Full wwPDB X-ray Structure Validation Report (i)

Jan 24, 2023 – 10:45 PM EST

PDB ID	:	3R4I
Title	:	Crystal structure of a Citrate lyase (Bxe_B2899) from BURKHOLDERIA XENOVORANS LB400 at 2.24 A resolution
Authors	:	Joint Center for Structural Genomics (JCSG)
Deposited on	:	2011-03-17
Resolution	:	2.24 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 (i) 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 (i)) were used in the production of this report:

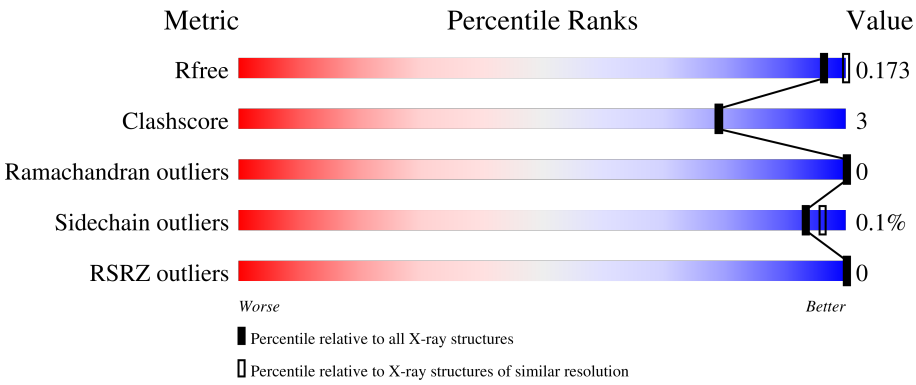
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.31.2
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.24 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	2391 (2.26-2.22)
Clashscore	141614	2539 (2.26-2.22)
Ramachandran outliers	138981	2489 (2.26-2.22)
Sidechain outliers	138945	2490 (2.26-2.22)
RSRZ outliers	127900	2353 (2.26-2.22)

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 <=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	339	90% 5% 5%
1	B	339	86% 9% 6%
1	C	339	89% 5% 6%
1	D	339	88% 5% 6%
1	E	339	89% 6% 6%

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Mol	Chain	Length	Quality of chain
1	F	339	91% • 6%

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 14805 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 Citrate Lyase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	321	2464	1563	438	454	3	6	0	6	0
1	B	319	2437	1546	432	450	3	6	0	6	0
1	C	320	2434	1539	434	452	3	6	0	4	0
1	D	317	2422	1541	427	445	3	6	0	6	0
1	E	320	2372	1500	419	444	3	6	0	0	0
1	F	317	2364	1497	412	446	3	6	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	expression tag	UNP Q13S43
B	0	GLY	-	expression tag	UNP Q13S43
C	0	GLY	-	expression tag	UNP Q13S43
D	0	GLY	-	expression tag	UNP Q13S43
E	0	GLY	-	expression tag	UNP Q13S43
F	0	GLY	-	expression tag	UNP Q13S43

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

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

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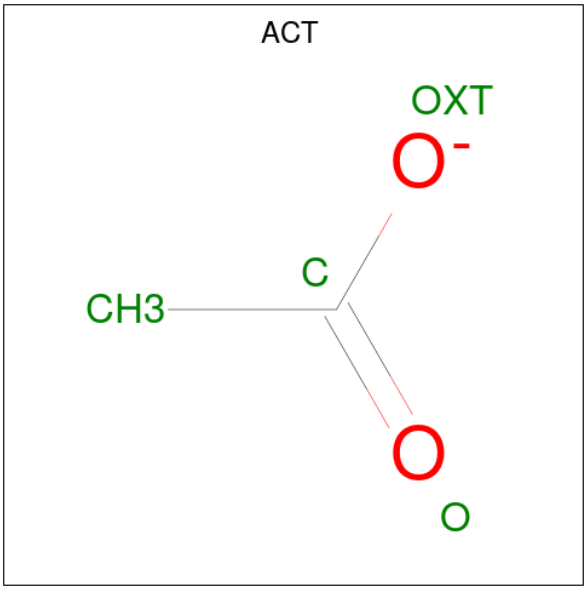
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	D	3	Total Ca 3 3	0	0
2	E	2	Total Ca 2 2	0	0
2	F	2	Total Ca 2 2	0	0

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total Cl 1 1	0	0
3	C	1	Total Cl 1 1	0	0
3	D	1	Total Cl 1 1	0	0
3	E	1	Total Cl 1 1	0	0
3	F	1	Total Cl 1 1	0	0

