



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 4, 2024 – 05:29 AM EST

PDB ID : 1QC1
Title : CRYSTAL STRUCTURE OF THE SELF-FITTED B-DNA DECAMER
D(CCGCCGGCGG)
Authors : Timsit, Y.; Moras, D.
Deposited on : 1999-05-14
Resolution : 2.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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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
Xtriage (Phenix) : 1.13
EDS : 2.36
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

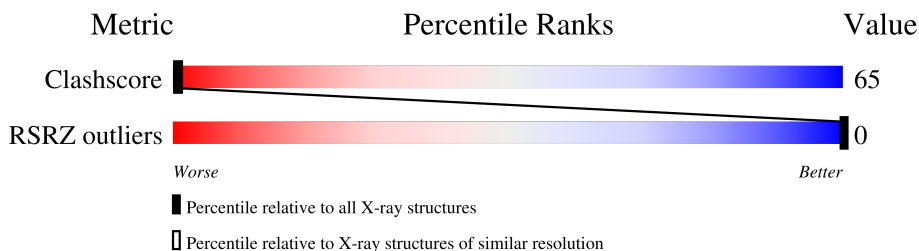
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	5346 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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	10	
1	B	10	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 493 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 DNA chain called 5'-D(*CP*CP*GP*CP*CP*GP*GP*CP*GP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	A	10	202	95	40	58	9	0	0	0
1	B	10	202	95	40	58	9	0	0	0

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	41	41	41	0	0
3	B	44	44	44	0	0

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: 5'-D(*CP*CP*GP*CP*CP*GP*GP*CP*GP*G)-3'

Chain A:  100%

C1	C2	G3	C4	C5	G6	G7	C8	G9	G10
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- Molecule 1: 5'-D(*CP*CP*GP*CP*CP*GP*GP*CP*GP*G)-3'

Chain B:  40%  60%

C11	C12	G13	C14	C15	G16	G17	C18	G19	C20
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4 Data and refinement statistics i

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	53.70Å 53.70Å 45.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	7.00 – 2.50 26.85 – 1.49	Depositor EDS
% Data completeness (in resolution range)	(Not available) (7.00-2.50) 22.0 (26.85-1.49)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.18 (at 1.49Å)	Xtrriage
Refinement program	NUCLSQ	Depositor
R, R_{free}	0.147 , (Not available) 0.152 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	22.8	Xtrriage
Anisotropy	0.660	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 237.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtrriage
Estimated twinning fraction	0.064 for h,-h-k,-l	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	493	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 16.99% 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: 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	2.77	16/226 (7.1%)	3.57	50/347 (14.4%)
1	B	2.88	21/226 (9.3%)	3.71	60/347 (17.3%)
All	All	2.82	37/452 (8.2%)	3.64	110/694 (15.9%)

All (37) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4	DC	P-O5'	10.16	1.70	1.59
1	B	12	DC	C2-N3	8.95	1.43	1.35
1	A	6	DG	O3'-P	8.52	1.71	1.61
1	B	14	DC	N1-C6	-8.52	1.32	1.37
1	B	12	DC	P-O5'	8.35	1.68	1.59
1	B	15	DC	C2-N3	7.77	1.42	1.35
1	A	10	DG	C6-N1	-7.28	1.34	1.39
1	B	20	DG	N7-C5	6.88	1.43	1.39
1	B	18	DC	O3'-P	6.69	1.69	1.61
1	B	12	DC	C5'-C4'	6.67	1.58	1.51
1	B	14	DC	N3-C4	6.45	1.38	1.33
1	A	2	DC	N3-C4	6.43	1.38	1.33
1	A	8	DC	P-O5'	6.26	1.66	1.59
1	B	11	DC	C4-C5	-6.15	1.38	1.43
1	A	6	DG	P-O5'	6.13	1.65	1.59
1	A	7	DG	N7-C5	6.04	1.42	1.39
1	B	12	DC	O3'-P	-6.03	1.53	1.61
1	B	15	DC	P-O5'	6.03	1.65	1.59
1	B	13	DG	P-O5'	5.93	1.65	1.59
1	A	9	DG	C6-N1	-5.83	1.35	1.39
1	B	12	DC	N1-C6	-5.78	1.33	1.37
1	B	17	DG	N3-C4	-5.75	1.31	1.35
1	A	3	DG	P-OP1	-5.71	1.39	1.49
1	B	11	DC	C4'-C3'	-5.70	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	13	DG	N9-C4	5.65	1.42	1.38
1	A	7	DG	N1-C2	-5.61	1.33	1.37
1	A	3	DG	P-O5'	5.56	1.65	1.59
1	B	12	DC	C2'-C1'	-5.53	1.46	1.52
1	B	16	DG	C5-C4	-5.52	1.34	1.38
1	A	6	DG	C6-N1	-5.47	1.35	1.39
1	A	6	DG	N7-C5	5.37	1.42	1.39
1	A	4	DC	C5-C6	5.36	1.38	1.34
1	B	20	DG	N3-C4	-5.34	1.31	1.35
1	A	8	DC	O3'-P	5.24	1.67	1.61
1	B	14	DC	P-O5'	5.21	1.65	1.59
1	A	10	DG	P-O5'	5.18	1.65	1.59
1	B	13	DG	C5-C4	-5.01	1.34	1.38

