



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 21, 2017 – 02:45 AM EST

PDB ID : 1AMZ
Title : CHICKEN CITRATE SYNTHASE COMPLEX WITH NITROMETHYLDECOA AND MALATE
Authors : Usher, K.C.; Remington, S.J.
Deposited on : unknown
Resolution : 1.80 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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20030345
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20030345

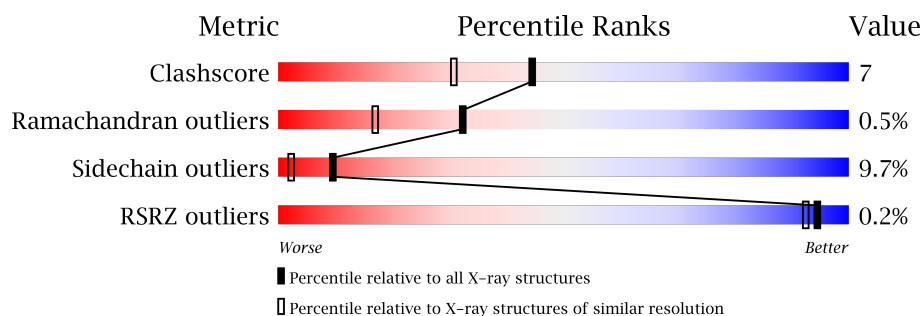
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	112137	5742 (1.80-1.80)
Ramachandran outliers	110173	5676 (1.80-1.80)
Sidechain outliers	110143	5675 (1.80-1.80)
RSRZ outliers	101464	4906 (1.80-1.80)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	435	 76% 21% .

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3601 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.

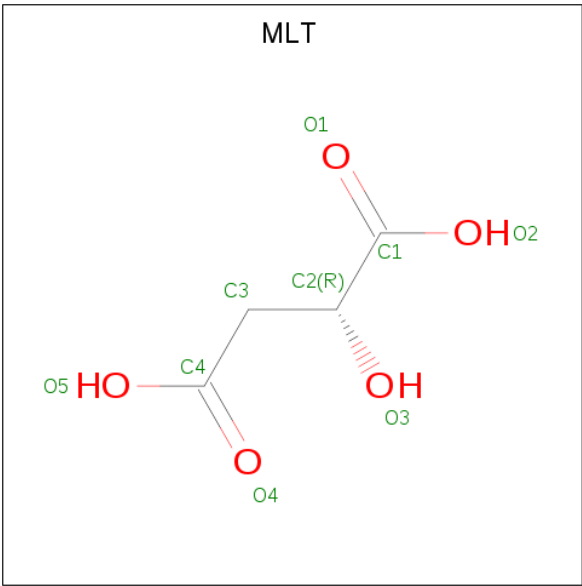
- Molecule 1 is a protein called CITRATE SYNTHASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	435	3391	2167	583	625	16	82	0	0

There are 26 discrepancies between the modelled and reference sequences:

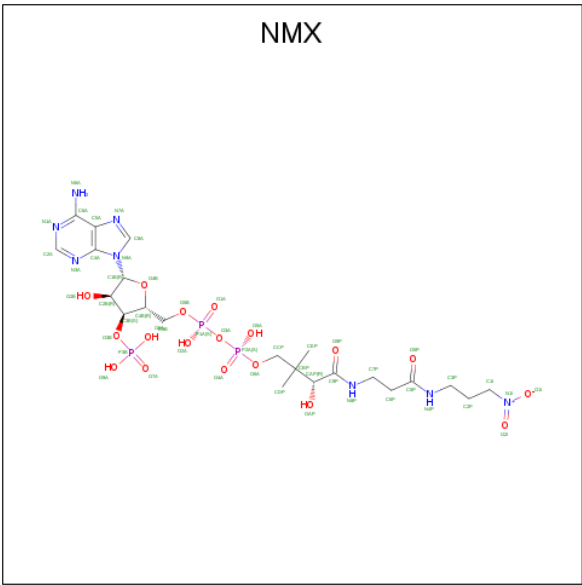
Chain	Residue	Modelled	Actual	Comment	Reference
A	12	SER	ALA	CONFLICT	UNP P23007
A	30	ASN	GLY	CONFLICT	UNP P23007
A	33	VAL	LEU	CONFLICT	UNP P23007
A	52	ILE	VAL	CONFLICT	UNP P23007
A	81	ALA	-	INSERTION	UNP P23007
A	85	GLU	GLY	CONFLICT	UNP P23007
A	104	PRO	GLY	CONFLICT	UNP P23007
A	105	GLU	ALA	CONFLICT	UNP P23007
A	110	VAL	LEU	CONFLICT	UNP P23007
A	163	ASN	LEU	CONFLICT	UNP P23007
A	170	PHE	MET	CONFLICT	UNP P23007
A	174	ASP	SER	CONFLICT	UNP P23007
A	222	PRO	ALA	CONFLICT	UNP P23007
A	283	LEU	GLY	CONFLICT	UNP P23007
A	286	SER	ALA	CONFLICT	UNP P23007
A	291	ASP	ALA	CONFLICT	UNP P23007
A	292	LEU	ALA	CONFLICT	UNP P23007
A	298	ASP	-	INSERTION	UNP P23007
A	299	GLU	-	INSERTION	UNP P23007
A	300	LYS	-	INSERTION	UNP P23007
A	343	SER	GLY	CONFLICT	UNP P23007
A	366	LYS	ALA	CONFLICT	UNP P23007
A	368	LYS	ALA	CONFLICT	UNP P23007
A	428	ALA	ASP	CONFLICT	UNP P23007
A	431	GLU	ILE	CONFLICT	UNP P23007
A	432	LYS	ALA	CONFLICT	UNP P23007

- Molecule 2 is D-MALATE (three-letter code: MLT) (formula: C₄H₆O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			9	4	5		

- Molecule 3 is NITROMETHYLDETHIA COENZYME A (three-letter code: NMX) (formula: C₂₂H₃₇N₈O₁₈P₃).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	1
			60	26	10	21	3		

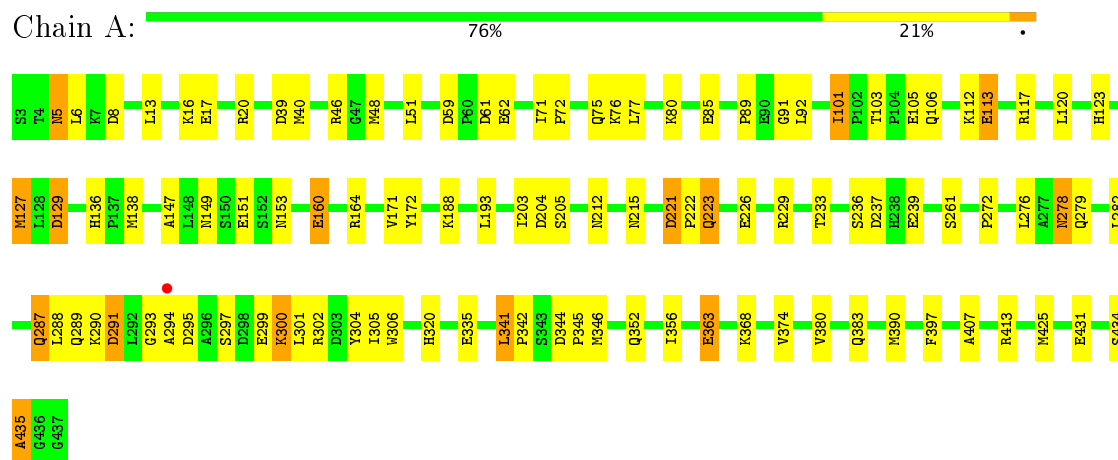
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	141	Total	O	0	0
			141	141		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA 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 ($\text{RSRZ} > 2$). 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 SYNTHASE



