



# Full wwPDB X-ray Structure Validation Report i

Dec 12, 2023 – 05:46 pm GMT

PDB ID : 4PHO  
Title : ClyA CC6/264 ox (2-303)  
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Deposited on : 2014-05-06  
Resolution : 2.12 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 i 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](#) i) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
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

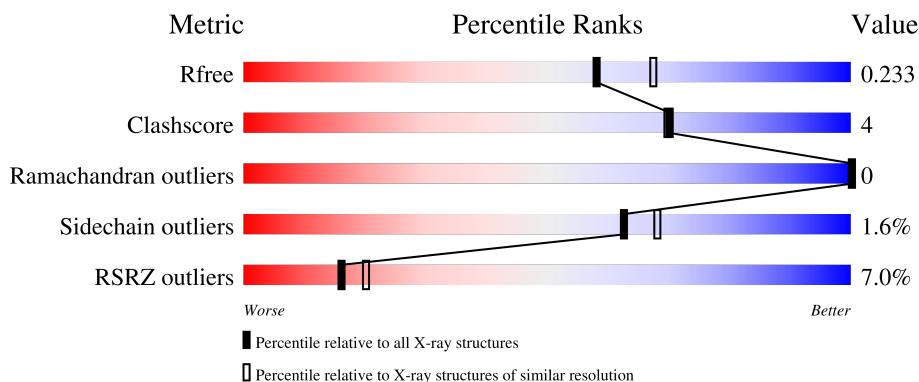
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## X-RAY DIFFRACTION

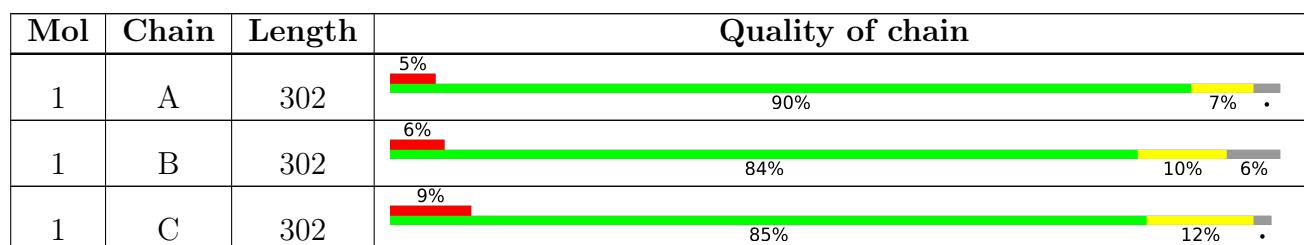
The reported resolution of this entry is 2.12 Å.

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	6241 (2.14-2.10)
Clashscore	141614	6778 (2.14-2.10)
Ramachandran outliers	138981	6705 (2.14-2.10)
Sidechain outliers	138945	6706 (2.14-2.10)
RSRZ outliers	127900	6112 (2.14-2.10)

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.



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	B	402	-	-	X	-

## 2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 7266 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.

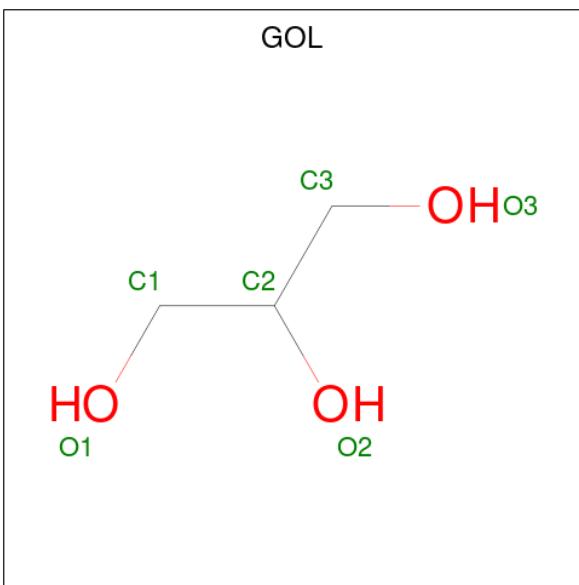
- Molecule 1 is a protein called Hemolysin E, chromosomal.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	A	292	Total	C 2301	N 1464	O 373	S 459	5	0	2	0
1	B	285	Total	C 2250	N 1433	O 363	S 449	5	0	1	0
1	C	295	Total	C 2320	N 1479	O 374	S 462	5	0	1	0