All (110) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2	DC	N3-C4-C5	-14.89	115.94	121.90
1	B	12	DC	P-O3'-C3'	14.87	137.54	119.70
1	A	5	DC	P-O3'-C3'	13.30	135.66	119.70
1	B	17	DG	N1-C6-O6	-12.12	112.63	119.90
1	A	1	DC	O4'-C1'-N1	11.40	115.98	108.00
1	B	19	DG	P-O3'-C3'	10.73	132.58	119.70
1	B	13	DG	C8-N9-C4	-10.58	102.17	106.40
1	A	3	DG	P-O3'-C3'	10.20	131.94	119.70
1	B	17	DG	C5-C6-O6	9.94	134.56	128.60
1	B	16	DG	O4'-C1'-C2'	-9.69	98.15	105.90
1	A	10	DG	O4'-C4'-C3'	-9.60	100.24	106.00
1	B	15	DC	N1-C2-O2	9.58	124.65	118.90
1	A	8	DC	O4'-C1'-N1	9.56	114.69	108.00
1	B	13	DG	O4'-C4'-C3'	-9.42	100.35	106.00
1	A	2	DC	N1-C2-O2	9.32	124.49	118.90
1	B	11	DC	O4'-C1'-N1	9.32	114.53	108.00
1	A	6	DG	O4'-C1'-N9	8.77	114.14	108.00
1	A	2	DC	P-O3'-C3'	8.67	130.11	119.70
1	B	12	DC	N1-C2-O2	8.62	124.07	118.90
1	B	17	DG	C2-N3-C4	8.51	116.16	111.90
1	B	20	DG	OP1-P-OP2	-8.39	107.02	119.60
1	A	10	DG	C4'-C3'-C2'	-8.33	95.61	103.10
1	B	13	DG	C6-N1-C2	-8.09	120.25	125.10
1	A	5	DC	O4'-C1'-N1	8.08	113.66	108.00
1	B	15	DC	C5-C6-N1	7.93	124.97	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	13	DG	O4'-C1'-C2'	-7.90	99.58	105.90
1	B	16	DG	C8-N9-C4	-7.82	103.27	106.40
1	B	14	DC	C4'-C3'-C2'	7.75	110.08	103.10
1	A	2	DC	O4'-C4'-C3'	-7.75	101.35	106.00
1	A	9	DG	P-O3'-C3'	7.74	128.98	119.70
1	A	1	DC	O4'-C4'-C3'	-7.63	101.42	106.00
1	B	14	DC	N3-C4-C5	-7.59	118.86	121.90
1	A	10	DG	C8-N9-C4	7.50	109.40	106.40
1	A	8	DC	C4'-C3'-C2'	-7.46	96.39	103.10
1	B	17	DG	N3-C4-C5	-7.36	124.92	128.60
1	B	12	DC	O4'-C1'-N1	7.16	113.01	108.00
1	B	16	DG	C6-N1-C2	-7.11	120.83	125.10
1	B	13	DG	C5-C6-N1	7.10	115.05	111.50
1	B	15	DC	O4'-C1'-C2'	-7.05	100.26	105.90
1	A	9	DG	C5-C6-N1	7.03	115.02	111.50
1	A	10	DG	C5-C6-N1	7.01	115.00	111.50
1	B	15	DC	P-O5'-C5'	-7.01	109.69	120.90
1	A	2	DC	C2-N3-C4	6.96	123.38	119.90
1	B	19	DG	C4-C5-N7	6.95	113.58	110.80
1	A	6	DG	P-O5'-C5'	-6.89	109.87	120.90
1	A	1	DC	N3-C4-N4	6.84	122.79	118.00
1	A	3	DG	C2-N3-C4	-6.83	108.48	111.90
1	B	13	DG	N9-C4-C5	6.80	108.12	105.40
1	B	17	DG	P-O5'-C5'	-6.75	110.09	120.90
1	B	18	DC	N3-C4-N4	6.71	122.70	118.00
1	A	9	DG	O4'-C4'-C3'	-6.67	101.83	104.50
1	B	18	DC	N3-C4-C5	-6.66	119.24	121.90
1	A	5	DC	O4'-C4'-C3'	-6.63	101.85	104.50
1	A	10	DG	C5-C6-O6	-6.63	124.62	128.60