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	104.13 Å 78.50 Å 58.42 Å 90.00° 78.93° 90.00°	Depositor
Resolution (Å)	25.00 – 1.80 15.23 – 1.72	Depositor EDS
% Data completeness (in resolution range)	85.0 (25.00-1.80) 80.1 (15.23-1.72)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1194.75 (at 1.72 Å)	Xtriage
Refinement program	TNT	Depositor
R, R_{free}	0.154 , (Not available) 0.147 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	9.5	Xtriage
Anisotropy	0.070	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 84.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3601	wwPDB-VP
Average B, all atoms (Å ²)	16.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.77% 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: NMX, MLT

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	0.97	14/3476 (0.4%)	1.19	20/4721 (0.4%)

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	239	GLU	CD-OE1	9.58	1.36	1.25
1	A	431	GLU	CD-OE1	-8.70	1.16	1.25
1	A	335	GLU	CD-OE1	6.82	1.33	1.25
1	A	151	GLU	CD-OE1	6.36	1.32	1.25
1	A	160	GLU	CD-OE1	6.20	1.32	1.25
1	A	299	GLU	CD-OE2	6.19	1.32	1.25
1	A	431	GLU	CD-OE2	6.08	1.32	1.25
1	A	113	GLU	CD-OE2	6.01	1.32	1.25
1	A	105	GLU	CD-OE1	5.77	1.31	1.25
1	A	226	GLU	CD-OE2	5.61	1.31	1.25
1	A	363	GLU	CD-OE2	5.46	1.31	1.25
1	A	62	GLU	CD-OE1	5.40	1.31	1.25
1	A	17	GLU	CD-OE1	5.33	1.31	1.25
1	A	85	GLU	CD-OE2	5.02	1.31	1.25

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	39	ASP	CB-CG-OD1	8.22	125.70	118.30
1	A	39	ASP	CB-CG-OD2	-7.54	111.52	118.30
1	A	344	ASP	CB-CG-OD2	-7.31	111.72	118.30
1	A	61	ASP	CB-CG-OD1	-6.93	112.06	118.30
1	A	51	LEU	CB-CA-C	-6.91	97.08	110.20
1	A	221	ASP	CB-CG-OD1	-6.81	112.17	118.30
1	A	59	ASP	CB-CG-OD2	-6.77	112.21	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	237	ASP	CB-CG-OD2	-6.75	112.23	118.30
1	A	172	TYR	CB-CG-CD1	6.36	124.82	121.00
1	A	8	ASP	CB-CG-OD1	-6.21	112.71	118.30
1	A	129	ASP	CB-CG-OD2	5.91	123.62	118.30
1	A	221	ASP	CB-CG-OD2	5.91	123.61	118.30
1	A	129	ASP	CB-CG-OD1	-5.87	113.02	118.30
1	A	407	ALA	CB-CA-C	5.83	118.85	110.10
1	A	335	GLU	CB-CA-C	5.54	121.47	110.40
1	A	61	ASP	CB-CG-OD2	5.35	123.11	118.30
1	A	295	ASP	CB-CG-OD1	-5.31	113.52	118.30
1	A	291	ASP	CB-CG-OD1	-5.29	113.54	118.30
1	A	229	ARG	NE-CZ-NH2	5.21	122.90	120.30
1	A	59	ASP	CB-CG-OD1	5.07	122.86	118.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	3391	0	3370	48	0
2	A	9	0	4	2	0
3	A	60	0	18	5	0
4	A	141	0	0	2	1
All	All	3601	0	3392	50	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 7.