There are 12 discrepancies between the modelled and reference sequences:

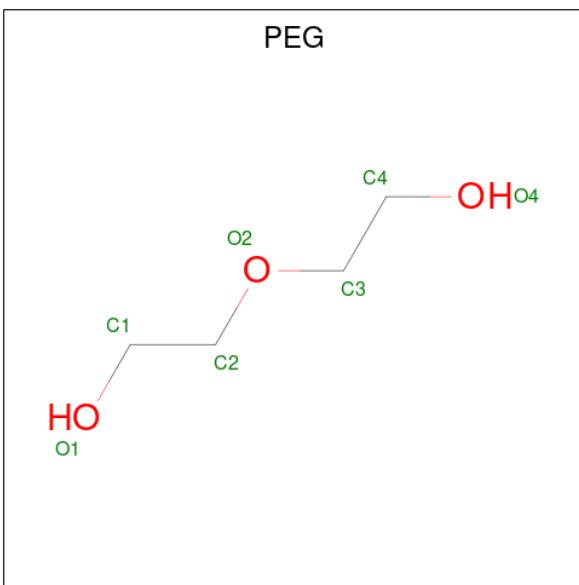
Chain	Residue	Modelled	Actual	Comment	Reference
A	6	CYS	ALA	engineered mutation	UNP P77335
A	87	ALA	CYS	engineered mutation	UNP P77335
A	264	CYS	VAL	engineered mutation	UNP P77335
A	285	ALA	CYS	engineered mutation	UNP P77335
B	6	CYS	ALA	engineered mutation	UNP P77335
B	87	ALA	CYS	engineered mutation	UNP P77335
B	264	CYS	VAL	engineered mutation	UNP P77335
B	285	ALA	CYS	engineered mutation	UNP P77335
C	6	CYS	ALA	engineered mutation	UNP P77335
C	87	ALA	CYS	engineered mutation	UNP P77335
C	264	CYS	VAL	engineered mutation	UNP P77335
C	285	ALA	CYS	engineered mutation	UNP P77335

- Molecule 2 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
2	A	1	Total C O 6 3 3	0	0
2	B	1	Total C O 6 3 3	0	0
2	B	1	Total C O 6 3 3	0	0

- Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C<sub>4</sub>H<sub>10</sub>O<sub>3</sub>).



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

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

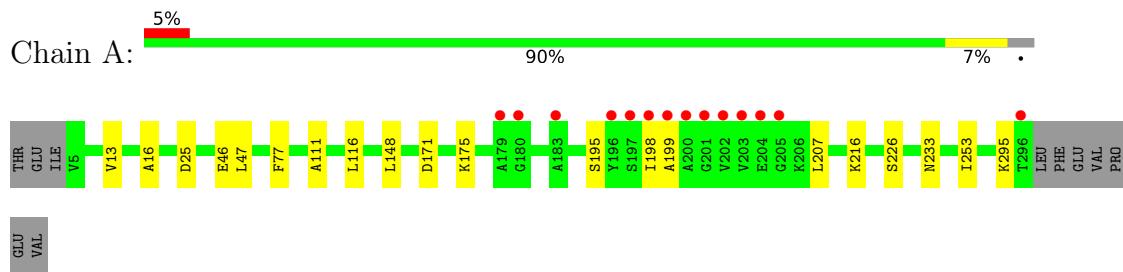
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	166	Total O 166 166	0	0
4	B	105	Total O 105 105	0	0
4	C	92	Total O 92 92	0	0

