



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 10, 2024 – 03:29 pm GMT

PDB ID : 2Y3G  
Title : Se-Met form of Cupriavidus metallidurans CH34 CnrXs  
Authors : Trepreau, J.; Girard, E.; Maillard, A.P.; de Rosny, E.; Petit-Haertlein, I.; Kahn, R.; Coves, J.  
Deposited on : 2010-12-20  
Resolution : 1.91 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.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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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	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

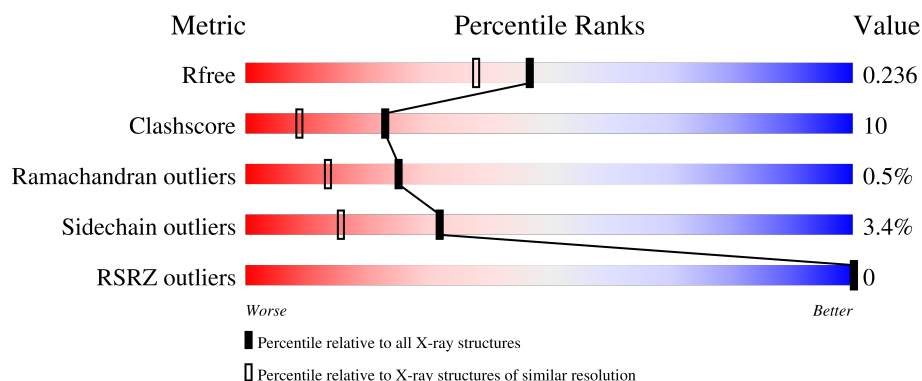
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*





The reported resolution of this entry is 1.91 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))
$R_{free}$	164625	1028 (1.92-1.92)
Clashscore	180529	1100 (1.92-1.92)
Ramachandran outliers	177936	1087 (1.92-1.92)
Sidechain outliers	177891	1087 (1.92-1.92)
RSRZ outliers	164620	1028 (1.92-1.92)

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	118	
1	B	118	
1	C	118	
1	D	118	

## 2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3910 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 NICKEL AND COBALT RESISTANCE PROTEIN CNRR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	109	Total	C	N	O	Se	0	4	0
			909	559	180	168	2			
1	B	110	Total	C	N	O	Se	0	6	0
			939	576	184	176	3			
1	C	109	Total	C	N	O	Se	0	3	0
			898	553	176	167	2			
1	D	109	Total	C	N	O	Se	0	1	0
			876	541	169	164	2			

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



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

- Molecule 5 is water.

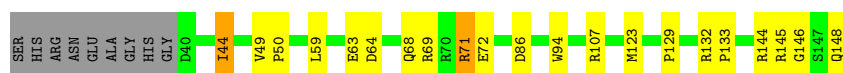
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	70	Total	O	0	0
			70	70		
5	B	78	Total	O	0	0
			78	78		
5	C	65	Total	O	0	0
			65	65		
5	D	51	Total	O	0	0
			51	51		

### 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: NICKEL AND COBALT RESISTANCE PROTEIN CNRR

Chain A: 



#### • Molecule 1: NICKEL AND COBALT RESISTANCE PROTEIN CNRR

Chain B: 



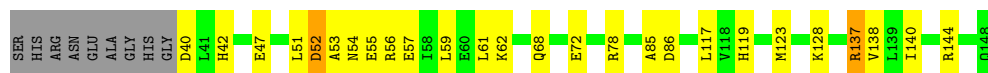
#### • Molecule 1: NICKEL AND COBALT RESISTANCE PROTEIN CNRR

Chain C: 



#### • Molecule 1: NICKEL AND COBALT RESISTANCE PROTEIN CNRR

Chain D: 



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	31.90Å 81.81Å 93.34Å 90.00° 90.47° 90.00°	Depositor
Resolution (Å)	46.67 – 1.91 46.67 – 1.91	Depositor EDS
% Data completeness (in resolution range)	98.9 (46.67-1.91) 99.0 (46.67-1.91)	Depositor EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.93 (at 1.91Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, $R_{free}$	0.187 , 0.238 0.184 , 0.236	Depositor DCC
$R_{free}$ test set	1848 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	26.8	Xtriage
Anisotropy	0.931	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.36 , 40.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.119 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	3910	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.57% of the height of the origin peak. No significant pseudotranslation is detected.*

<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: CL, GOL, ZN

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	0.34	0/922	0.48	0/1241
1	B	0.35	0/952	0.46	0/1280
1	C	0.36	0/911	0.47	0/1227
1	D	0.37	0/888	0.48	0/1197
All	All	0.35	0/3673	0.47	0/4945

There are no bond length outliers.

There are no bond angle outliers.

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	909	0	903	18	0
1	B	939	0	926	17	0
1	C	898	0	891	20	0
1	D	876	0	873	24	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
3	A	1	0	0	1	0
3	B	2	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	6	0	8	0	0
4	B	12	0	16	3	0
5	A	70	0	0	0	0
5	B	78	0	0	4	0
5	C	65	0	0	3	0
5	D	51	0	0	0	0
All	All	3910	0	3617	74	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 10.

