



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 10:30 PM UTC

PDB ID : 3EOL / pdb_00003eol
Title : 2.0A crystal structure of isocitrate lyase from Brucella melitensis (P43212)
Authors : Seattle Structural Genomics Center for Infectious Disease (SSGCID)
Deposited on : 2008-09-28
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

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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

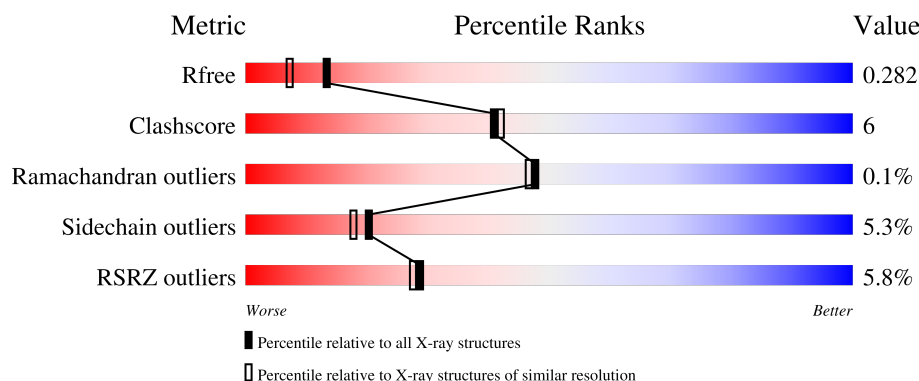
1 Overall quality at a glance

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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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 ≥ 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	433	5% 72% 12% 16%
1	B	433	5% 70% 12% 16%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	GOL	A	430	-	-	X	-
3	PEG	B	431	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5848 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 isocitrate lyase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	362	Total	C	N	O	S	0	1	0
			2804	1779	488	525	12			
1	B	362	Total	C	N	O	S	0	0	0
			2800	1778	485	525	12			

There are 8 discrepancies between the modelled and reference sequences:

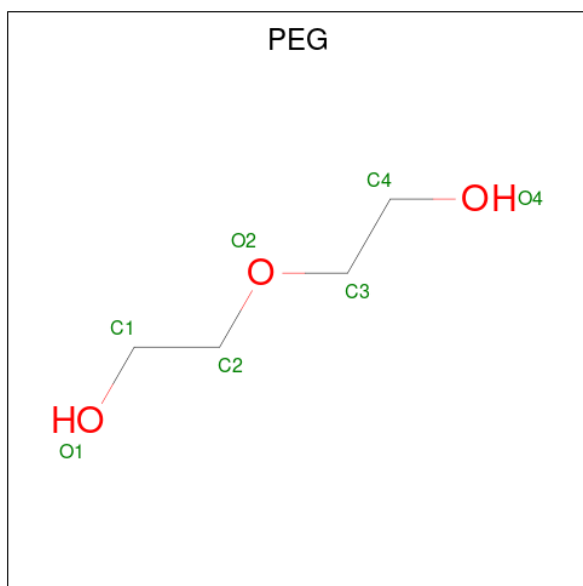
Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	GLY	-	expression tag	UNP Q8YIN4
A	-2	PRO	-	expression tag	UNP Q8YIN4
A	-1	GLY	-	expression tag	UNP Q8YIN4
A	0	SER	-	expression tag	UNP Q8YIN4
B	-3	GLY	-	expression tag	UNP Q8YIN4
B	-2	PRO	-	expression tag	UNP Q8YIN4
B	-1	GLY	-	expression tag	UNP Q8YIN4
B	0	SER	-	expression tag	UNP Q8YIN4

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 3 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			7	4	3		
3	B	1	Total	C	O	0	0
			7	4	3		