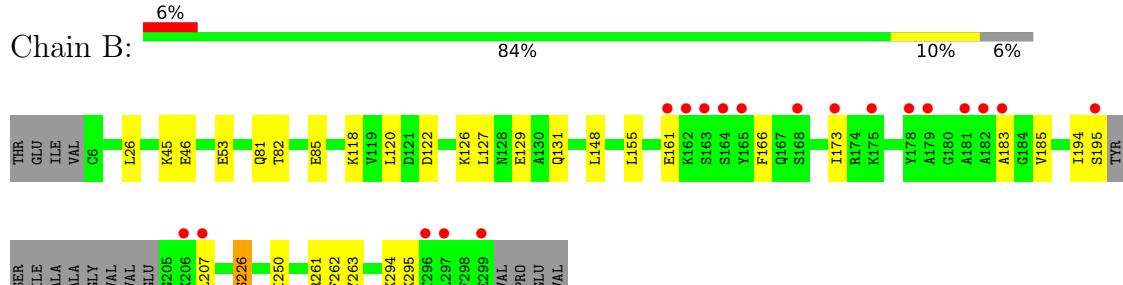
### 3 Residue-property plots [\(i\)](#)

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: Hemolysin E, chromosomal



- Molecule 1: Hemolysin E, chromosomal



## 4 Data and refinement statistics i

Property	Value			Source
Space group	C 2 2 21			Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	94.92 Å 90.00°	125.60 Å 90.00°	186.81 Å 90.00°	Depositor
Resolution (Å)	48.10	–	2.12	Depositor
	48.10	–	2.12	EDS
% Data completeness (in resolution range)	93.5 (48.10-2.12) 92.9 (48.10-2.12)			Depositor EDS
$R_{merge}$	0.06			Depositor
$R_{sym}$	(Not available)			Depositor
$\langle I/\sigma(I) \rangle^1$	2.39 (at 2.12 Å)			Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)			Depositor
$R$ , $R_{free}$	0.185 , 0.187 ,	0.231 0.233		Depositor DCC
$R_{free}$ test set	3234 reflections (5.12%)			wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	39.6			Xtriage
Anisotropy	0.776			Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 57.9			EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$			Xtriage
Estimated twinning fraction	No twinning to report.			Xtriage
$F_o, F_c$ correlation	0.97			EDS
Total number of atoms	7266			wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	72.0			wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.93% 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: 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	0.39	0/2332	0.49	0/3147
1	B	0.34	0/2280	0.44	0/3073
1	C	0.33	0/2352	0.45	0/3174
All	All	0.35	0/6964	0.46	0/9394

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	2301	0	2326	14	0
1	B	2250	0	2273	21	0
1	C	2320	0	2345	17	0
2	A	6	0	8	1	0
2	B	12	0	16	5	0
3	A	7	0	10	0	0
3	C	7	0	10	0	0
4	A	166	0	0	2	0
4	B	105	0	0	0	0
4	C	92	0	0	0	0
All	All	7266	0	6988	50	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 4.

