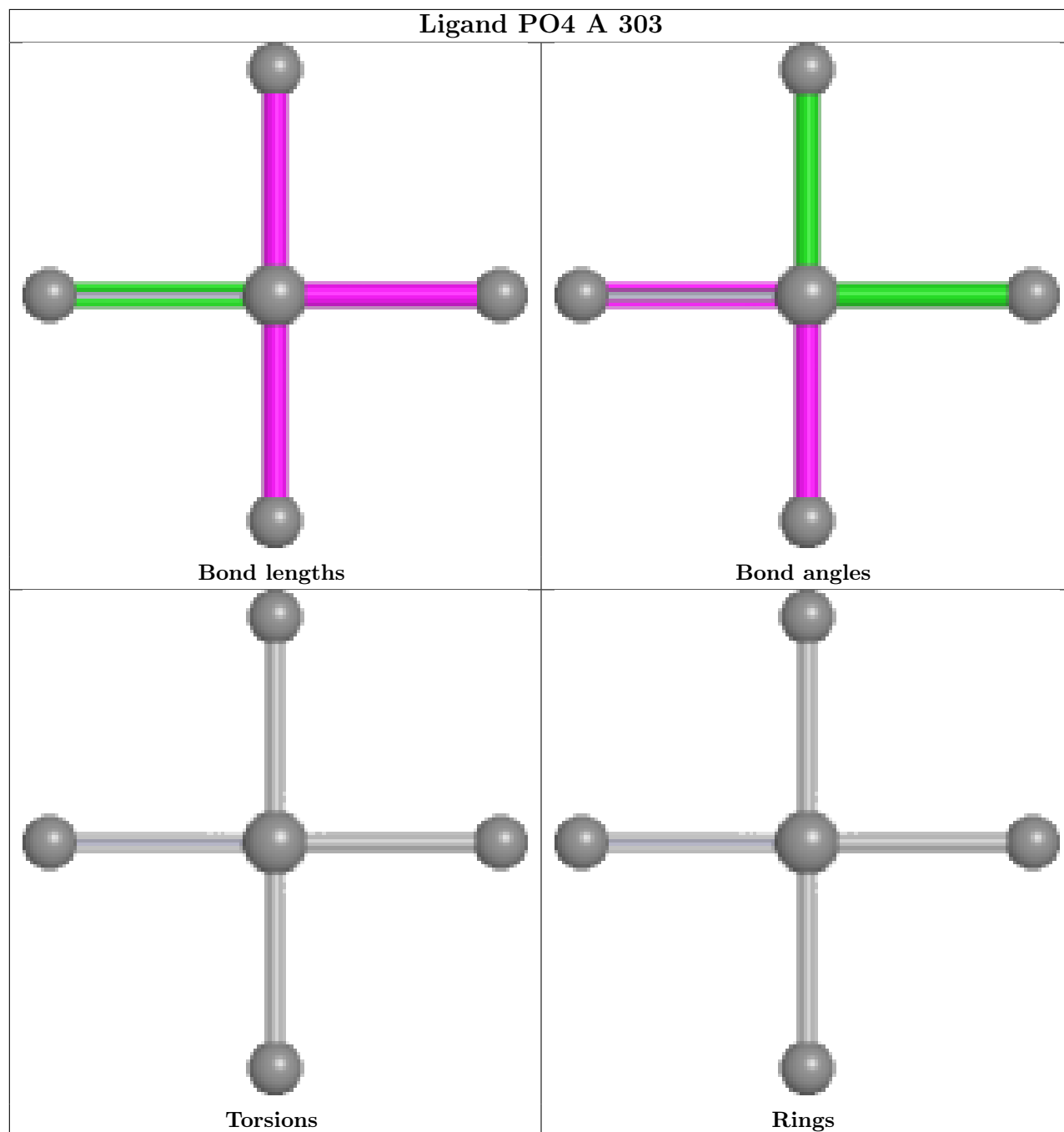
There are no torsion outliers.