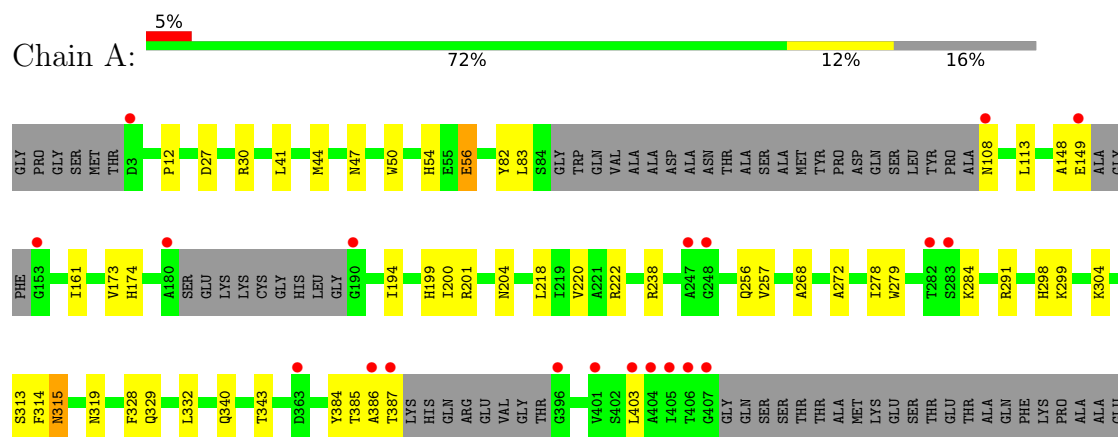
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	103	Total 103	O 103	0	0
4	B	121	Total 121	O 121	0	0

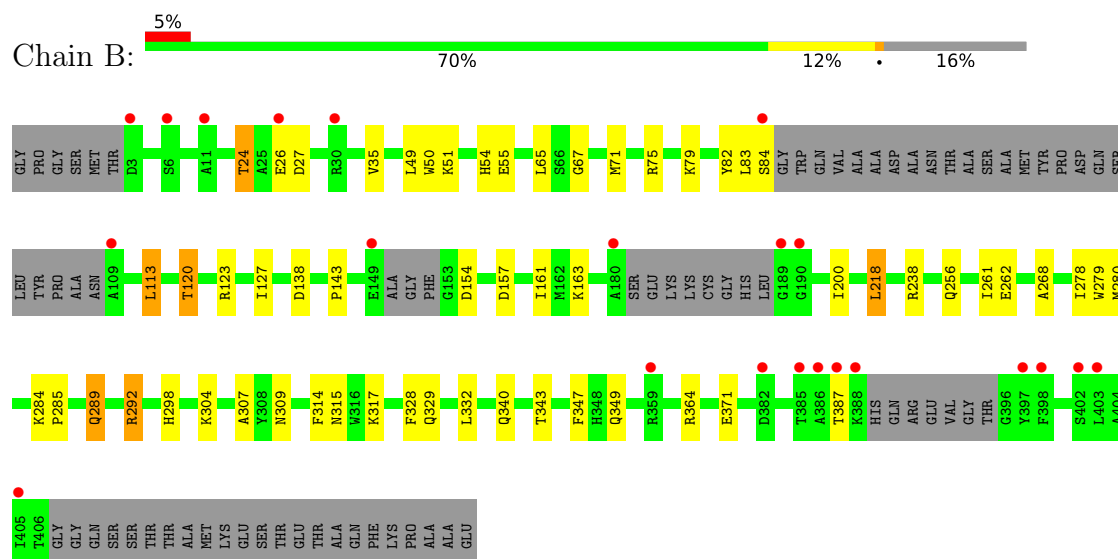
3 Residue-property plots [i](#)

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: isocitrate lyase



• Molecule 1: isocitrate lyase



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	79.70Å 79.70Å 281.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 2.00 30.00 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.9 (30.00-2.00) 99.8 (30.00-2.00)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.05 (at 2.00Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.221 , 0.263 (Not available) , 0.282	Depositor DCC
R_{free} test set	3161 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	37.3	Xtriage
Anisotropy	0.074	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 30.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5848	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 3.39% 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: PEG, GOL

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	0.65	0/2862	0.85	0/3863
1	B	0.66	0/2855	0.87	1/3854 (0.0%)
All	All	0.65	0/5717	0.86	1/7717 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	343	THR	N-CA-C	5.63	117.87	111.11

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	2804	0	2747	33	0
1	B	2800	0	2747	39	1
2	A	6	0	8	5	0
3	B	14	0	20	4	0
4	A	103	0	0	7	1
4	B	121	0	0	5	0
All	All	5848	0	5522	72	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 6.

