



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 2, 2021 – 09:18 PM EDT

PDB ID : 1ZNV  
Title : How a His-metal finger endonuclease ColE7 binds and cleaves DNA with a transition metal ion cofactor  
Authors : Doudeva, L.G.; Huang, H.; Hsia, K.C.; Shi, Z.; Li, C.L.; Shen, Y.; Yuan, H.S.  
Deposited on : 2005-05-12  
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](mailto: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.

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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 : 2.23.2  
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) : 2.23.2

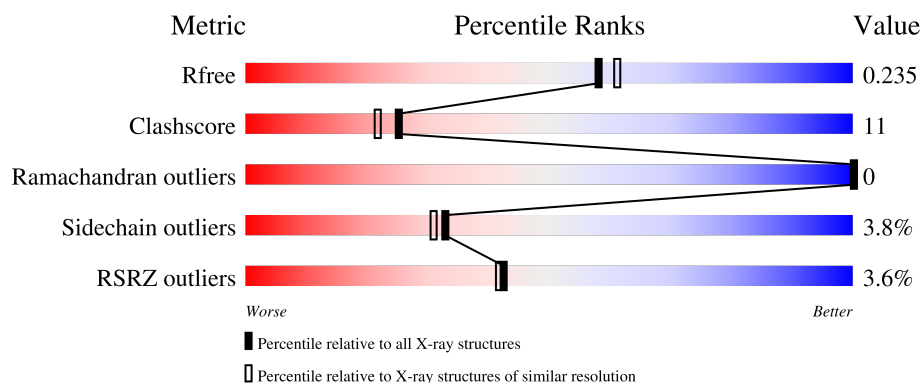
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 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))
$R_{free}$	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (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  $\geq 3$ , 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	93	
1	C	93	
2	B	134	
2	D	134	

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 3763 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 Colicin E7 immunity protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	87	Total	C	N	O	S	0	0	0
			697	440	112	144	1			
1	C	87	Total	C	N	O	S	0	0	0
			697	440	112	144	1			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	88	HIS	-	expression tag	UNP Q03708
A	89	HIS	-	expression tag	UNP Q03708
A	90	HIS	-	expression tag	UNP Q03708
A	91	HIS	-	expression tag	UNP Q03708
A	92	HIS	-	expression tag	UNP Q03708
A	93	HIS	-	expression tag	UNP Q03708
C	88	HIS	-	expression tag	UNP Q03708
C	89	HIS	-	expression tag	UNP Q03708
C	90	HIS	-	expression tag	UNP Q03708
C	91	HIS	-	expression tag	UNP Q03708
C	92	HIS	-	expression tag	UNP Q03708
C	93	HIS	-	expression tag	UNP Q03708

- Molecule 2 is a protein called Colicin E7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	119	Total	C	N	O	S	0	0	0
			967	601	183	181	2			
2	D	119	Total	C	N	O	S	0	0	0
			967	601	183	181	2			

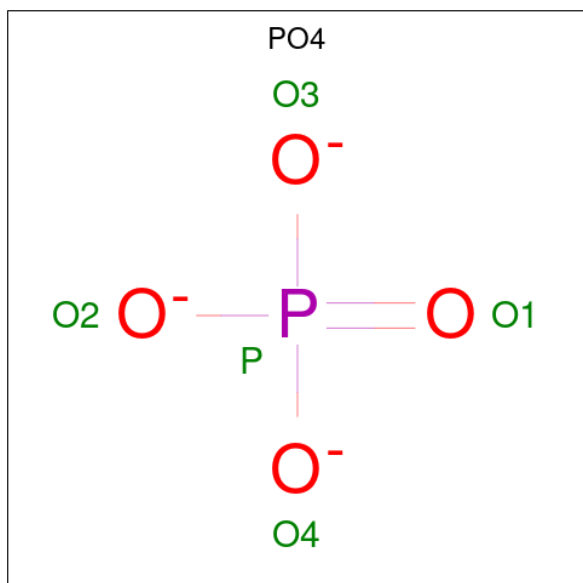
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	443	MET	-	initiating methionine	UNP Q47112
B	545	GLU	HIS	engineered mutation	UNP Q47112
D	443	MET	-	initiating methionine	UNP Q47112
D	545	GLU	HIS	engineered mutation	UNP Q47112

- Molecule 3 is NICKEL (II) ION (three-letter code: NI) (formula: Ni).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total Ni 1 1	0	0
3	D	1	Total Ni 1 1	0	0

- Molecule 4 is PHOSPHATE ION (three-letter code: PO4) (formula: O<sub>4</sub>P).



