



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 26, 2023 – 10:47 PM EDT

PDB ID : 3GLA
Title : Crystal Structure of the hspA from Xanthomonas axonopodis
Authors : Hilario, E.; Medrano, F.J.; Bertolini, M.C.
Deposited on : 2009-03-11
Resolution : 1.64 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 : 2.35
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) : 2.35

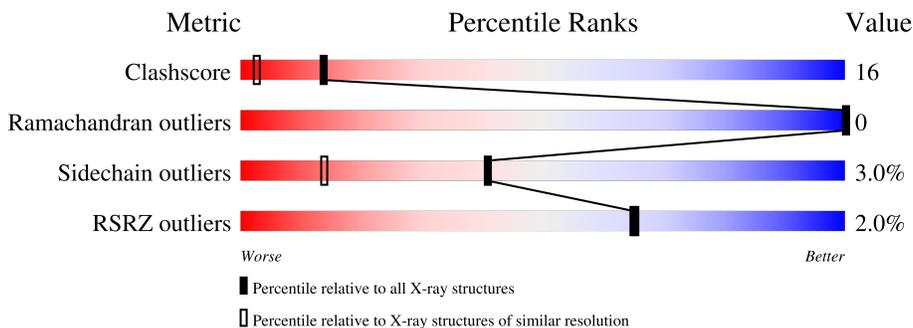
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.64 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	3268 (1.66-1.62)
Ramachandran outliers	138981	3215 (1.66-1.62)
Sidechain outliers	138945	3215 (1.66-1.62)
RSRZ outliers	127900	3079 (1.66-1.62)

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	100	
1	B	100	

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
2	PO4	A	1	-	X	-	-
2	PO4	B	2	-	X	X	-

2 Entry composition [i](#)

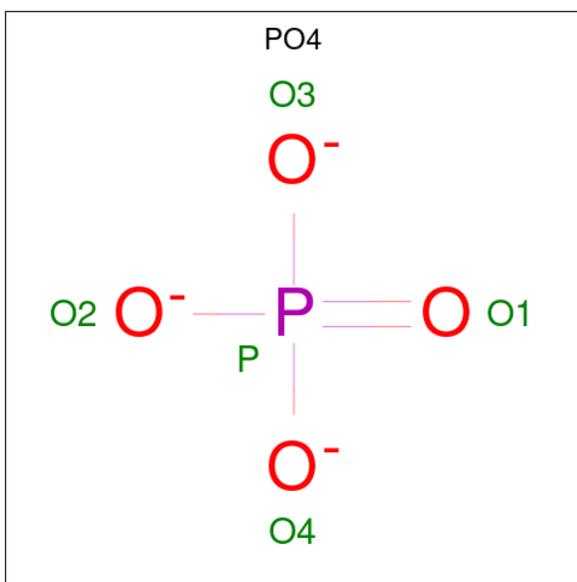
There are 3 unique types of molecules in this entry. The entry contains 1886 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Low molecular weight heat shock protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	97	Total 784	C 485	N 150	O 148	S 1	0	2	0
1	B	99	Total 792	C 492	N 149	O 150	S 1	0	1	0

- Molecule 2 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



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

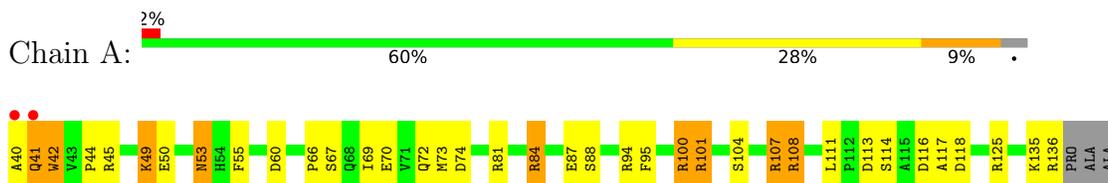
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	141	Total 141	O 141	0	0
3	B	159	Total 159	O 159	0	0

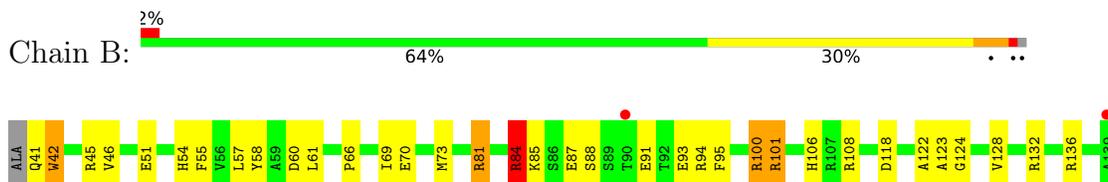
3 Residue-property plots [i](#)