All (72) 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:83:LEU:HD13	1:B:113:LEU:HD12	1.51	0.93
1:B:261:ILE:HD13	1:B:280:MET:HE1	1.61	0.82
1:B:298:HIS:HD2	4:B:448:HOH:O	1.65	0.79
1:B:83:LEU:CD1	1:B:113:LEU:HD12	2.14	0.77
1:B:50:TRP:O	1:B:54:HIS:HD2	1.70	0.73
1:B:83:LEU:HD13	1:B:113:LEU:CD1	2.20	0.71
1:A:315:ASN:C	1:A:315:ASN:HD22	1.99	0.71
1:A:54:HIS:HE1	4:A:482:HOH:O	1.74	0.70
1:A:343:THR:O	4:A:478:HOH:O	2.10	0.69
1:B:238:ARG:HH22	3:B:431:PEG:H12	1.57	0.69
1:A:291:ARG:NE	4:A:505:HOH:O	2.15	0.68
1:A:298:HIS:HD2	4:A:525:HOH:O	1.75	0.68
1:A:200:ILE:HD13	2:A:430:GOL:H11	1.76	0.68
1:B:67:GLY:HA3	1:B:120:THR:HG21	1.79	0.64
1:B:262:GLU:HG3	4:B:544:HOH:O	1.99	0.62
1:B:298:HIS:HE1	1:B:304:LYS:O	1.82	0.62
1:A:194:ILE:HD11	1:A:199:HIS:HB2	1.82	0.61
1:B:82:TYR:HE2	1:B:84:SER:HB2	1.66	0.61
1:A:291:ARG:NH2	4:A:505:HOH:O	2.32	0.60
1:A:298:HIS:HE1	1:A:304:LYS:O	1.85	0.60
1:A:27:ASP:OD1	1:A:30:ARG:NH2	2.37	0.58
1:B:315:ASN:C	1:B:315:ASN:HD22	2.12	0.57
1:A:50:TRP:O	1:A:54:HIS:HD2	1.88	0.56
1:A:238:ARG:HH22	2:A:430:GOL:H31	1.70	0.56
1:B:268:ALA:HB1	1:B:278:ILE:HG21	1.86	0.56
1:B:238:ARG:NH2	3:B:431:PEG:H12	2.21	0.55
1:A:291:ARG:CZ	4:A:505:HOH:O	2.56	0.53
1:A:41:LEU:HA	1:A:44:MET:HE3	1.92	0.52
1:B:82:TYR:CE2	1:B:84:SER:HB2	2.44	0.52
1:B:289:GLN:HE21	1:B:289:GLN:HA	1.75	0.52
1:B:65:LEU:HD11	1:B:347:PHE:HA	1.90	0.52
1:A:174:HIS:HB3	1:A:220:VAL:HB	1.93	0.51
1:B:50:TRP:O	1:B:54:HIS:CD2	2.59	0.50
1:B:67:GLY:HA3	1:B:120:THR:CG2	2.42	0.50
1:B:24:THR:HG23	1:B:26:GLU:H	1.76	0.50
1:B:54:HIS:HE1	4:B:455:HOH:O	1.93	0.50