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:B:262:PHE:H	2:B:402:GOL:H12	1.44	0.79
1:C:5:VAL:HG13	1:C:7:ASP:H	1.53	0.73
1:B:46:GLU:OE2	2:B:401:GOL:O2	2.18	0.60
1:C:277:ALA:HA	1:C:280:LYS:HE3	1.82	0.59
1:A:16:ALA:HA	1:A:253:ILE:HG21	1.84	0.59
1:B:263:TYR:H	2:B:402:GOL:H32	1.68	0.59
1:A:295:LYS:NZ	4:A:658:HOH:O	2.35	0.58
1:C:185:VAL:HG23	1:C:195:SER:HA	1.85	0.57
1:C:5:VAL:HG22	1:C:6:CYS:H	1.68	0.57
1:A:46:GLU:OE1	2:A:401:GOL:O1	2.23	0.57
1:A:13:VAL:HG13	1:A:116:LEU:HD21	1.89	0.55
1:A:148:LEU:HD13	1:A:226:SER:HA	1.90	0.54
1:C:148:LEU:HD13	1:C:226:SER:HA	1.91	0.52
1:B:148:LEU:HD13	1:B:226:SER:HA	1.93	0.51
1:B:81:GLN:O	1:B:85:GLU:HG3	2.10	0.51
1:A:199:ALA:HA	1:A:207:LEU:HD22	1.94	0.49
1:B:261:ARG:HA	2:B:402:GOL:H12	1.95	0.49
1:B:85:GLU:OE1	1:B:126:LYS:NZ	2.46	0.48
1:C:175:LYS:HA	1:C:178:TYR:CE2	2.48	0.48
1:C:120:LEU:HD22	1:C:250:ILE:HG23	1.94	0.48
1:C:13:VAL:HG13	1:C:116:LEU:HD11	1.96	0.48
4:A:553:HOH:O	1:C:276:GLU:HG3	2.14	0.47
1:A:171:ASP:HB2	1:A:175:LYS:NZ	2.30	0.47
1:C:165:TYR:O	1:C:169:GLN:HG2	2.15	0.47
1:C:194:ILE:HG21	1:C:198:ILE:HG21	1.97	0.47
1:A:171:ASP:O	1:A:175:LYS:HD3	2.15	0.47
1:B:82:THR:HG21	1:B:129:GLU:HG3	1.97	0.46
1:A:111:ALA:HB1	1:B:183:ALA:HA	1.97	0.46
1:B:262:PHE:N	2:B:402:GOL:H12	2.22	0.45
1:B:173:ILE:HG21	1:B:207:LEU:HD11	1.98	0.45
1:C:75:LYS:HA	1:C:75:LYS:HD3	1.84	0.45
1:C:182:ALA:HA	1:C:196:TYR:CZ	2.52	0.44
1:B:127:LEU:O	1:B:131:GLN:HG2	2.17	0.44
1:C:10:VAL:HG21	1:C:270:MET:HG2	2.00	0.44
1:B:185:VAL:HA	1:B:194:ILE:O	2.17	0.43
1:A:77:PHE:CZ	1:B:45:LYS:HE3	2.53	0.43
1:B:194:ILE:HG22	1:B:195:SER:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:56:GLN:O	1:C:60:VAL:HG23	2.19	0.42
1:C:16:ALA:HA	1:C:253:ILE:HG21	2.01	0.42
1:B:294:LYS:HG2	1:B:295:LYS:O	2.20	0.41
1:B:26:LEU:HA	1:B:26:LEU:HD23	1.86	0.41
1:A:198:ILE:HD13	1:A:198:ILE:HA	1.94	0.41
1:A:216:LYS:HD2	1:A:216:LYS:HA	1.85	0.41
1:B:120:LEU:HD22	1:B:250:ILE:HG23	2.03	0.41
1:A:47:LEU:HD23	1:A:47:LEU:HA	1.94	0.41
1:B:155:LEU:HD23	1:B:155:LEU:HA	1.87	0.40
1:C:30:TYR:CE2	1:C:239:ALA:HB2	2.56	0.40
1:A:171:ASP:HB2	1:A:175:LYS:HZ3	1.86	0.40
1:B:118:LYS:HE3	1:B:122[B]:ASP:OD2	2.22	0.40
1:B:161:GLU:HA	1:B:166:PHE:CD1	2.56	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	292/302 (97%)	290 (99%)	2 (1%)	0	100 100
1	B	282/302 (93%)	279 (99%)	3 (1%)	0	100 100
1	C	294/302 (97%)	292 (99%)	2 (1%)	0	100 100
All	All	868/906 (96%)	861 (99%)	7 (1%)	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	250/258 (97%)	247 (99%)	3 (1%)	71 77
1	B	245/258 (95%)	243 (99%)	2 (1%)	81 86
1	C	252/258 (98%)	245 (97%)	7 (3%)	43 46
All	All	747/774 (96%)	735 (98%)	12 (2%)	62 68

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

Mol	Chain	Res	Type
1	A	25	ASP
1	A	195	SER
1	A	233	ASN
1	B	53	GLU
1	B	226	SER
1	C	53	GLU
1	C	110	SER
1	C	186	VAL
1	C	194	ILE
1	C	207	LEU
1	C	233	ASN
1	C	296	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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)