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	131	Total O 131 131	0	0

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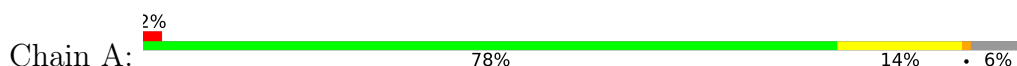
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	100	Total 100	O 100	0	0
5	C	108	Total 108	O 108	0	0
5	D	84	Total 84	O 84	0	0

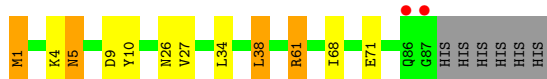
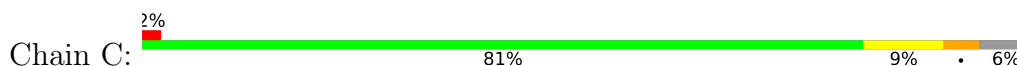
### 3 Residue-property plots [i](#)

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: Colicin E7 immunity protein



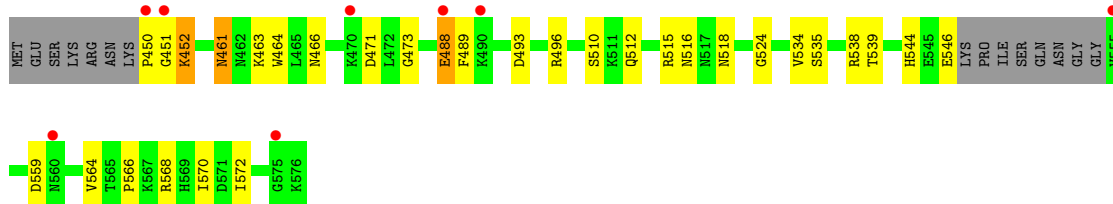
- Molecule 1: Colicin E7 immunity protein



- Molecule 2: Colicin E7



- Molecule 2: Colicin E7



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	119.02Å 62.88Å 74.77Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	27.65 – 2.00 27.65 – 2.00	Depositor EDS
% Data completeness (in resolution range)	96.9 (27.65-2.00) 96.8 (27.65-2.00)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.08	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	5.20 (at 1.99Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, $R_{free}$	0.188 , 0.235 0.189 , 0.235	Depositor DCC
$R_{free}$ test set	3023 reflections (7.84%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	24.5	Xtriage
Anisotropy	0.068	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 64.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	3763	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	32.0	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 52.04 % 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 5.1458e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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, NI

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	0.42	0/710	0.66	2/960 (0.2%)
1	C	0.42	0/710	0.62	0/960
2	B	0.39	0/986	0.55	0/1315
2	D	0.38	0/986	0.54	0/1315
All	All	0.40	0/3392	0.59	2/4550 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	61	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	A	61	ARG	NE-CZ-NH2	-5.15	117.73	120.30

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	697	0	674	8	0
1	C	697	0	674	14	0
2	B	967	0	967	26	0
2	D	967	0	967	30	0
3	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	1	0	0	0	0
4	B	5	0	0	0	0
4	D	5	0	0	1	0
5	A	131	0	0	2	0
5	B	100	0	0	5	0
5	C	108	0	0	2	0
5	D	84	0	0	2	0
All	All	3763	0	3282	71	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 11.