1:A:329:GLN:HA	1:A:340:GLN:HE22	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:LEU:HD23	1:B:218:LEU:HG	1.93	0.49
1:B:329:GLN:HA	1:B:340:GLN:HE22	1.77	0.49
1:A:238:ARG:NH2	2:A:430:GOL:H31	2.28	0.49
1:B:238:ARG:HH22	3:B:431:PEG:C1	2.24	0.49
1:B:24:THR:HG23	1:B:26:GLU:N	2.29	0.47
1:A:272:ALA:HB2	1:A:278:ILE:HD11	1.96	0.46
1:A:238:ARG:HH12	2:A:430:GOL:H31	1.81	0.46
1:B:285:PRO:HD2	1:B:314:PHE:CG	2.51	0.46
1:B:279:TRP:HB2	1:B:307:ALA:HB3	1.97	0.46
1:A:56:GLU:HA	1:A:56:GLU:OE2	2.15	0.46
1:A:82:TYR:CE2	1:A:343:THR:HG22	2.51	0.46
1:B:200:ILE:HD13	3:B:431:PEG:H21	1.98	0.46
1:A:384:TYR:CZ	1:A:386:ALA:HB3	2.51	0.45
1:A:328:PHE:CE2	1:A:332:LEU:HD11	2.50	0.45
1:A:148:ALA:HB2	1:A:173:VAL:CG1	2.46	0.45
1:B:51:LYS:HE3	1:B:55:GLU:OE1	2.17	0.45
1:B:289:GLN:HE22	1:B:292:ARG:HH21	1.65	0.44
1:A:201:ARG:NH2	4:A:471:HOH:O	2.50	0.44
1:B:364:ARG:NH1	1:B:371:GLU:OE2	2.46	0.44
1:A:12:PRO:HD3	1:A:47:ASN:OD1	2.18	0.44
1:A:268:ALA:HB1	1:A:278:ILE:HG21	2.00	0.44
1:A:315:ASN:C	1:A:315:ASN:ND2	2.69	0.43
1:A:222:ARG:HA	1:A:279:TRP:O	2.19	0.43
1:A:385:THR:C	1:A:387:THR:H	2.26	0.43
1:B:261:ILE:HG12	4:B:482:HOH:O	2.20	0.42
1:B:309:ASN:HB3	4:B:546:HOH:O	2.20	0.42
1:B:328:PHE:CE2	1:B:332:LEU:HD11	2.55	0.42
1:A:314:PHE:CZ	1:A:319:ASN:HB2	2.55	0.42
1:B:123:ARG:O	1:B:127:ILE:HG13	2.19	0.41
1:A:161:ILE:HD12	1:A:161:ILE:HA	1.91	0.41
1:B:24:THR:CG2	1:B:27:ASP:H	2.34	0.41
1:B:24:THR:HG22	1:B:27:ASP:H	1.86	0.41
1:B:71:MET:CE	1:B:75:ARG:HH21	2.34	0.41
1:A:238:ARG:NH1	2:A:430:GOL:H31	2.36	0.40
1:B:79:LYS:O	1:B:143:PRO:HD2	2.21	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:138:ASP:OD1	4:A:443:HOH:O[1_545]	2.08	0.12