All (74) 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:60:GLU:OE1	4:B:1152:GOL:O3	1.75	1.02
1:D:42:HIS:HD2	1:D:119:HIS:CD2	2.03	0.76
4:B:1152:GOL:O3	5:B:2078:HOH:O	2.04	0.76
1:D:59:LEU:O	1:D:123[B]:MSE:HE1	1.88	0.74
1:D:62:LYS:HB2	1:D:123[B]:MSE:SE	2.38	0.73
1:C:122:GLU:HG2	1:C:123[B]:MSE:HE3	1.70	0.72
1:D:42:HIS:CD2	1:D:119:HIS:CD2	2.78	0.71
1:D:56:ARG:HG2	1:D:56:ARG:HH11	1.57	0.69
1:C:123[B]:MSE:HA	1:C:123[B]:MSE:HE2	1.78	0.66
1:C:137[A]:ARG:NH1	5:C:2055:HOH:O	2.30	0.65
1:D:56:ARG:HG2	1:D:56:ARG:NH1	2.12	0.63
1:C:144:ARG:HG3	1:C:144:ARG:HH11	1.64	0.63
1:D:52:ASP:HB3	1:D:55:GLU:HB2	1.81	0.62
1:B:129:PRO:HA	1:B:132:ARG:HD2	1.81	0.62
1:C:70:ARG:O	1:C:74:GLU:HG3	2.00	0.61
1:D:51:LEU:HB3	1:D:56:ARG:HB2	1.83	0.59
1:A:59:LEU:HG	1:A:123[B]:MSE:SE	2.53	0.59
1:A:148:GLN:O	1:C:56:ARG:HD2	2.03	0.58
1:C:90:LYS:HA	1:C:90:LYS:HE2	1.83	0.58
1:D:55:GLU:OE2	1:D:128:LYS:HG2	2.06	0.56
1:B:44:ILE:O	1:B:48:ALA:HB2	2.05	0.56
1:A:63:GLU:OE1	1:A:123[B]:MSE:HE2	2.07	0.55
1:B:60:GLU:OE1	4:B:1152:GOL:C3	2.55	0.54
1:C:43:GLU:O	1:C:47:GLU:HG2	2.07	0.54
1:D:42:HIS:CD2	1:D:119:HIS:NE2	2.75	0.54
1:A:145:ARG:O	1:A:148:GLN:HG2	2.08	0.53
1:C:40:ASP:O	1:C:44:ILE:HG13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:68:GLN:O	1:D:72:GLU:HG3	2.09	0.52
1:C:51:LEU:HD21	1:C:59:LEU:HD12	1.91	0.52
1:D:57:GLU:O	1:D:61:LEU:HD13	2.10	0.52
1:B:51:LEU:HD21	1:B:59:LEU:HD12	1.90	0.51
1:B:59:LEU:HD22	1:B:123[C]:MSE:SE	2.60	0.51
1:A:59:LEU:O	1:A:123[B]:MSE:HE1	2.11	0.51
1:C:46[A]:HIS:CE1	1:C:63:GLU:OE2	2.64	0.50
1:B:119:HIS:CE1	1:B:123[C]:MSE:SE	3.14	0.50
1:A:144[B]:ARG:NH2	1:D:86:ASP:OD1	2.29	0.49
1:A:129:PRO:HA	1:A:132:ARG:HD2	1.95	0.49
1:C:137[B]:ARG:NH1	5:C:2054:HOH:O	2.46	0.48
1:C:122:GLU:HG2	1:C:123[B]:MSE:CE	2.40	0.48
1:B:63:GLU:OE2	1:B:123[C]:MSE:HE2	2.13	0.48
1:C:123[A]:MSE:HE3	1:C:135:TYR:OH	2.14	0.48
1:A:64:ASP:O	1:A:68:GLN:HG2	2.13	0.48
1:A:86:ASP:OD1	1:D:144:ARG:NH2	2.40	0.48
1:C:144:ARG:HD2	5:C:2060:HOH:O	2.14	0.48
1:C:144:ARG:HG3	1:C:144:ARG:NH1	2.29	0.47
1:B:102:THR:O	1:B:106[A]:GLU:HG2	2.15	0.47
1:C:59:LEU:HD21	1:C:126:GLY:HA3	1.96	0.47
1:B:119:HIS:ND1	5:B:2061:HOH:O	2.35	0.47
1:D:47:GLU:O	1:D:47:GLU:HG3	2.15	0.47
1:C:41:LEU:HD13	1:C:120:VAL:HG21	1.97	0.46
1:D:42:HIS:CD2	1:D:119:HIS:HE2	2.33	0.46
1:D:42:HIS:HD2	1:D:119:HIS:HD2	1.56	0.46
1:A:69:ARG:NH2	3:A:1149:CL:CL	2.74	0.45
1:A:71:ARG:HG3	1:A:72:GLU:N	2.31	0.45
1:D:51:LEU:O	1:D:52:ASP:C	2.54	0.45
1:B:145:ARG:NH2	3:B:1149:CL:CL	2.80	0.45
1:B:54:ASN:O	1:B:57[B]:GLU:HG2	2.17	0.45
1:A:144[A]:ARG:HG2	1:D:85:ALA:CB	2.48	0.44
1:A:146:GLY:O	1:D:78:ARG:HG2	2.18	0.43
1:D:140:ILE:O	1:D:144:ARG:HG2	2.19	0.43
1:D:51:LEU:HA	1:D:51:LEU:HD23	1.72	0.43
1:B:64:ASP:O	1:B:68:GLN:HG2	2.18	0.43
1:B:137:ARG:NH2	5:B:2070:HOH:O	2.51	0.42
1:C:69:ARG:O	1:C:69:ARG:HD3	2.19	0.42
1:B:74:GLU:O	1:B:78[A]:ARG:HG3	2.20	0.42
1:A:44:ILE:O	1:A:44:ILE:HG12	2.19	0.42
1:A:132:ARG:N	1:A:133:PRO:CD	2.83	0.41
1:B:65:ALA:HB3	5:B:2015:HOH:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:HIS:CD2	1:B:46[B]:HIS:HD2	2.38	0.41
1:A:49:VAL:HA	1:A:50:PRO:HD3	1.81	0.41
1:C:120:VAL:HA	1:C:123[A]:MSE:HE3	2.03	0.41
1:D:137:ARG:HG3	1:D:138:VAL:N	2.34	0.41
1:A:107:ARG:CZ	1:A:107:ARG:HB2	2.49	0.41
1:A:94:TRP:CH2	1:D:117:LEU:HD23	2.57	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	111/118 (94%)	111 (100%)	0	0	100	100
1	B	115/118 (98%)	115 (100%)	0	0	100	100
1	C	110/118 (93%)	108 (98%)	2 (2%)	0	100	100
1	D	108/118 (92%)	104 (96%)	2 (2%)	2 (2%)	6	1
All	All	444/472 (94%)	438 (99%)	4 (1%)	2 (0%)	25	13