1	B	13	DG	C5-C6-O6	-6.61	124.64	128.60
1	A	3	DG	N1-C2-N3	6.61	127.86	123.90
1	B	16	DG	N1-C2-N3	6.59	127.85	123.90
1	B	15	DC	P-O3'-C3'	6.54	127.55	119.70
1	A	7	DG	N9-C4-C5	6.52	108.01	105.40
1	A	5	DC	N3-C4-C5	-6.52	119.29	121.90
1	B	16	DG	N9-C4-C5	6.50	108.00	105.40
1	B	19	DG	O5'-P-OP2	6.45	118.44	110.70
1	B	14	DC	O5'-P-OP1	6.42	118.40	110.70
1	A	8	DC	C3'-C2'-C1'	-6.33	94.91	102.50
1	B	17	DG	C4-C5-N7	-6.32	108.27	110.80
1	A	3	DG	C5-C6-N1	6.27	114.63	111.50
1	A	6	DG	N3-C4-C5	-6.22	125.49	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	19	DG	C8-N9-C4	-6.20	103.92	106.40
1	B	18	DC	O5'-P-OP2	6.14	118.07	110.70
1	B	17	DG	C6-N1-C2	-6.12	121.43	125.10
1	B	15	DC	C4-C5-C6	-6.10	114.35	117.40
1	B	14	DC	C2-N3-C4	6.08	122.94	119.90
1	A	10	DG	OP1-P-OP2	-5.99	110.62	119.60
1	A	10	DG	C3'-C2'-C1'	-5.97	95.33	102.50
1	A	2	DC	N3-C2-O2	-5.96	117.72	121.90
1	B	20	DG	C5-C6-N1	5.92	114.46	111.50
1	A	7	DG	C2-N3-C4	-5.83	108.98	111.90
1	B	20	DG	O4'-C1'-N9	5.80	112.06	108.00
1	B	11	DC	N1-C2-O2	5.79	122.37	118.90
1	B	19	DG	P-O5'-C5'	-5.72	111.75	120.90
1	A	3	DG	P-O5'-C5'	-5.70	111.79	120.90
1	B	12	DC	P-O5'-C5'	-5.68	111.81	120.90
1	A	2	DC	C5-C4-N4	5.67	124.17	120.20
1	A	6	DG	N1-C6-O6	-5.67	116.50	119.90
1	B	13	DG	N9-C1'-C2'	5.63	123.30	112.60
1	B	19	DG	N1-C2-N2	-5.55	111.21	116.20
1	B	20	DG	C6-N1-C2	-5.54	121.77	125.10
1	A	3	DG	C8-N9-C4	-5.46	104.22	106.40
1	A	1	DC	OP2-P-O3'	5.41	117.11	105.20
1	B	17	DG	O4'-C1'-N9	5.39	111.78	108.00
1	B	11	DC	OP2-P-O3'	5.39	117.06	105.20
1	B	18	DC	C5'-C4'-C3'	5.38	123.78	114.10
1	B	18	DC	P-O5'-C5'	-5.34	112.36	120.90
1	A	7	DG	C8-N9-C4	-5.33	104.27	106.40
1	B	14	DC	O4'-C1'-N1	-5.27	104.31	108.00
1	A	10	DG	N3-C4-N9	5.26	129.16	126.00
1	A	3	DG	C6-N1-C2	-5.24	121.96	125.10
1	B	19	DG	O4'-C1'-N9	5.22	111.66	108.00
1	A	9	DG	N9-C4-C5	5.21	107.49	105.40
1	B	13	DG	N1-C2-N3	5.17	127.00	123.90
1	A	7	DG	P-O3'-C3'	-5.15	113.52	119.70
1	A	9	DG	P-O5'-C5'	-5.15	112.65	120.90
1	B	15	DC	N3-C2-O2	-5.14	118.30	121.90
1	A	7	DG	C4-C5-N7	-5.11	108.76	110.80
1	A	10	DG	N7-C8-N9	-5.10	110.55	113.10
1	B	18	DC	C2-N3-C4	5.10	122.45	119.90
1	A	7	DG	N3-C4-N9	-5.04	122.98	126.00
1	B	14	DC	C6-N1-C2	5.04	122.31	120.30
1	B	13	DG	N7-C8-N9	5.03	115.62	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	5	DC	O4'-C1'-C2'	-5.02	101.89	105.90