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:A:136:HIS:HD2	1:A:138:MET:H	1.22	0.83
1:A:92:LEU:HD21	1:A:236:SER:OG	1.94	0.68
1:A:136:HIS:CD2	1:A:138:MET:H	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:320:HIS:HD2	3:A:700[B]:NMX:O1I	1.80	0.65
1:A:320:HIS:CD2	3:A:700[B]:NMX:O1I	2.52	0.62
1:A:341:LEU:N	1:A:342:PRO:HD3	2.19	0.57
1:A:306:TRP:HZ2	1:A:363:GLU:HG2	1.69	0.56
1:A:153:ASN:N	1:A:153:ASN:HD22	2.01	0.56
1:A:153:ASN:N	1:A:153:ASN:ND2	2.55	0.54
1:A:223:GLN:OE1	1:A:223:GLN:HA	2.01	0.54
1:A:92:LEU:HD22	1:A:233:THR:HG23	1.89	0.53
1:A:5:ASN:C	1:A:5:ASN:HD22	2.12	0.53
1:A:103:THR:H	1:A:106:GLN:HE21	1.58	0.52
1:A:301:LEU:HD12	1:A:356:ILE:HD12	1.91	0.51
1:A:289:GLN:O	1:A:293:GLY:HA2	2.11	0.51
1:A:103:THR:H	1:A:106:GLN:NE2	2.09	0.50
1:A:204:ASP:H	1:A:212:ASN:HD21	1.58	0.50
1:A:77:LEU:HB3	1:A:101:ILE:HD12	1.94	0.49
1:A:40:MET:CE	1:A:48:MET:HG2	2.41	0.49
1:A:127:MET:HE1	1:A:147:ALA:HB3	1.95	0.49
1:A:215:ASN:ND2	4:A:581:HOH:O	2.46	0.48
1:A:301:LEU:O	1:A:305:ILE:HD12	2.15	0.47
1:A:129:ASP:OD1	1:A:188:LYS:HE3	2.14	0.47
1:A:288:LEU:HD23	1:A:288:LEU:C	2.35	0.46
1:A:204:ASP:H	1:A:212:ASN:ND2	2.13	0.46
1:A:341:LEU:N	1:A:342:PRO:CD	2.78	0.45
1:A:123:HIS:HE1	1:A:147:ALA:O	1.99	0.45
2:A:702:MLT:H2	3:A:700[A]:NMX:N1I	2.31	0.45
1:A:127:MET:HE3	1:A:127:MET:HB3	1.83	0.44
1:A:40:MET:HE1	1:A:48:MET:HA	1.99	0.44
1:A:278:ASN:HD22	1:A:279:GLN:N	2.16	0.44
1:A:171:VAL:HG21	1:A:413:ARG:HG3	1.99	0.43
1:A:136:HIS:HE1	1:A:279:GLN:OE1	2.02	0.43
1:A:300:LYS:HD2	1:A:300:LYS:HA	1.89	0.42
1:A:40:MET:CE	1:A:48:MET:CG	2.97	0.42
1:A:301:LEU:HD11	1:A:352:GLN:CD	2.39	0.42
1:A:113:GLU:O	1:A:117:ARG:HG3	2.20	0.42
1:A:374:VAL:HG12	3:A:700[B]:NMX:O2I	2.20	0.42
1:A:221:ASP:HA	1:A:222:PRO:HD3	1.94	0.42
1:A:272:PRO:HA	1:A:276:LEU:HB3	2.02	0.42
1:A:287:GLN:HB3	1:A:304:TYR:OH	2.20	0.42
1:A:5:ASN:HD22	1:A:6:LEU:N	2.18	0.42
1:A:71:ILE:HB	1:A:72:PRO:HD3	2.01	0.42
1:A:91:GLY:HA3	4:A:514:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:434:SER:O	1:A:435:ALA:HB2	2.20	0.41
2:A:702:MLT:H32	3:A:700[B]:NMX:HI12	2.03	0.41
1:A:75:GLN:O	1:A:80:LYS:HE2	2.21	0.41
1:A:120:LEU:HD23	1:A:120:LEU:HA	1.80	0.40
1:A:48:MET:HE3	1:A:48:MET:HB3	1.96	0.40
1:A:40:MET:HE2	1:A:48:MET:HG3	2.03	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)
4:A:566:HOH:O	4:A:566:HOH:O[2_555]	0.72	1.48