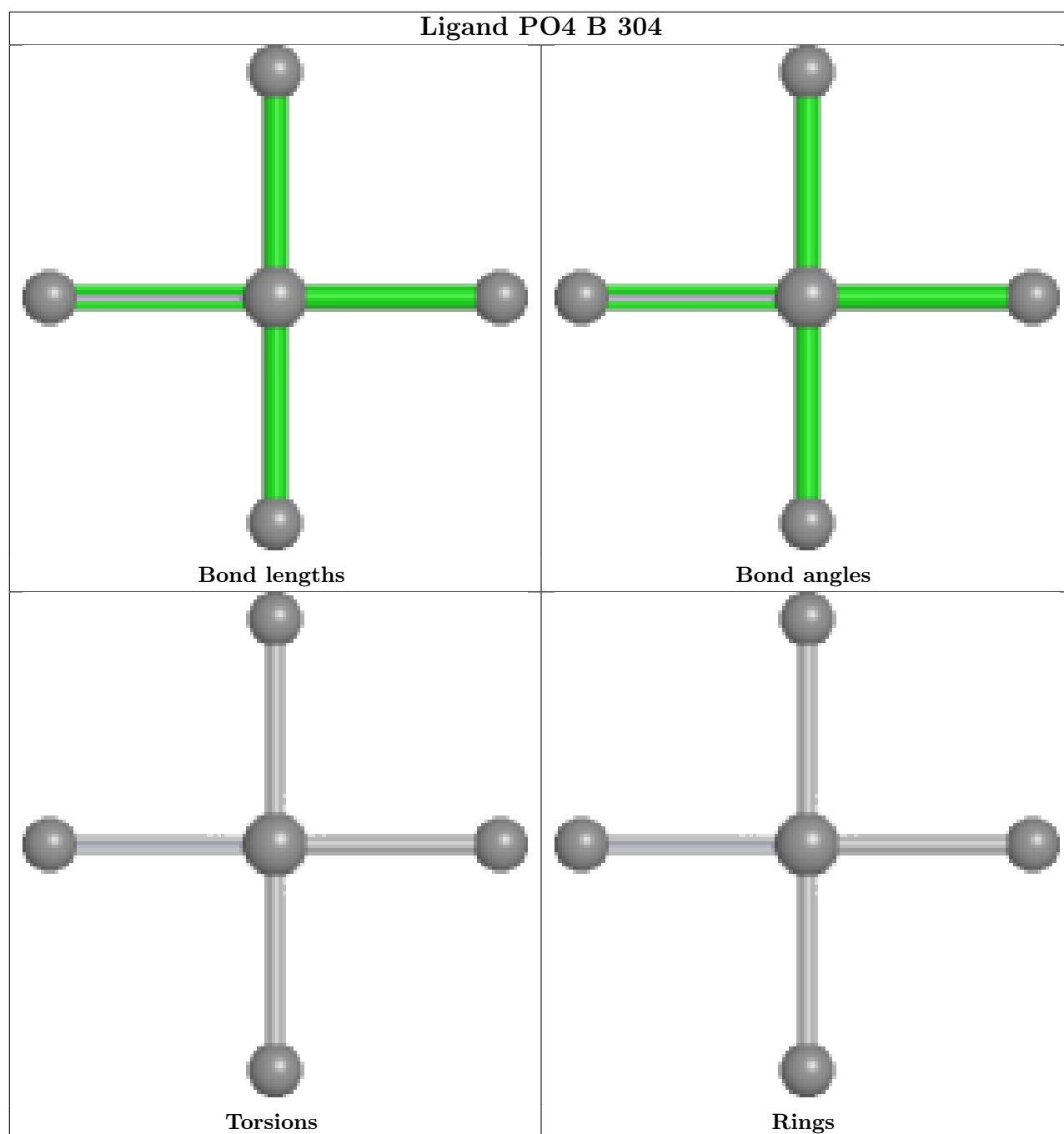
There are no ring outliers.

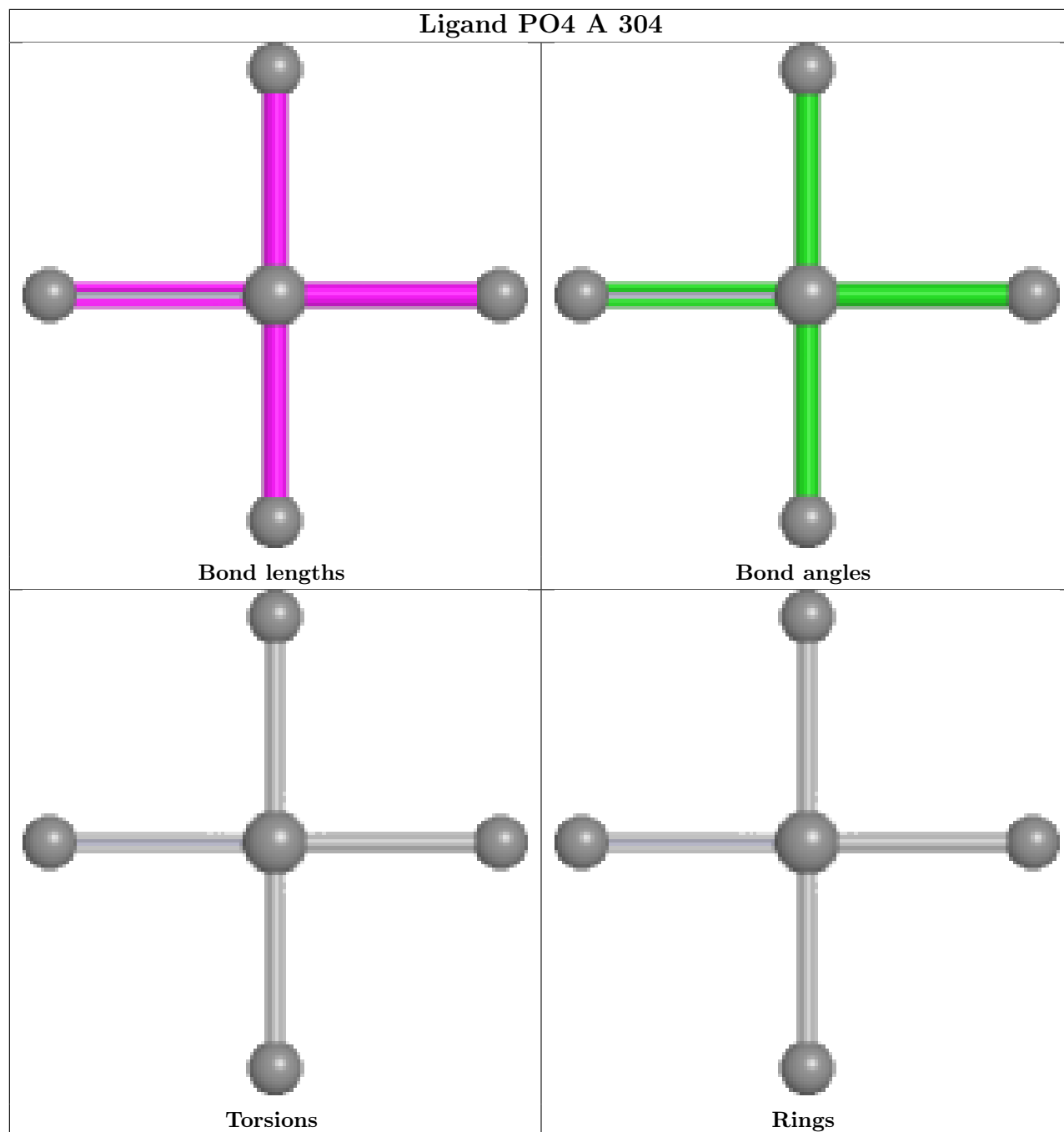
No monomer is involved in short contacts.