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	202	0	112	20	0
1	B	202	0	112	15	0
2	A	1	0	0	0	0
2	B	3	0	0	0	0
3	A	41	0	0	3	0
3	B	44	0	0	7	0
All	All	493	0	224	32	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 65.

All (32) 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:13:DG:H3'	3:B:146:HOH:O	1.47	1.15
1:A:1:DC:HO5'	1:A:1:DC:H6	0.97	0.91
1:A:9:DG:H1'	1:A:10:DG:H5''	1.59	0.84
1:B:12:DC:OP2	3:B:130:HOH:O	2.00	0.79
1:A:2:DC:O5'	1:A:2:DC:H2'	1.86	0.75
1:A:8:DC:H5''	3:A:129:HOH:O	1.87	0.73
1:A:9:DG:H1'	1:A:10:DG:C5'	2.20	0.71
1:A:8:DC:O5'	1:A:8:DC:H2'	1.93	0.68
1:A:8:DC:OP1	3:A:139:HOH:O	2.11	0.68
1:B:16:DG:C8	3:B:144:HOH:O	2.48	0.66
1:A:7:DG:H2''	1:A:8:DC:O5'	1.96	0.65
1:B:14:DC:H2''	1:B:15:DC:C5'	2.31	0.60
1:A:5:DC:N4	1:B:15:DC:N4	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:14:DC:H2''	1:B:15:DC:H5'	1.83	0.60
1:B:13:DG:H2'	3:B:146:HOH:O	2.02	0.59
1:A:9:DG:C1'	1:A:10:DG:H5''	2.32	0.56
1:B:17:DG:H4'	3:B:120:HOH:O	2.06	0.55
1:B:13:DG:H2''	1:B:14:DC:C6	2.41	0.55
1:A:9:DG:O5'	1:A:9:DG:H2'	2.07	0.54
1:B:13:DG:C2'	3:B:146:HOH:O	2.51	0.54
1:A:2:DC:O5'	1:A:2:DC:C2'	2.48	0.54
1:B:12:DC:P	3:B:130:HOH:O	2.65	0.53
1:A:8:DC:O5'	1:A:8:DC:C2'	2.59	0.51
1:A:3:DG:C6	1:B:17:DG:O6	2.64	0.51
1:A:8:DC:N4	1:B:12:DC:N4	2.60	0.49
1:A:4:DC:H5''	3:A:120:HOH:O	2.16	0.45
1:A:1:DC:H2''	1:A:2:DC:C6	2.52	0.44
1:B:14:DC:H2''	1:B:15:DC:O4'	2.18	0.44
1:A:9:DG:O5'	1:A:9:DG:C2'	2.67	0.43
1:B:13:DG:H2''	1:B:14:DC:H6	1.83	0.43
1:A:9:DG:C6	1:A:10:DG:C6	3.07	0.42
1:A:5:DC:H2''	1:A:6:DG:C8	2.54	0.42

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

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 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

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.

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	10/10 (100%)	-1.49	0 100 100	11, 16, 22, 24	0
1	B	10/10 (100%)	-1.35	0 100 100	9, 18, 27, 27	0
All	All	20/20 (100%)	-1.42	0 100 100	9, 18, 27, 27	0

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, 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	MG	B	101	1/1	0.88	0.09	20,20,20,20	1
2	MG	B	104	1/1	0.96	0.07	15,15,15,15	0
2	MG	B	103	1/1	0.98	0.10	18,18,18,18	0
2	MG	A	102	1/1	1.00	0.08	5,5,5,5	1

6.5 Other polymers [i](#)

There are no such residues in this entry.