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	433/435 (100%)	422 (98%)	9 (2%)	2 (0%)	32 17

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	294	ALA
1	A	435	ALA

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	361/361 (100%)	326 (90%)	35 (10%)	9 2

All (35) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	ASN
1	A	13	LEU
1	A	16	LYS
1	A	20	ARG
1	A	46	ARG
1	A	76	LYS
1	A	89	PRO
1	A	101	ILE
1	A	112	LYS
1	A	127	MET
1	A	149	ASN
1	A	160	GLU
1	A	164	ARG
1	A	193	LEU
1	A	203	ILE
1	A	205	SER
1	A	223	GLN
1	A	261	SER
1	A	278	ASN
1	A	282	LEU
1	A	287	GLN
1	A	290	LYS
1	A	291	ASP
1	A	297	SER
1	A	300	LYS
1	A	302	ARG
1	A	341	LEU
1	A	345	PRO
1	A	346	MET
1	A	368	LYS
1	A	380	VAL
1	A	383	GLN
1	A	390	MET
1	A	397	PHE
1	A	425	MET

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	ASN
1	A	106	GLN
1	A	123	HIS
1	A	136	HIS
1	A	140	GLN
1	A	149	ASN
1	A	153	ASN
1	A	192	ASN
1	A	211	HIS
1	A	212	ASN
1	A	215	ASN
1	A	267	ASN
1	A	278	ASN
1	A	289	GLN
1	A	352	GLN
1	A	364	GLN
1	A	391	ASN

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

3 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	$\# Z > 2$
3	NMX	A	700[A]	-	45,53,53	1.23	1 (2%)	49,79,79	0.89	1 (2%)
3	NMX	A	700[B]	-	45,53,53	0.96	1 (2%)	49,79,79	1.14	3 (6%)
2	MLT	A	702	-	2,8,8	0.16	0	4,10,10	2.88	3 (75%)

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
3	NMX	A	700[A]	-	-	0/46/67/67	0/3/3/3
3	NMX	A	700[B]	-	-	0/46/67/67	0/3/3/3
2	MLT	A	702	-	-	0/2/8/8	0/0/0/0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	700[B]	NMX	C6P-C5P	3.07	1.57	1.51
3	A	700[A]	NMX	O2I-N1I	5.88	1.33	1.21

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	700[B]	NMX	O5P-C5P-C6P	-4.87	112.85	122.01
2	A	702	MLT	C3-C2-C1	-2.25	108.14	111.11
3	A	700[B]	NMX	C6P-C5P-N4P	2.09	120.09	116.49
3	A	700[A]	NMX	O8A-P3B-O7A	2.87	121.74	110.50
3	A	700[B]	NMX	O8A-P3B-O7A	2.87	121.74	110.50
2	A	702	MLT	O3-C2-C3	3.15	115.58	108.65
2	A	702	MLT	C4-C3-C2	4.25	119.41	113.96

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	700[A]	NMX	1	0
3	A	700[B]	NMX	4	0
2	A	702	MLT	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	435/435 (100%)	-1.05	1 (0%) 94 92	3, 11, 34, 86	26 (5%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	294	ALA	2.2

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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
3	NMX	A	700[A]	51/51	0.98	0.05	1.83	1,11,33,63	9
3	NMX	A	700[B]	51/51	0.98	0.05	0.40	1,10,46,63	9
2	MLT	A	702	9/9	0.99	0.04	-0.94	4,6,9,11	0

6.5 Other polymers [i](#)

There are no such residues in this entry.