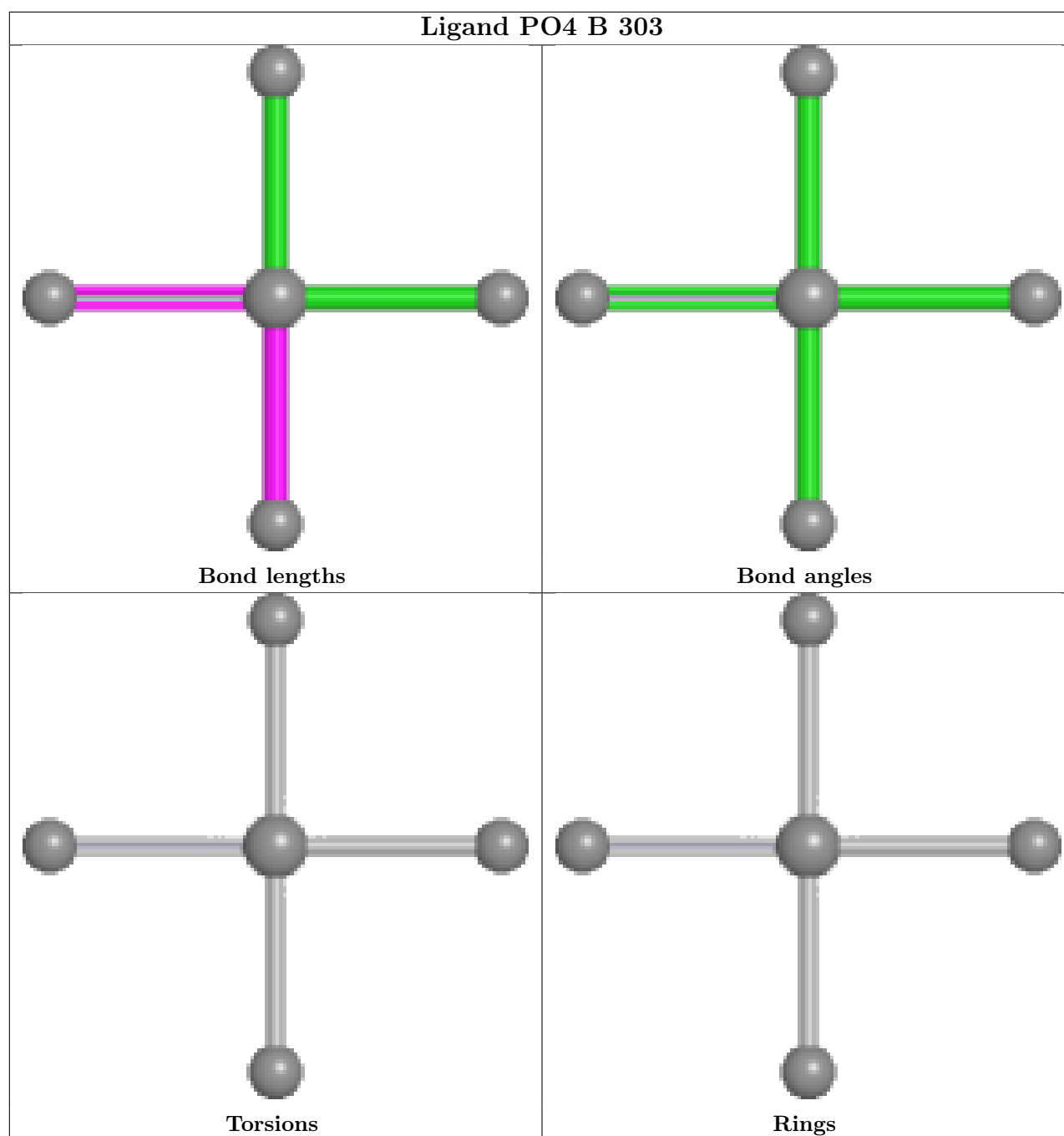
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









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	249/273 (91%)	0.65	16 (6%) 25 27	17, 28, 47, 59	0
1	B	248/273 (90%)	0.33	6 (2%) 59 63	15, 23, 37, 51	0
All	All	497/546 (91%)	0.49	22 (4%) 39 42	15, 25, 43, 59	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	255	LEU	4.6
1	A	156	SER	3.5
1	B	254	ASN	3.5
1	A	233	LEU	3.0
1	A	157	GLY	2.9
1	A	235	GLY	2.6
1	A	243	GLU	2.5
1	B	182	LYS	2.5
1	A	197	GLU	2.4
1	A	182	LYS	2.3
1	A	80	SER	2.3
1	A	240	GLU	2.3
1	B	185	LYS	2.2
1	B	156	SER	2.2
1	A	236	LEU	2.2
1	A	70	PHE	2.1
1	B	51	ASP	2.1
1	A	41	SER	2.1
1	A	159	PRO	2.1
1	A	238	TYR	2.0
1	A	254	ASN	2.0
1	B	99	TRP	2.0