All (71) 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:D:471:ASP:O	2:D:572:ILE:HD11	1.89	0.72
1:C:68:ILE:HD11	5:C:916:HOH:O	1.90	0.71
1:C:26:ASN:HD21	2:D:516:ASN:HD22	1.43	0.67
2:D:464:TRP:H	2:D:512:GLN:HE22	1.46	0.62
2:D:461:ASN:ND2	2:D:463:LYS:H	1.97	0.61
2:B:456:LYS:HA	2:B:485:ARG:HH21	1.66	0.59
2:D:538:ARG:NH1	2:D:570:ILE:HD11	2.18	0.59
2:B:538:ARG:NH1	2:B:570:ILE:HD11	2.17	0.58
2:B:462:ASN:HD22	2:B:462:ASN:N	2.02	0.57
2:B:515:ARG:CZ	2:D:515:ARG:CZ	2.84	0.56
2:B:566:PRO:O	2:B:570:ILE:HG12	2.06	0.56
1:C:26:ASN:ND2	2:D:516:ASN:HD22	2.04	0.55
1:C:61:ARG:HH22	1:C:68:ILE:HD13	1.71	0.54
2:D:452:LYS:N	2:D:452:LYS:HD2	2.23	0.54
2:B:571:ASP:HA	2:B:574:ARG:HG2	1.90	0.53
1:C:5:ASN:ND2	1:C:5:ASN:H	2.05	0.53
2:D:461:ASN:C	2:D:461:ASN:HD22	2.11	0.53
2:B:473:GLY:HA3	2:B:564:VAL:HG12	1.91	0.52
1:A:40:HIS:HD2	5:A:765:HOH:O	1.92	0.52
1:A:20:LYS:HG3	1:C:27:VAL:HG21	1.92	0.51
2:B:515:ARG:CZ	2:D:515:ARG:NE	2.74	0.51
2:D:488:GLU:H	2:D:488:GLU:CD	2.14	0.51
2:B:462:ASN:HD22	2:B:462:ASN:H	1.59	0.50
2:B:534:VAL:HG12	2:B:535:SER:N	2.26	0.50
2:D:534:VAL:CG1	2:D:535:SER:N	2.74	0.49
2:D:534:VAL:HG12	2:D:535:SER:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:450:PRO:HA	2:D:489:PHE:O	2.13	0.49
2:B:496:ARG:NH2	5:B:749:HOH:O	2.44	0.49
2:B:511:LYS:HD2	5:B:928:HOH:O	2.12	0.49
2:B:534:VAL:CG1	2:B:539:THR:HG22	2.43	0.49
2:D:452:LYS:HE2	2:D:488:GLU:HB3	1.93	0.49
2:D:515:ARG:NH1	5:D:855:HOH:O	2.46	0.49
1:A:4:LYS:HB2	1:A:10:TYR:CE2	2.48	0.49
2:B:450:PRO:N	2:B:556:TYR:HH	2.10	0.49
2:B:546:GLU:HG2	5:B:1017:HOH:O	2.13	0.49
2:B:456:LYS:HB3	2:B:456:LYS:NZ	2.28	0.48
1:A:41:PHE:O	1:A:45:THR:HG23	2.14	0.48
1:A:61:ARG:HD3	1:A:71:GLU:OE1	2.14	0.48
1:A:73:LYS:HG2	5:A:799:HOH:O	2.14	0.48
2:B:534:VAL:CG1	2:B:535:SER:N	2.77	0.47
1:C:4:LYS:HB2	1:C:10:TYR:CE2	2.50	0.47
1:C:61:ARG:HD3	1:C:71:GLU:OE1	2.14	0.47
2:D:534:VAL:CG1	2:D:539:THR:HG22	2.44	0.47
1:C:5:ASN:ND2	1:C:5:ASN:N	2.62	0.47
1:C:34:LEU:HG	1:C:38:LEU:HD22	1.97	0.47
2:B:496:ARG:HH11	2:B:496:ARG:HG2	1.81	0.46
1:C:61:ARG:NH2	1:C:68:ILE:HD13	2.30	0.46
2:D:452:LYS:HE2	2:D:488:GLU:CB	2.45	0.46
2:D:546:GLU:HA	2:D:546:GLU:OE1	2.17	0.45
1:C:5:ASN:ND2	1:C:9:ASP:OD2	2.50	0.45
2:D:473:GLY:HA3	2:D:564:VAL:HG12	1.98	0.44
2:D:568:ARG:O	2:D:572:ILE:HG12	2.16	0.44
2:D:461:ASN:ND2	2:D:461:ASN:C	2.71	0.44
2:B:510:SER:HB2	2:B:518:ASN:HD21	1.83	0.44
2:D:450:PRO:HD3	5:D:966:HOH:O	2.17	0.44
2:D:496:ARG:NH1	2:D:524:GLY:O	2.51	0.43
2:D:566:PRO:O	2:D:570:ILE:HG12	2.18	0.43
2:B:546:GLU:O	2:B:560:ASN:ND2	2.51	0.43
2:B:515:ARG:NE	2:D:515:ARG:CZ	2.82	0.43
2:D:451:GLY:C	2:D:452:LYS:HD2	2.40	0.42
2:B:462:ASN:H	2:B:462:ASN:ND2	2.17	0.42
2:D:544:HIS:HA	4:D:581:PO4:O2	2.19	0.42
1:C:61:ARG:HH22	1:C:68:ILE:CD1	2.33	0.41
2:B:534:VAL:HG13	2:B:539:THR:HG22	2.03	0.41
2:B:496:ARG:HD3	5:B:1014:HOH:O	2.20	0.41
2:D:534:VAL:HG22	2:D:539:THR:HA	2.03	0.41
1:A:63:ASP:O	2:B:515:ARG:CZ	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:ASP:O	1:A:39:GLU:HG3	2.21	0.41
2:B:511:LYS:HG3	5:B:846:HOH:O	2.20	0.41
1:C:1:MET:HG3	5:C:726:HOH:O	2.21	0.40
2:D:510:SER:HB2	2:D:518:ASN:HD21	1.87	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	85/93 (91%)	83 (98%)	2 (2%)	0	100	100
1	C	85/93 (91%)	85 (100%)	0	0	100	100
2	B	115/134 (86%)	112 (97%)	3 (3%)	0	100	100
2	D	115/134 (86%)	112 (97%)	3 (3%)	0	100	100
All	All	400/454 (88%)	392 (98%)	8 (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	77/83 (93%)	75 (97%)	2 (3%)	46	48
1	C	77/83 (93%)	73 (95%)	4 (5%)	23	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	107/120 (89%)	105 (98%)	2 (2%)	57	61
2	D	107/120 (89%)	101 (94%)	6 (6%)	21	17
All	All	368/406 (91%)	354 (96%)	14 (4%)	33	31