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	53	ALA
1	D	52	ASP

### 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	91/92 (99%)	89 (98%)	2 (2%)	47	32
1	B	94/92 (102%)	91 (97%)	3 (3%)	34	17
1	C	90/92 (98%)	86 (96%)	4 (4%)	24	10
1	D	88/92 (96%)	85 (97%)	3 (3%)	32	16
All	All	363/368 (99%)	351 (97%)	12 (3%)	32	16

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	44	ILE
1	A	71	ARG
1	B	47	GLU
1	B	51	LEU
1	B	112	LEU
1	C	41	LEU
1	C	49	VAL
1	C	69	ARG
1	C	127	LEU
1	D	40	ASP
1	D	54	ASN
1	D	137	ARG

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	119	HIS
1	D	42	HIS
1	D	54	ASN
1	D	103	GLN

### 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 [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 9 ligands modelled in this entry, 6 are monoatomic - leaving 3 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	B	1151	-	5,5,5	0.39	0	5,5,5	0.37	0
4	GOL	B	1152	-	5,5,5	0.77	0	5,5,5	1.40	1 (20%)
4	GOL	A	1150	-	5,5,5	0.36	0	5,5,5	0.39	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	B	1151	-	-	2/4/4/4	-
4	GOL	B	1152	-	-	0/4/4/4	-
4	GOL	A	1150	-	-	3/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	1152	GOL	O1-C1-C2	2.37	121.58	110.20

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1150	GOL	C1-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
4	B	1151	GOL	O1-C1-C2-C3
4	A	1150	GOL	O2-C2-C3-O3
4	B	1151	GOL	O1-C1-C2-O2
4	A	1150	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	1152	GOL	3	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, 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	108/118 (91%)	-1.41	0 100 100	19, 32, 63, 91	3 (2%)
1	B	109/118 (92%)	-1.44	0 100 100	12, 32, 57, 85	5 (4%)
1	C	108/118 (91%)	-1.37	0 100 100	18, 34, 60, 79	2 (1%)
1	D	108/118 (91%)	-1.24	0 100 100	23, 36, 95, 109	0
All	All	433/472 (91%)	-1.36	0 100 100	12, 33, 78, 109	10 (2%)

There are no RSRZ outliers to report.

### 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(Å <sup>2</sup> )	Q<0.9
3	CL	B	1149	1/1	0.97	0.06	52,52,52,52	1
3	CL	A	1149	1/1	0.98	0.09	63,63,63,63	0
2	ZN	C	150	1/1	0.99	0.02	47,47,47,47	1
3	CL	B	1150	1/1	0.99	0.06	81,81,81,81	0

*Continued on next page...*

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
4	GOL	A	1150	6/6	0.99	0.03	29,42,48,49	0
4	GOL	B	1151	6/6	0.99	0.04	30,47,58,60	0
4	GOL	B	1152	6/6	0.99	0.03	31,45,48,51	6
2	ZN	B	150	1/1	1.00	0.01	36,36,36,36	1
2	ZN	A	150	1/1	1.00	0.03	40,40,40,40	1

## 6.5 Other polymers [i](#)

There are no such residues in this entry.