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

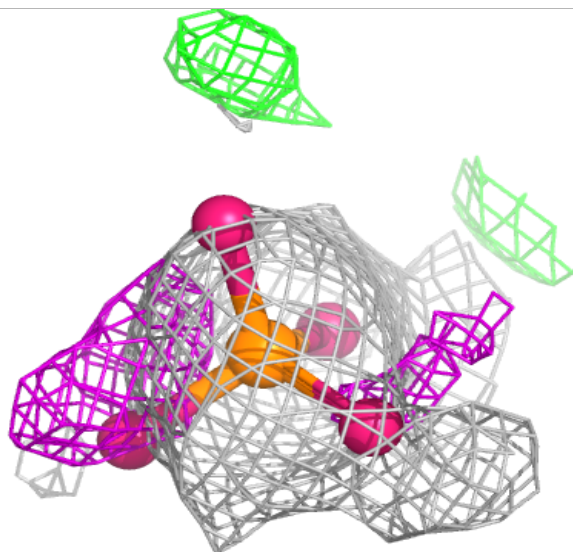
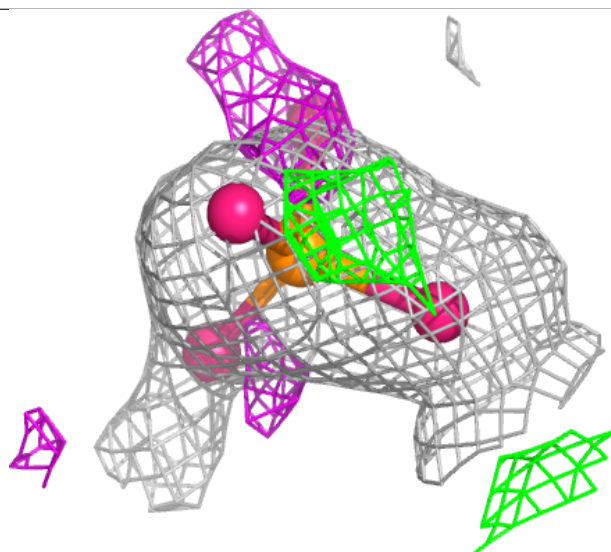
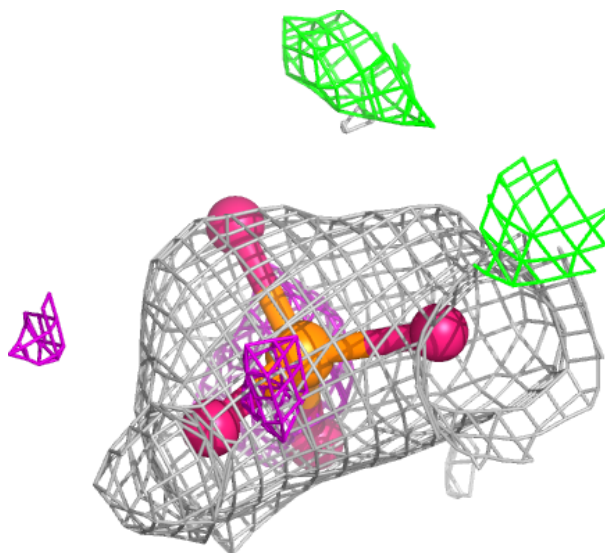
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	PO4	B	304	5/5	0.88	0.20	29,30,47,52	0
3	PO4	A	304	5/5	0.91	0.16	32,35,53,54	0
3	PO4	B	303	5/5	0.97	0.09	14,22,28,32	0
3	PO4	A	303	5/5	0.97	0.11	15,22,34,36	0
2	NI	B	301	1/1	0.98	0.03	19,19,19,19	0
2	NI	B	302	1/1	0.98	0.04	23,23,23,23	0
2	NI	A	301	1/1	0.99	0.03	23,23,23,23	0
2	NI	A	302	1/1	0.99	0.02	23,23,23,23	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.

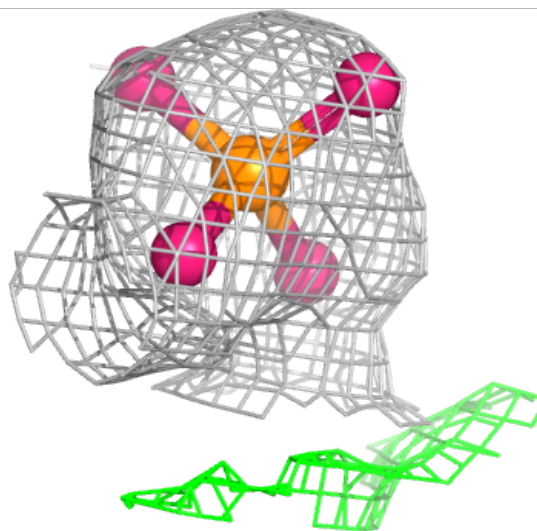
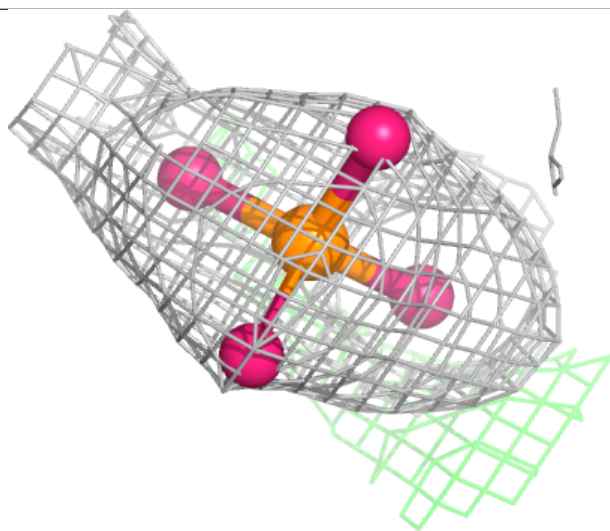
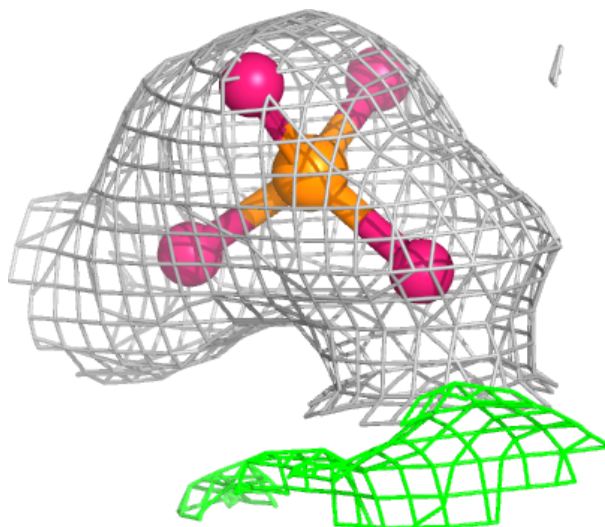
Electron density around PO4 B 304:

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



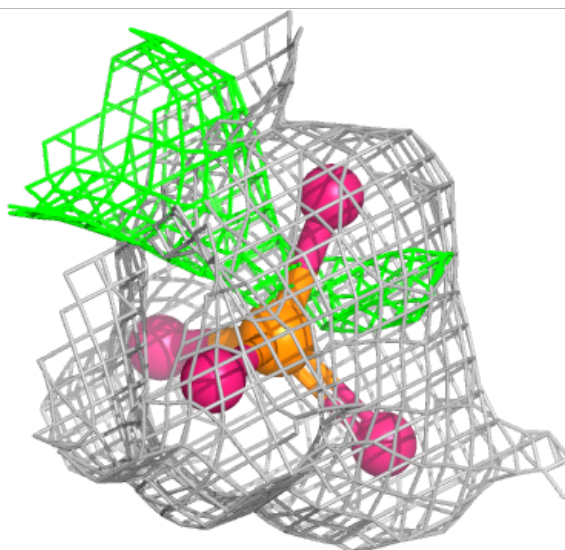
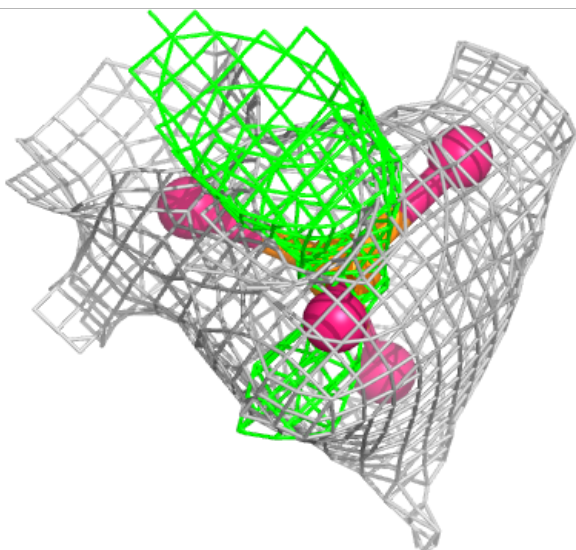
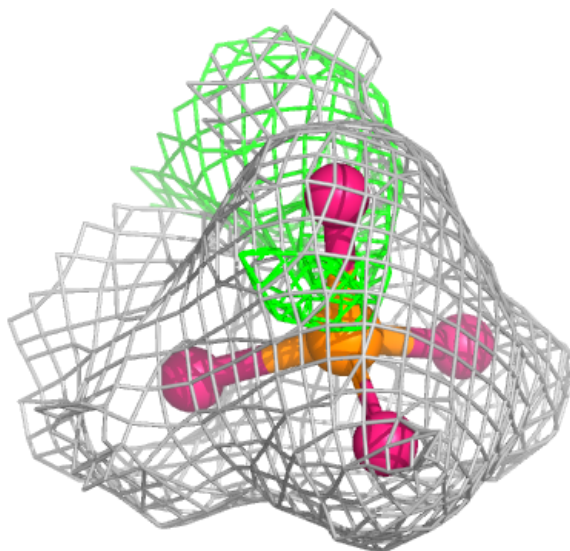
Electron density around PO4 A 304:

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



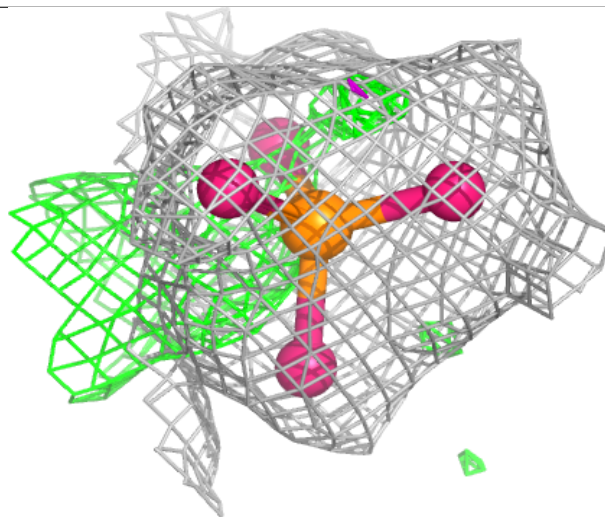
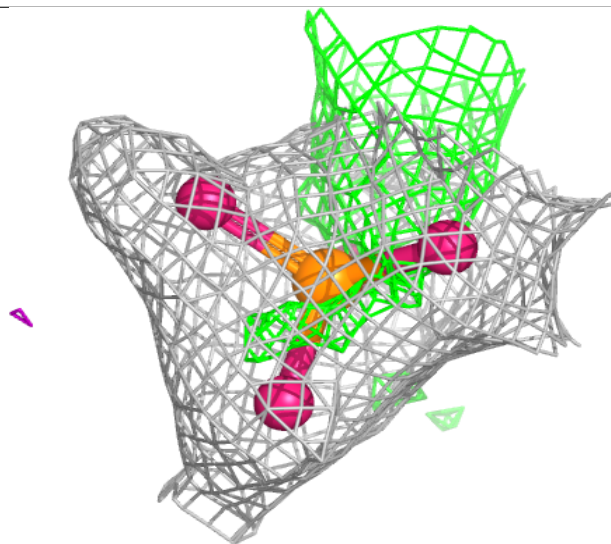
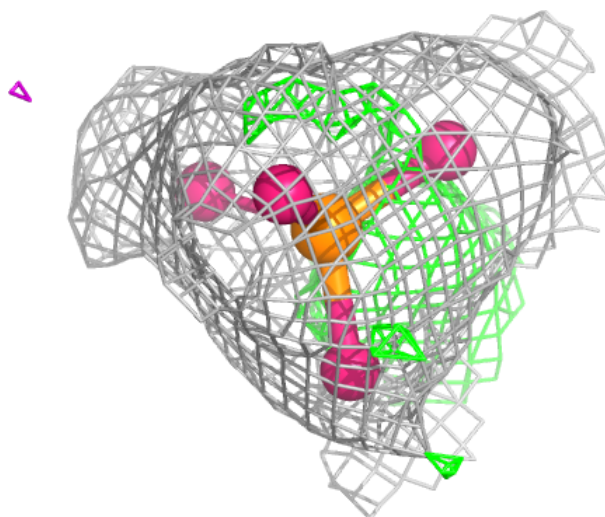
Electron density around PO4 B 303:

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



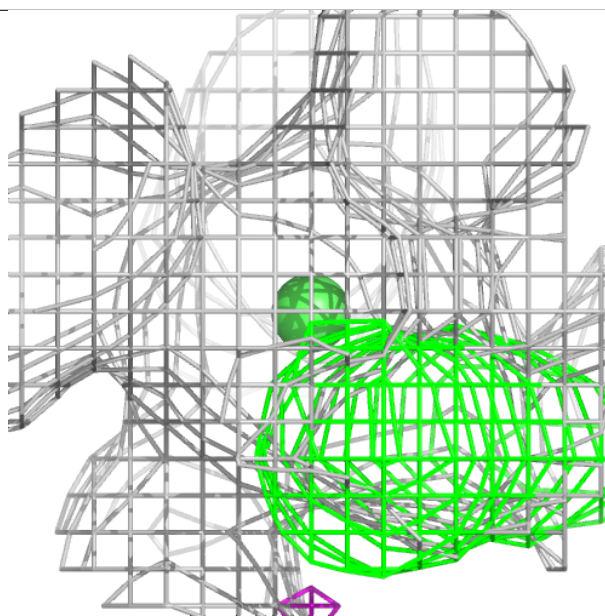
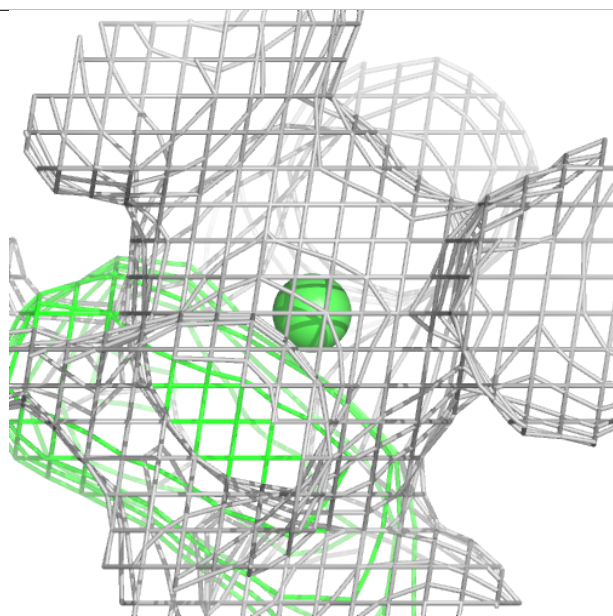
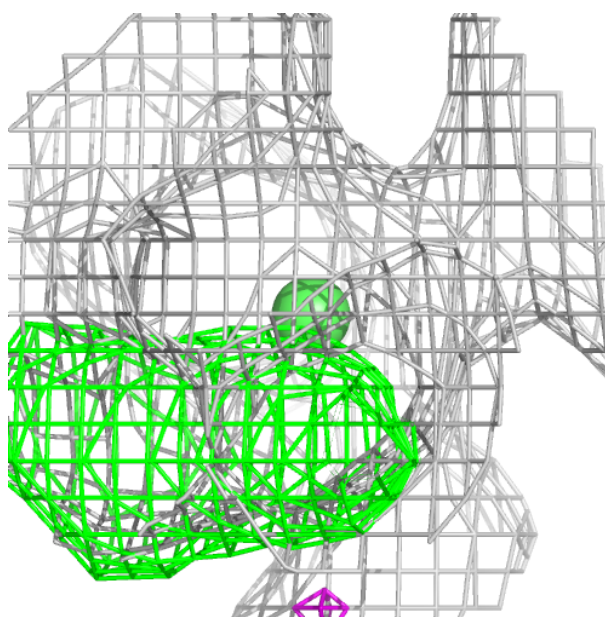
Electron density around PO4 A 303:

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



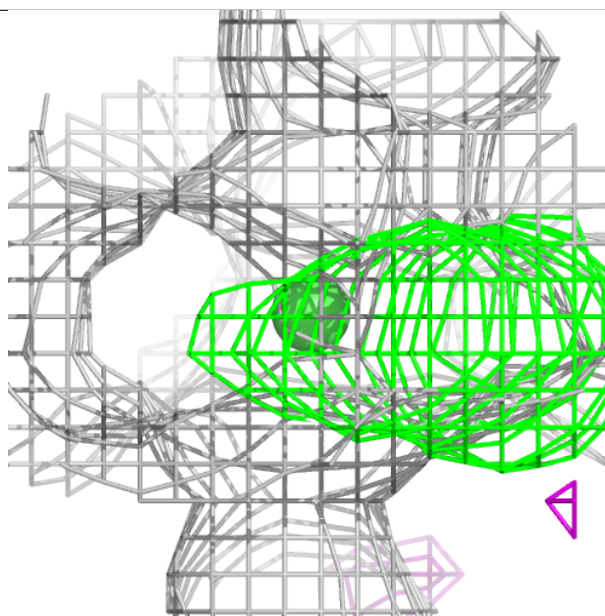
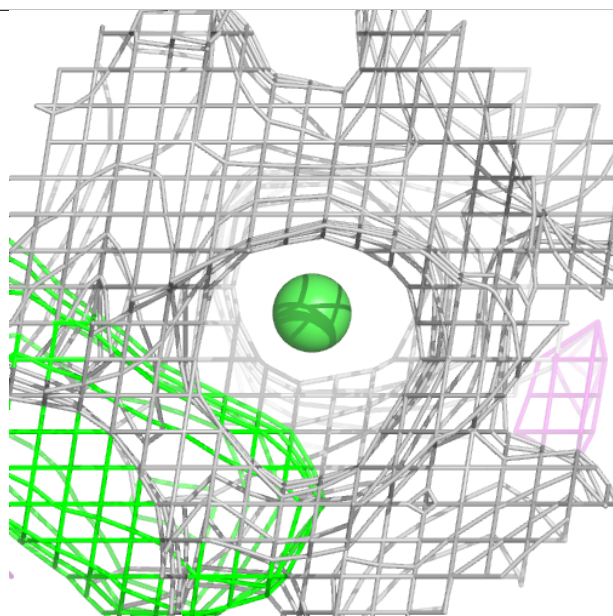
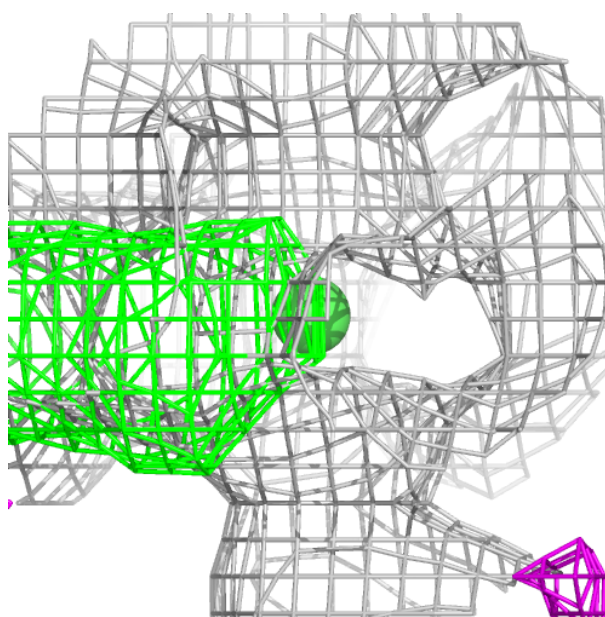
Electron density around NI B 301:

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



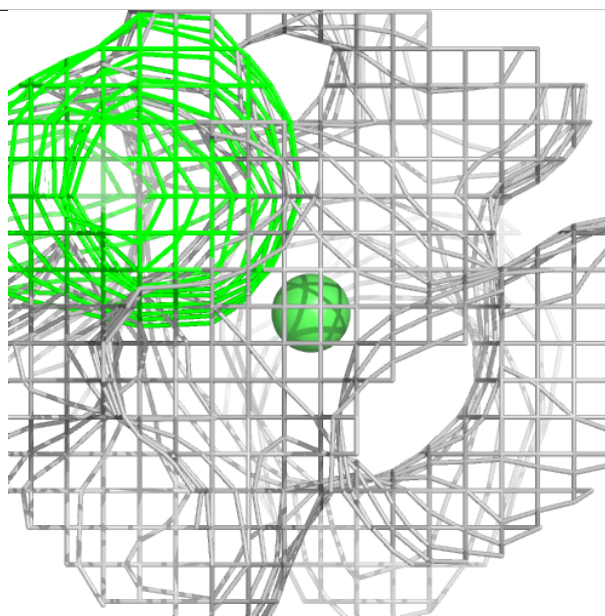
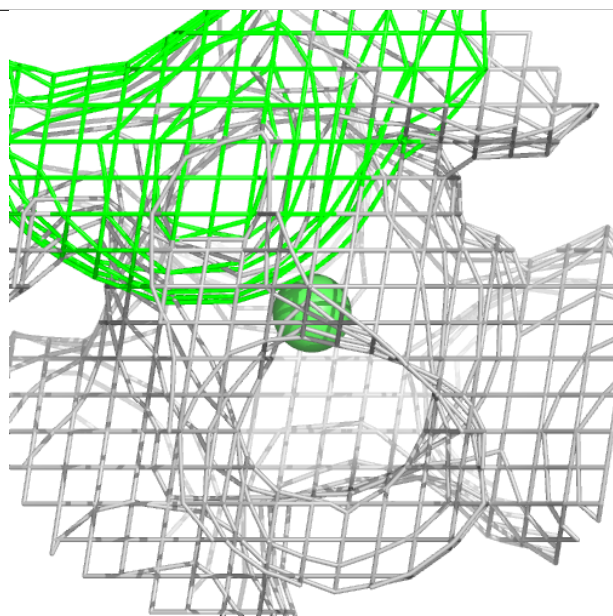
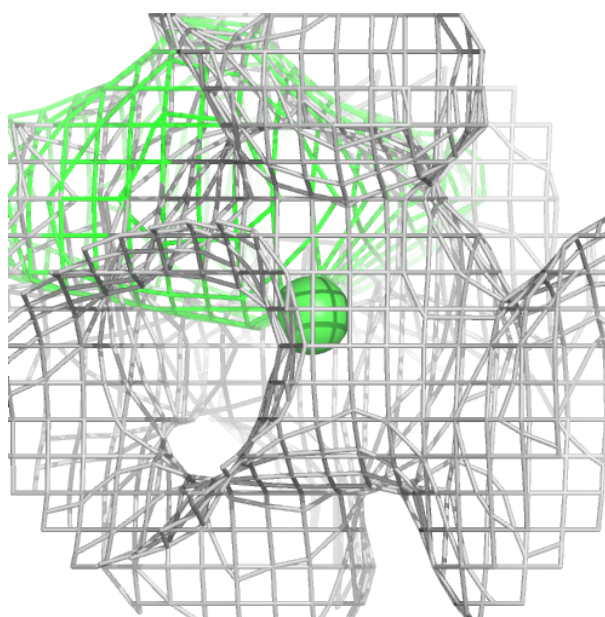
Electron density around NI B 302:

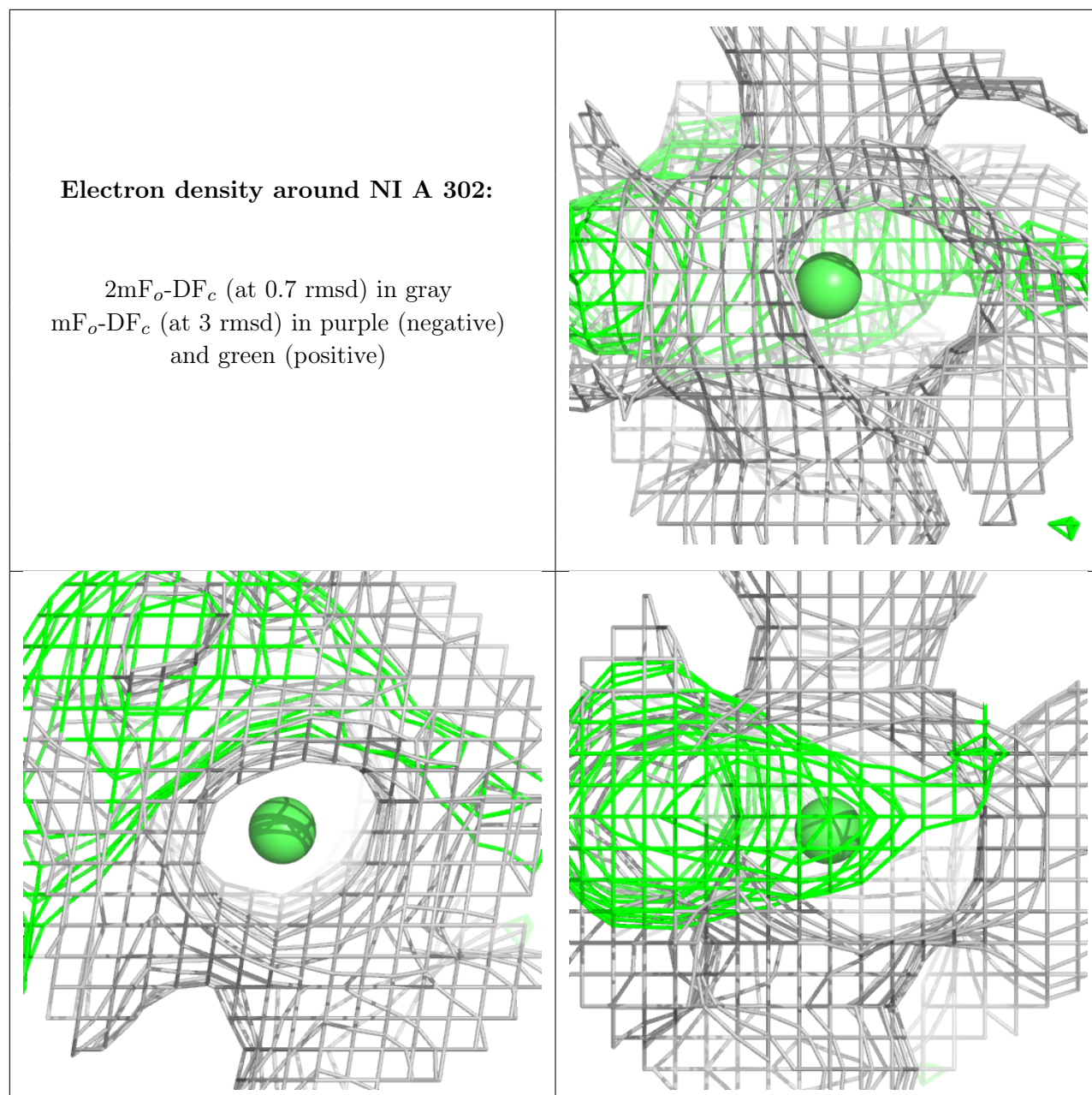
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around NI A 301:

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





6.5 Other polymers ⓘ

There are no such residues in this entry.