- Molecule 4 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	C	1	Total C O 4 2 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
4	D	1	4	2	2	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
5	A	72	72	72	0	0
			Total	O		
5	B	65	65	65	0	0
			Total	O		
5	C	57	57	57	0	0
			Total	O		
5	D	64	64	64	0	0
			Total	O		
5	E	21	21	21	0	0
			Total	O		
5	F	7	7	7	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: Citrate Lyase

Chain A:

- Molecule 1: Citrate Lyase

Chain B:

- Molecule 1: Citrate Lyase

Chain C:

- Molecule 1: Citrate Lyase

Chain D:

- Molecule 1: Citrate Lyase

Chain E:

• Molecule 1: Citrate Lyase

Chain F:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 3	Depositor
Cell constants a, b, c, α, β, γ	148.47Å 148.47Å 79.57Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	48.60 – 2.24 48.60 – 2.24	Depositor EDS
% Data completeness (in resolution range)	99.3 (48.60-2.24) 99.2 (48.60-2.24)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.58 (at 2.24Å)	Xtriage
Refinement program	PHENIX 1.6.4	Depositor
R, R_{free}	0.151 , 0.174 0.152 , 0.173	Depositor DCC
R_{free} test set	4701 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	33.3	Xtriage
Anisotropy	0.330	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 28.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.43$, $< L^2 > = 0.25$	Xtriage
Estimated twinning fraction	0.069 for -h,-k,l 0.470 for h,-h-k,-l 0.069 for -k,-h,-l	Xtriage
Reported twinning fraction	0.476 for h,-h-k,-l	Depositor
Outliers	0 of 93681 reflections	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	14805	wwPDB-VP
Average B, all atoms (Å^2)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.54% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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, CA, ACT

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	0.35	0/2539	0.51	0/3454
1	B	0.35	0/2509	0.51	0/3418
1	C	0.35	0/2499	0.49	0/3402
1	D	0.35	0/2494	0.51	0/3394
1	E	0.35	0/2423	0.50	0/3303
1	F	0.36	0/2415	0.49	0/3294
All	All	0.35	0/14879	0.50	0/20265

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	2464	0	2366	11	0
1	B	2437	0	2340	25	1
1	C	2434	0	2324	11	0
1	D	2422	0	2333	17	0
1	E	2372	0	2220	12	0
1	F	2364	0	2225	7	0
2	A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	3	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
4	C	4	0	3	0	0
4	D	4	0	3	0	0
5	A	72	0	0	1	1
5	B	65	0	0	2	0
5	C	57	0	0	0	0
5	D	64	0	0	0	0
5	E	21	0	0	0	0
5	F	7	0	0	0	0
All	All	14805	0	13814	78	1

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 3.