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	26	ASN
2	B	462	ASN
2	B	560	ASN
1	C	1	MET
1	C	5	ASN
1	C	38	LEU
1	C	61	ARG
2	D	452	LYS
2	D	461	ASN
2	D	466	ASN
2	D	488	GLU
2	D	493	ASP
2	D	559	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	26	ASN
2	B	462	ASN
2	B	516	ASN
2	B	518	ASN
2	B	532	GLN
2	B	560	ASN
1	C	5	ASN
1	C	26	ASN
2	D	461	ASN
2	D	512	GLN
2	D	518	ASN

### 5.3.3 RNA ⓘ

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 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	PO4	B	581	3	4,4,4	1.69	0	6,6,6	0.43	0
4	PO4	D	581	3	4,4,4	1.61	0	6,6,6	0.46	0

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.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	D	581	PO4	1	0

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues ⓘ

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	87/93 (93%)	-0.27	2 (2%) 60 59	14, 24, 41, 82	0
1	C	87/93 (93%)	-0.24	2 (2%) 60 59	14, 25, 45, 83	0
2	B	119/134 (88%)	0.04	3 (2%) 57 56	16, 31, 62, 68	0
2	D	119/134 (88%)	0.22	8 (6%) 17 17	16, 33, 64, 78	0
All	All	412/454 (90%)	-0.03	15 (3%) 42 42	14, 28, 58, 83	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	87	GLY	4.2
1	A	87	GLY	3.4
2	D	488	GLU	3.1
2	D	450	PRO	3.0
2	B	450	PRO	2.8
2	D	555	VAL	2.5
2	D	490	LYS	2.5
2	D	560	ASN	2.4
2	D	575	GLY	2.4
1	C	86	GLN	2.3
2	B	486	ASP	2.2
1	A	86	GLN	2.2
2	B	488	GLU	2.1
2	D	451	GLY	2.1
2	D	470	LYS	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, 95<sup>th</sup> 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
4	PO4	D	581	5/5	0.90	0.14	61,64,69,75	0
4	PO4	B	581	5/5	0.96	0.10	40,51,56,62	0
3	NI	D	580	1/1	0.96	0.04	38,38,38,38	0
3	NI	B	580	1/1	0.99	0.03	33,33,33,33	0

### 6.5 Other polymers [i](#)

There are no such residues in this entry.