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: Low molecular weight heat shock protein



- Molecule 1: Low molecular weight heat shock protein



4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	128.67Å 128.67Å 55.25Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	26.97 – 1.64 26.97 – 1.64	Depositor EDS
% Data completeness (in resolution range)	100.0 (26.97-1.64) 100.0 (26.97-1.64)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.87 (at 1.64Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.184 , (Not available) 0.179 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	23.3	Xtrriage
Anisotropy	0.010	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 43.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	0.014 for h,-h-k,-l	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	1886	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.20% 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: 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	1.68	11/810 (1.4%)	2.02	21/1089 (1.9%)
1	B	1.88	16/812 (2.0%)	2.41	17/1094 (1.6%)
All	All	1.78	27/1622 (1.7%)	2.23	38/2183 (1.7%)

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
1	B	0	1
All	All	0	2

All (27) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	84	ARG	CD-NE	-10.61	1.28	1.46
1	B	87	GLU	CG-CD	10.53	1.67	1.51
1	B	100	ARG	CD-NE	-9.56	1.30	1.46
1	B	87	GLU	CD-OE2	7.81	1.34	1.25
1	B	81	ARG	CB-CG	-7.61	1.32	1.52
1	B	93	GLU	CD-OE2	7.51	1.33	1.25
1	A	72	GLN	CB-CG	-7.26	1.32	1.52
1	B	87	GLU	CD-OE1	7.10	1.33	1.25
1	A	100	ARG	CD-NE	-7.01	1.34	1.46
1	B	108	ARG	CG-CD	6.23	1.67	1.51
1	B	73	MET	CG-SD	-6.20	1.65	1.81
1	A	45	ARG	CG-CD	-6.18	1.36	1.51
1	B	84	ARG	CZ-NH2	-5.99	1.25	1.33
1	A	108	ARG	CG-CD	5.76	1.66	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	70	GLU	CG-CD	5.72	1.60	1.51
1	A	87	GLU	CG-CD	5.57	1.60	1.51
1	B	123	ALA	CA-CB	-5.50	1.41	1.52
1	B	84	ARG	N-CA	-5.47	1.35	1.46
1	B	122	ALA	CA-CB	-5.38	1.41	1.52
1	A	42	TRP	CD2-CE2	5.33	1.47	1.41
1	B	91	GLU	CB-CG	5.26	1.62	1.52
1	A	81	ARG	CB-CG	-5.23	1.38	1.52
1	B	42	TRP	CG-CD1	5.17	1.44	1.36
1	A	50	GLU	CD-OE2	-5.17	1.20	1.25
1	A	81	ARG	CG-CD	5.14	1.64	1.51
1	B	55	PHE	CA-CB	-5.12	1.42	1.53
1	A	49	LYS	CB-CG	-5.03	1.39	1.52