5.3 Torsion angles

5.3.1 Protein backbone

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	353/433 (82%)	348 (99%)	5 (1%)	0	100	100
1	B	352/433 (81%)	347 (99%)	4 (1%)	1 (0%)	36	35
All	All	705/866 (81%)	695 (99%)	9 (1%)	1 (0%)	48	46

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	154	ASP

5.3.2 Protein sidechains

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	275/328 (84%)	261 (95%)	14 (5%)	21	19
1	B	275/328 (84%)	260 (94%)	15 (6%)	19	17
All	All	550/656 (84%)	521 (95%)	29 (5%)	20	18

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	56	GLU
1	A	83	LEU
1	A	108	ASN
1	A	113	LEU
1	A	149	GLU

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Mol	Chain	Res	Type
1	A	204	ASN
1	A	218	LEU
1	A	256	GLN
1	A	257	VAL
1	A	284	LYS
1	A	299	LYS
1	A	313	SER
1	A	315	ASN
1	A	403	LEU
1	B	24	THR
1	B	35	VAL
1	B	113	LEU
1	B	120	THR
1	B	157	ASP
1	B	161	ILE
1	B	163	LYS
1	B	218	LEU
1	B	256	GLN
1	B	284	LYS
1	B	289	GLN
1	B	292	ARG
1	B	317	LYS
1	B	349	GLN
1	B	387	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	54	HIS
1	A	122	GLN
1	A	126	GLN
1	A	204	ASN
1	A	298	HIS
1	A	309	ASN
1	A	315	ASN
1	A	340	GLN
1	B	54	HIS
1	B	122	GLN
1	B	202	ASN
1	B	289	GLN
1	B	298	HIS
1	B	309	ASN

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Mol	Chain	Res	Type
1	B	315	ASN
1	B	319	ASN
1	B	340	GLN
1	B	348	HIS

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 oligosaccharides 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	$\# Z > 2$
2	GOL	A	430	-	5,5,5	0.28	0	5,5,5	0.52	0
3	PEG	B	431	-	6,6,6	0.40	0	5,5,5	0.30	0
3	PEG	B	430	-	6,6,6	0.43	0	5,5,5	0.62	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
2	GOL	A	430	-	-	2/4/4/4	-
3	PEG	B	431	-	-	2/4/4/4	-
3	PEG	B	430	-	-	3/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	430	GOL	C1-C2-C3-O3
3	B	430	PEG	O2-C3-C4-O4
3	B	431	PEG	O2-C3-C4-O4
2	A	430	GOL	O2-C2-C3-O3
3	B	430	PEG	C1-C2-O2-C3
3	B	430	PEG	O1-C1-C2-O2
3	B	431	PEG	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	430	GOL	5	0
3	B	431	PEG	4	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

6.1 Protein, DNA and RNA chains

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	362/433 (83%)	0.43	20 (5%) 30 29	20, 36, 53, 67	1 (0%)
1	B	362/433 (83%)	0.38	22 (6%) 27 26	27, 35, 54, 65	0
All	All	724/866 (83%)	0.40	42 (5%) 29 27	20, 35, 54, 67	1 (0%)

All (42) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	398	PHE	4.0
1	B	189	GLY	3.9
1	B	149	GLU	3.8
1	A	386	ALA	3.3
1	A	180	ALA	3.2
1	B	382	ASP	3.1
1	A	407	GLY	3.0
1	B	386	ALA	3.0
1	A	406	THR	3.0
1	A	283	SER	3.0
1	A	108	ASN	2.9
1	A	387	THR	2.9
1	B	405	ILE	2.9
1	B	180	ALA	2.9
1	B	190	GLY	2.8
1	A	153	GLY	2.8
1	B	109	ALA	2.7
1	B	388	LYS	2.7
1	A	405	ILE	2.7
1	B	385	THR	2.6
1	B	387	THR	2.6
1	A	401	VAL	2.5
1	B	397	TYR	2.5
1	A	404	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	11	ALA	2.5
1	B	26	GLU	2.5
1	A	149	GLU	2.4
1	B	84	SER	2.4
1	A	248	GLY	2.3
1	B	6	SER	2.3
1	B	403	LEU	2.3
1	B	402	SER	2.2
1	A	282	THR	2.2
1	A	247	ALA	2.2
1	A	3	ASP	2.1
1	A	396	GLY	2.1
1	B	3	ASP	2.1
1	A	403	LEU	2.0
1	A	363	ASP	2.0
1	B	359	ARG	2.0
1	B	30	ARG	2.0
1	A	190	GLY	2.0

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 oligosaccharides 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	GOL	A	430	6/6	0.83	0.14	45,49,50,52	0
3	PEG	B	431	7/7	0.83	0.17	42,48,50,50	0
3	PEG	B	430	7/7	0.89	0.14	48,49,49,51	0

6.5 Other polymers [i](#)

There are no such residues in this entry.