5 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	B	401	-	5,5,5	0.42	0	5,5,5	0.18	0
2	GOL	A	401	-	5,5,5	0.31	0	5,5,5	0.88	0
2	GOL	B	402	-	5,5,5	0.43	0	5,5,5	0.27	0
3	PEG	A	402	-	6,6,6	0.61	0	5,5,5	0.58	0
3	PEG	C	401	-	6,6,6	0.61	0	5,5,5	0.81	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	B	401	-	-	2/4/4/4	-
2	GOL	A	401	-	-	2/4/4/4	-
2	GOL	B	402	-	-	2/4/4/4	-
3	PEG	A	402	-	-	2/4/4/4	-
3	PEG	C	401	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	401	GOL	O1-C1-C2-C3
2	B	402	GOL	O1-C1-C2-C3
2	B	402	GOL	O1-C1-C2-O2
3	C	401	PEG	O2-C3-C4-O4
2	A	401	GOL	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
2	B	401	GOL	O1-C1-C2-O2
3	A	402	PEG	O2-C3-C4-O4
2	A	401	GOL	O1-C1-C2-O2
3	A	402	PEG	C4-C3-O2-C2

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	401	GOL	1	0
2	A	401	GOL	1	0
2	B	402	GOL	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 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	292/302 (96%)	0.31	14 (4%) 30 35	37, 59, 117, 172	0
1	B	285/302 (94%)	0.30	19 (6%) 17 22	43, 72, 114, 142	0
1	C	295/302 (97%)	0.68	28 (9%) 8 10	46, 70, 144, 173	0
All	All	872/906 (96%)	0.43	61 (6%) 16 20	37, 68, 122, 173	0

All (61) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	200	ALA	16.4
1	C	204	GLU	11.5
1	C	203	VAL	10.6
1	A	200	ALA	10.6
1	C	199	ALA	10.0
1	A	198	ILE	9.1
1	C	178	TYR	9.1
1	C	201	GLY	7.7
1	C	196	TYR	7.3
1	C	198	ILE	7.1
1	A	199	ALA	7.1
1	A	204	GLU	6.8
1	C	205	GLY	6.6
1	C	180	GLY	6.0
1	A	202	VAL	5.9
1	A	197	SER	5.8
1	B	178	TYR	5.8
1	A	201	GLY	5.7
1	B	182	ALA	5.5
1	C	202	VAL	5.2
1	C	182	ALA	5.1
1	C	175	LYS	4.9
1	C	179	ALA	4.5

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Mol	Chain	Res	Type	RSRZ
1	C	5	VAL	4.5
1	A	196	TYR	4.4
1	A	203	VAL	4.4
1	B	195	SER	4.2
1	C	181	ALA	4.1
1	A	183	ALA	4.1
1	C	297	LEU	4.1
1	A	205	GLY	3.9
1	B	297	LEU	3.8
1	A	180	GLY	3.8
1	C	171	ASP	3.6
1	C	197	SER	3.5
1	C	174	ARG	3.3
1	B	207	LEU	3.2
1	A	296	THR	3.0
1	B	175	LYS	3.0
1	B	179	ALA	2.9
1	B	296	THR	2.9
1	C	206	LYS	2.7
1	B	181	ALA	2.6
1	C	183	ALA	2.6
1	B	173	ILE	2.5
1	B	206	LYS	2.5
1	C	177	ALA	2.5
1	B	164	SER	2.4
1	B	183	ALA	2.4
1	B	162	LYS	2.3
1	C	173	ILE	2.3
1	B	168	SER	2.2
1	B	299	GLU	2.2
1	C	207	LEU	2.1
1	B	163	SER	2.1
1	C	298	PHE	2.1
1	C	172	LYS	2.1
1	A	179	ALA	2.1
1	C	261	ARG	2.1
1	B	165	TYR	2.1
1	B	161	GLU	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 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	PEG	A	402	7/7	0.65	0.35	82,92,97,98	0
3	PEG	C	401	7/7	0.85	0.19	61,66,68,68	0
2	GOL	A	401	6/6	0.88	0.15	49,55,69,75	0
2	GOL	B	401	6/6	0.89	0.15	78,84,89,93	0
2	GOL	B	402	6/6	0.91	0.20	80,89,90,94	0

## 6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.