All (38) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	100	ARG	NE-CZ-NH2	-40.89	99.86	120.30
1	B	100	ARG	NE-CZ-NH1	32.87	136.73	120.30
1	A	100	ARG	NE-CZ-NH1	22.38	131.49	120.30
1	A	100	ARG	NE-CZ-NH2	-21.41	109.60	120.30
1	B	84	ARG	NE-CZ-NH2	-17.58	111.51	120.30
1	B	100	ARG	CD-NE-CZ	16.34	146.48	123.60
1	A	113	ASP	CB-CG-OD1	-12.03	107.47	118.30
1	B	108	ARG	NE-CZ-NH2	-10.95	114.82	120.30
1	B	45	ARG	NE-CZ-NH2	-10.92	114.84	120.30
1	A	100	ARG	CD-NE-CZ	10.02	137.63	123.60
1	A	116	ASP	CB-CG-OD1	-9.68	109.59	118.30
1	B	108	ARG	NE-CZ-NH1	9.39	125.00	120.30
1	B	45	ARG	NE-CZ-NH1	9.14	124.87	120.30
1	A	118	ASP	CB-CG-OD2	-8.44	110.70	118.30
1	A	101[A]	ARG	NE-CZ-NH2	-7.86	116.37	120.30
1	A	101[B]	ARG	NE-CZ-NH2	-7.86	116.37	120.30
1	A	101[A]	ARG	NE-CZ-NH1	7.74	124.17	120.30
1	A	101[B]	ARG	NE-CZ-NH1	7.74	124.17	120.30
1	A	113	ASP	CB-CG-OD2	7.53	125.08	118.30
1	B	94	ARG	NE-CZ-NH1	-6.99	116.80	120.30
1	A	107	ARG	NE-CZ-NH2	-6.98	116.81	120.30
1	A	94	ARG	NE-CZ-NH1	6.60	123.60	120.30
1	A	73	MET	CG-SD-CE	6.44	110.51	100.20
1	B	118	ASP	CB-CG-OD2	6.32	123.99	118.30
1	A	111	LEU	CB-CG-CD1	-6.13	100.58	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	94	ARG	NE-CZ-NH2	-6.06	117.27	120.30
1	B	136	ARG	NE-CZ-NH2	6.04	123.32	120.30
1	A	118	ASP	OD1-CG-OD2	5.95	134.60	123.30
1	B	84	ARG	N-CA-CB	-5.76	100.22	110.60
1	B	61	LEU	CB-CG-CD1	-5.63	101.43	111.00
1	A	84	ARG	NE-CZ-NH1	-5.54	117.53	120.30
1	A	55	PHE	CB-CG-CD1	-5.47	116.97	120.80
1	B	87	GLU	OE1-CD-OE2	-5.43	116.78	123.30
1	A	81	ARG	CG-CD-NE	-5.33	100.60	111.80
1	B	84	ARG	CD-NE-CZ	5.31	131.04	123.60
1	B	108	ARG	CD-NE-CZ	5.08	130.71	123.60
1	A	111	LEU	CA-CB-CG	-5.07	103.64	115.30
1	B	136	ARG	NE-CZ-NH1	-5.02	117.79	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	84	ARG	Sidechain
1	B	84	ARG	Sidechain

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	784	0	774	22	0
1	B	792	0	785	31	0
2	A	5	0	0	0	0
2	B	5	0	0	2	0
3	A	141	0	0	9	0
3	B	159	0	0	9	0
All	All	1886	0	1559	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 16.