All (78) 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:220:PRO:HD2	1:B:248[B]:THR:HG22	1.52	0.89
1:B:92:HIS:CE1	1:B:94[B]:HIS:CD2	2.61	0.89
1:B:92:HIS:HE1	1:B:94[B]:HIS:CD2	1.92	0.86
1:B:92:HIS:CE1	1:B:94[B]:HIS:HD2	2.04	0.74
1:A:31:LYS:HB2	1:D:31:LYS:HB2	1.76	0.68
1:C:127:MSE:O	1:C:131[B]:ILE:HG12	1.94	0.67
1:E:97:ASP:O	1:E:101:LEU:HG	1.95	0.65
1:B:74:GLY:CA	1:B:108:ARG:HG2	2.27	0.65
1:B:219:VAL:HG13	1:B:248[B]:THR:HG23	1.78	0.64
1:B:219:VAL:HG13	1:B:248[B]:THR:CG2	2.27	0.64
1:C:299:ARG:O	1:C:303:ARG:HG3	1.98	0.63
1:C:74:GLY:CA	1:C:108:ARG:HG2	2.30	0.61
1:E:74:GLY:CA	1:E:108:ARG:HG2	2.31	0.61
1:D:299:ARG:O	1:D:303:ARG:HG3	2.01	0.60
1:A:299:ARG:O	1:A:303:ARG:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:GLY:CA	1:F:108:ARG:HG2	2.32	0.60
1:B:299:ARG:O	1:B:303:ARG:HG3	2.02	0.60
1:E:299:ARG:O	1:E:303:ARG:HG3	2.01	0.59
1:F:299:ARG:O	1:F:303:ARG:HG3	2.02	0.59
1:B:74:GLY:HA3	1:B:108:ARG:HG2	1.85	0.58
1:A:18:ALA:HB2	1:A:217:GLY:O	2.04	0.58
1:A:74:GLY:CA	1:A:108:ARG:HG2	2.35	0.56
1:C:74:GLY:HA3	1:C:108:ARG:HG2	1.87	0.55
1:D:74:GLY:CA	1:D:108:ARG:HG2	2.36	0.55
1:E:74:GLY:HA3	1:E:108:ARG:HG2	1.88	0.55
1:F:74:GLY:HA3	1:F:108:ARG:HG2	1.89	0.54
1:B:193:SER:HB3	5:B:429:HOH:O	2.07	0.53
1:C:18:ALA:HB2	1:C:217:GLY:O	2.09	0.52
1:B:198:ASP:OD2	5:B:362:HOH:O	2.18	0.52
1:B:321:GLN:NE2	1:D:101:LEU:HA	2.25	0.51
1:D:39[A]:LEU:HD21	1:D:43:LEU:HD11	1.92	0.51
1:A:74:GLY:HA3	1:A:108:ARG:HG2	1.92	0.50
1:B:299:ARG:HA	1:B:302:TYR:CD2	2.47	0.50
1:F:29:SER:O	1:F:33:MSE:HG3	2.13	0.49
1:B:119:ARG:HA	1:B:152[B]:THR:HG21	1.94	0.49
1:F:299:ARG:HA	1:F:302:TYR:CD2	2.48	0.49
1:C:299:ARG:HA	1:C:302:TYR:CD2	2.49	0.48
1:A:299:ARG:HA	1:A:302:TYR:CD2	2.49	0.48
1:D:299:ARG:HA	1:D:302:TYR:CD2	2.48	0.48
1:A:81:GLY:HA2	5:A:376:HOH:O	2.14	0.47
1:A:29:SER:O	1:A:33:MSE:HG3	2.15	0.47
1:E:299:ARG:HA	1:E:302:TYR:CD2	2.50	0.46
1:E:135:ARG:HD2	1:E:135:ARG:C	2.36	0.46
1:B:324:ALA:N	1:B:325:PRO:HD2	2.31	0.46
1:D:74:GLY:HA3	1:D:108:ARG:HG2	1.96	0.46
1:E:29:SER:O	1:E:33:MSE:HG3	2.15	0.45
1:C:61:ARG:HA	1:C:64:GLN:HE22	1.81	0.45
1:B:255:PRO:HA	1:B:258:ILE:HD12	2.00	0.44
1:B:149:LEU:HD13	1:B:172:SER:HB2	2.00	0.44
1:B:253:ILE:HD12	1:B:253:ILE:HA	1.87	0.43
1:C:253:ILE:HD12	1:C:253:ILE:HA	1.91	0.43
1:D:253:ILE:HD12	1:D:253:ILE:HA	1.91	0.43
1:D:324:ALA:N	1:D:325:PRO:HD2	2.33	0.43
1:F:253:ILE:HD12	1:F:253:ILE:HA	1.87	0.43
1:B:118:ILE:O	1:B:155:ALA:HB2	2.19	0.43
1:D:135:ARG:HD2	1:D:135:ARG:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:29:SER:O	1:C:33:MSE:HG3	2.19	0.43
1:E:324:ALA:N	1:E:325:PRO:HD2	2.34	0.43
1:D:39[B]:LEU:CD1	1:D:43:LEU:HG	2.50	0.42
1:B:29:SER:O	1:B:33:MSE:HG3	2.19	0.42
1:A:116:PRO:HA	1:A:149:LEU:HB2	2.02	0.42
1:D:63:ALA:O	1:D:67:GLU:HG3	2.20	0.41
1:B:321:GLN:NE2	1:D:104:ARG:HB2	2.35	0.41
1:E:309:LEU:HD23	1:E:309:LEU:HA	1.90	0.41
1:B:321:GLN:HE22	1:D:104:ARG:HB2	1.85	0.41
1:A:253:ILE:HD12	1:A:253:ILE:HA	1.90	0.41
1:B:26:TYR:CZ	1:B:50:THR:HG21	2.55	0.41
1:C:135:ARG:HD2	1:C:135:ARG:C	2.41	0.41
1:D:39[A]:LEU:HD21	1:D:43:LEU:CD1	2.49	0.41
1:B:321:GLN:HE22	1:D:101:LEU:HA	1.83	0.40
1:A:324:ALA:N	1:A:325:PRO:HD2	2.36	0.40
1:C:324:ALA:N	1:C:325:PRO:HD2	2.36	0.40
1:E:70:ALA:HB2	1:E:102:ILE:HA	2.03	0.40
1:E:199:HIS:HA	1:E:200:PRO:HD3	1.97	0.40
1:E:149:LEU:HD13	1:E:172:SER:HB2	2.04	0.40
1:D:103:LEU:HD23	1:D:103:LEU:HA	1.84	0.40
1:F:309:LEU:HD23	1:F:309:LEU:HA	1.91	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:188:ASP:OD2	5:A:391:HOH:O[3_555]	2.17	0.03

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	323/339 (95%)	314 (97%)	9 (3%)	0	100	100
1	B	321/339 (95%)	311 (97%)	10 (3%)	0	100	100
1	C	320/339 (94%)	311 (97%)	9 (3%)	0	100	100
1	D	319/339 (94%)	310 (97%)	9 (3%)	0	100	100
1	E	316/339 (93%)	308 (98%)	8 (2%)	0	100	100
1	F	313/339 (92%)	305 (97%)	8 (3%)	0	100	100
All	All	1912/2034 (94%)	1859 (97%)	53 (3%)	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	246/260 (95%)	246 (100%)	0	100	100
1	B	243/260 (94%)	243 (100%)	0	100	100
1	C	240/260 (92%)	239 (100%)	1 (0%)	91	93
1	D	241/260 (93%)	241 (100%)	0	100	100
1	E	226/260 (87%)	226 (100%)	0	100	100
1	F	230/260 (88%)	230 (100%)	0	100	100
All	All	1426/1560 (91%)	1425 (100%)	1 (0%)	93	96

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	64	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	286	GLN

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Mol	Chain	Res	Type
1	B	92	HIS
1	B	286	GLN
1	B	321	GLN
1	C	286	GLN
1	D	286	GLN
1	E	120	HIS
1	E	286	GLN
1	F	77	HIS
1	F	286	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 20 ligands modelled in this entry, 18 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	ACT	C	357	-	3,3,3	0.71	0	3,3,3	1.00	0
4	ACT	D	358	-	3,3,3	0.64	0	3,3,3	1.31	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.

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	315/339 (92%)	-0.72	0	100	100	21, 35, 56, 74	0
1	B	313/339 (92%)	-0.72	0	100	100	21, 35, 56, 74	0
1	C	314/339 (92%)	-0.71	0	100	100	23, 36, 57, 75	0
1	D	311/339 (91%)	-0.72	0	100	100	23, 35, 55, 75	0
1	E	314/339 (92%)	-0.72	0	100	100	23, 37, 56, 73	0
1	F	311/339 (91%)	-0.71	0	100	100	24, 38, 57, 75	0
All	All	1878/2034 (92%)	-0.72	0	100	100	21, 36, 56, 75	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	CA	E	347	1/1	0.95	0.16	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	CA	F	349	1/1	0.96	0.10	57,57,57,57	0
2	CA	D	345	1/1	0.98	0.09	39,39,39,39	0
2	CA	D	350	1/1	0.98	0.06	57,57,57,57	0
2	CA	F	351	1/1	0.98	0.10	43,43,43,43	0
2	CA	A	346	1/1	0.99	0.11	31,31,31,31	0
2	CA	B	339	1/1	0.99	0.11	22,22,22,22	0
2	CA	B	340	1/1	0.99	0.12	35,35,35,35	0
2	CA	E	348	1/1	0.99	0.11	43,43,43,43	0
2	CA	C	343	1/1	0.99	0.15	43,43,43,43	0
2	CA	C	344	1/1	0.99	0.10	36,36,36,36	0
3	CL	B	354	1/1	0.99	0.06	38,38,38,38	0
3	CL	D	352	1/1	0.99	0.10	25,25,25,25	0
3	CL	F	356	1/1	0.99	0.07	33,33,33,33	0
4	ACT	C	357	4/4	0.99	0.08	15,19,22,23	0
4	ACT	D	358	4/4	0.99	0.08	13,16,18,21	0
3	CL	E	355	1/1	1.00	0.08	30,30,30,30	0
2	CA	A	341	1/1	1.00	0.15	34,34,34,34	0
3	CL	C	353	1/1	1.00	0.09	29,29,29,29	0
2	CA	D	342	1/1	1.00	0.14	29,29,29,29	0

6.5 Other polymers (i)

There are no such residues in this entry.