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)
1:B:101:ARG:CG	1:B:101:ARG:HH21	1.52	1.18
1:B:101:ARG:HH21	1:B:101:ARG:HG3	1.03	1.17
1:A:41:GLN:HG2	3:A:206:HOH:O	1.45	1.15
1:B:101:ARG:HG3	1:B:101:ARG:NH2	1.76	0.95
1:B:132:ARG:NH1	3:B:243:HOH:O	2.00	0.89
1:A:125:ARG:HD2	3:A:157:HOH:O	1.72	0.89
1:B:42:TRP:CZ3	1:B:84:ARG:HB2	2.11	0.85
1:B:101:ARG:CG	1:B:101:ARG:NH2	2.24	0.85
1:B:101:ARG:HH21	1:B:101:ARG:HG2	1.48	0.76
1:B:42:TRP:CZ3	1:B:84:ARG:CB	2.75	0.69
1:B:42:TRP:CH2	1:B:84:ARG:HD2	2.30	0.66
1:B:81:ARG:CD	3:B:236:HOH:O	2.46	0.63
1:A:74:ASP:HB2	3:A:182:HOH:O	2.00	0.62
1:B:70:GLU:HG2	3:B:236:HOH:O	1.99	0.61
1:B:101:ARG:CZ	3:B:165:HOH:O	2.48	0.61
1:B:70:GLU:HB3	1:B:81:ARG:HG2	1.83	0.61
1:A:44:PRO:HD2	1:A:107:ARG:HD3	1.84	0.59
1:B:42:TRP:HZ3	1:B:84:ARG:HB2	1.62	0.58
1:A:53:ASN:HD22	1:A:53:ASN:C	2.07	0.56
1:B:81:ARG:HD2	3:B:236:HOH:O	2.05	0.56
1:B:54:HIS:HE1	3:B:219:HOH:O	1.89	0.55
1:B:88:SER:HA	1:B:95:PHE:CZ	2.42	0.54
1:A:88:SER:HA	1:A:95:PHE:CZ	2.44	0.53
1:A:42:TRP:HD1	3:A:206:HOH:O	1.93	0.52
1:A:67:SER:HB3	3:A:153:HOH:O	2.09	0.51
1:B:66:PRO:HA	1:B:69:ILE:HD12	1.91	0.51
1:B:46:VAL:HG13	1:B:57:LEU:HG	1.92	0.50
1:A:108:ARG:NH2	3:A:227:HOH:O	2.44	0.50
1:B:81:ARG:HD3	3:B:236:HOH:O	2.12	0.49
3:A:161:HOH:O	1:B:51:GLU:HG2	2.12	0.49
1:B:101:ARG:NH2	1:B:101:ARG:HG2	2.13	0.48
1:A:40:ALA:N	1:A:104:SER:HG	2.12	0.48
1:A:100:ARG:HD2	1:B:60:ASP:OD1	2.15	0.47
1:A:117:ALA:H	1:A:136:ARG:NH1	2.12	0.47
1:B:46:VAL:HA	1:B:58:TYR:O	2.14	0.46
1:A:66:PRO:HA	1:A:69:ILE:HD12	1.96	0.46
1:A:60:ASP:CG	1:B:100:ARG:HD2	2.36	0.46
1:B:85:LYS:HD3	3:B:226:HOH:O	2.15	0.46
1:A:41:GLN:C	3:A:206:HOH:O	2.55	0.45
1:A:49:LYS:HA	1:B:95:PHE:HA	1.98	0.45
1:B:124:GLY:HA2	1:B:128:VAL:O	2.18	0.43
1:B:42:TRP:CZ3	1:B:84:ARG:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:SER:O	1:A:135:LYS:HA	2.19	0.42
1:A:88:SER:HA	1:A:95:PHE:CE1	2.54	0.42
1:A:42:TRP:N	3:A:206:HOH:O	2.53	0.41
1:A:100:ARG:HD2	1:B:60:ASP:CG	2.41	0.41
2:B:2:PO4:P	3:B:300:HOH:O	2.79	0.41
1:B:101:ARG:NH2	2:B:2:PO4:O1	2.53	0.41

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	97/100 (97%)	95 (98%)	2 (2%)	0	100	100
1	B	98/100 (98%)	96 (98%)	2 (2%)	0	100	100
All	All	195/200 (98%)	191 (98%)	4 (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	85/84 (101%)	83 (98%)	2 (2%)	49	21
1	B	85/84 (101%)	82 (96%)	3 (4%)	36	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	170/168 (101%)	165 (97%)	5 (3%)	41 15

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

Mol	Chain	Res	Type
1	A	41	GLN
1	A	53	ASN
1	B	41	GLN
1	B	101	ARG
1	B	106	HIS

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	53	ASN
1	B	53	ASN
1	B	72	GLN
1	B	106	HIS

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](#)

2 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
2	PO4	B	2	-	4,4,4	2.25	3 (75%)	6,6,6	1.44	1 (16%)
2	PO4	A	1	-	4,4,4	1.37	1 (25%)	6,6,6	2.84	3 (50%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2	PO4	P-O4	-2.81	1.46	1.54
2	B	2	PO4	P-O1	-2.70	1.44	1.50
2	A	1	PO4	P-O4	-2.25	1.47	1.54
2	B	2	PO4	P-O2	2.19	1.61	1.54

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1	PO4	O3-P-O2	-5.78	89.41	107.97
2	A	1	PO4	O4-P-O2	2.57	116.22	107.97
2	B	2	PO4	O4-P-O1	2.57	120.29	110.89
2	A	1	PO4	O4-P-O3	2.33	115.44	107.97

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	2	PO4	2	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 [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	97/100 (97%)	0.11	2 (2%) 63 64	12, 19, 37, 48	0
1	B	99/100 (99%)	0.02	2 (2%) 65 65	14, 23, 38, 41	0
All	All	196/200 (98%)	0.07	4 (2%) 65 65	12, 21, 37, 48	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	41	GLN	4.9
1	B	90	THR	2.4
1	B	139	ALA	2.2
1	A	40	ALA	2.1

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 [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
2	PO4	B	2	5/5	0.97	0.08	30,32,36,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	PO4	A	1	5/5	0.98	0.15	30,34,38,43	0

6.5 Other polymers [i](#)

There are no such residues in this entry.