

# Full wwPDB X-ray Structure Validation Report (i)

#### Nov 12, 2024 – 11:49 AM EST

PDB ID	:	3Q4K
Title	:	Structure of a small peptide ligand bound to E.coli DNA sliding clamp
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Deposited on	:	2010-12-23
Resolution	:	2.60  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 (1)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 2.60 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.



Motria	Whole archive	Similar resolution
Metric	$(\# {\rm Entries})$	$(\# { m Entries},  { m resolution}  { m range}({ m \AA}))$
R <sub>free</sub>	164625	3775 (2.60-2.60)
Clashscore	180529	4181 (2.60-2.60)
Ramachandran outliers	177936	4129 (2.60-2.60)
Sidechain outliers	177891	4129 (2.60-2.60)
RSRZ outliers	164620	3775 (2.60-2.60)

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 cl	nain		
1	А	366	3%	87%		10%	••
1	В	366	4%	84%		13%	••
2	С	6	33%	17%	50%		_
2	D	6	17%	50%	33%	9	



## 2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 5680 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 DNA polymerase III subunit beta.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace
1	А	356	Total 2697	C 1699	N 464	O 515	S 19	0	0	0
1	В	360	Total 2743	C 1733	N 475	0 516	S 19	0	1	0

• Molecule 2 is a protein called peptide ligand.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	C	6	Total	С	Cl	Ν	0	0	0	0
		0	52	35	1	6	10	0	0	0
9	Л	6	Total	С	Cl	Ν	0	0	0	0
2 D	0	52	35	1	6	10	0		0	

• Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	66	Total         O           66         66	0	0
3	В	68	Total         O           68         68	0	0
3	С	2	Total O 2 2	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.

- Chain A: 87% 10% PRO • Molecule 1: DNA polymerase III subunit beta Chain B: 84% 13% PRO GLY GLY • Molecule 2: peptide ligand Chain C: 33% 17% 50% • Molecule 2: peptide ligand Chain D: 17% 50% 33%
- Molecule 1: DNA polymerase III subunit beta



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	36.25Å 80.00Å 82.18Å	Deneiten
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$66.15^{\circ}$ $74.94^{\circ}$ $82.03^{\circ}$	Depositor
$\mathbf{P}_{\text{acclution}}(\hat{\mathbf{A}})$	19.92 - 2.60	Depositor
Resolution (A)	19.92 - 2.60	EDS
% Data completeness	(Not available) (19.92-2.60)	Depositor
(in resolution range)	91.7(19.92-2.60)	EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.40 (at 2.59 \text{\AA})$	Xtriage
Refinement program	BUSTER-TNT BUSTER 2.8.0, BUSTER 2.8.0	Depositor
D D	0.228 , $0.294$	Depositor
$\mathbf{n}, \mathbf{n}_{free}$	0.231 , $0.296$	DCC
$R_{free}$ test set	1158 reflections $(5.04\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	30.4	Xtriage
Anisotropy	0.231	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.34, 55.3	EDS
L-test for twinning <sup>2</sup>	$< L >=0.51, < L^2>=0.34$	Xtriage
Estimated twinning fraction	0.000 for -h,-h+l,-h+k	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	5680	wwPDB-VP
Average B, all atoms $(Å^2)$	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.91% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: ACE, 200, ALC

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	Bo	nd lengths	Bond angles		
	Unain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.48	0/2742	0.72	0/3720	
1	В	0.50	0/2794	0.73	1/3788~(0.0%)	
2	С	3.12	3/24~(12.5%)	2.20	2/30~(6.7%)	
2	D	2.88	1/24~(4.2%)	1.71	0/30	
All	All	0.56	4/5584~(0.1%)	0.74	3/7568~(0.0%)	

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	С	0	3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	С	370	ASP	C-N	6.63	1.49	1.34
2	D	370	ASP	C-N	6.08	1.48	1.34
2	С	368	GLN	N-CA	5.17	1.56	1.46
2	С	367	ACE	C-N	5.17	1.46	1.34

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms		$Observed(^{o})$	$Ideal(^{o})$
2	С	370	ASP	CB-CG-OD2	-7.18	111.83	118.30
1	В	250	LYS	N-CA-C	5.73	126.48	111.00
2	С	370	ASP	CB-CA-C	5.18	120.76	110.40

There are no chirality outliers.



All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	С	368	GLN	Peptide
2	С	369	ALC	Mainchain,Peptide

#### 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	А	2697	0	2646	18	0
1	В	2743	0	2714	27	0
2	С	52	0	49	6	0
2	D	52	0	49	3	0
3	А	66	0	0	0	0
3	В	68	0	0	1	0
3	С	2	0	0	0	0
All	All	5680	0	5458	48	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 (48) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom 1	Atom 2	Interatomic	Clash
Atom-1	Atom-2	distance $(\text{\AA})$	overlap (Å)
2:C:368:GLN:NE2	2:C:369:ALC:O	2.25	0.68
1:A:247:VAL:HG11	2:C:371:LEU:HD22	1.75	0.67
1:B:126:VAL:HG12	1:B:218:ILE:HB	1.83	0.59
1:A:214:LEU:HD12	1:A:227:VAL:HB	1.84	0.59
1:B:153:TYR:HE2	1:B:238:ASP:O	1.86	0.59
1:B:247:VAL:HG11	2:D:371:LEU:HD22	1.85	0.57
1:B:214:LEU:HD12	1:B:227:VAL:HB	1.87	0.57
1:B:137:ARG:NH2	1:B:356:SER:OG	2.39	0.56
1:A:348:GLN:HG3	1:A:360:VAL:HG22	1.87	0.56
1:B:13:PRO:HA	1:B:230:PHE:HE1	1.70	0.56
2:C:369:ALC:HA	2:C:370:ASP:HB2	1.88	0.56
1:B:341:THR:HG22	1:B:345:SER:HB2	1.88	0.55
1:A:184:ILE:HD11	1:A:188:LEU:HD11	1.89	0.53

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	A h o	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:A:13:PRO:HA	1:A:230:PHE:HE1	1.73	0.53
1:A:17:VAL:HG12	1:A:53:MET:HG3	1.92	0.50
1:B:17:VAL:HG12	1:B:53:MET:HG3	1.93	0.50
1:B:221:ASN:ND2	3:B:440:HOH:O	2.45	0.49
1:B:150:ASP:H	1:B:156:ASN:HD21	1.59	0.49
2:C:368:GLN:HG3	2:C:369:ALC:O	2.13	0.48
1:B:215:ARG:HB2	1:B:226:HIS:HB2	1.95	0.47
1:A:362:MET:HG3	2:C:369:ALC:HB3	1.97	0.47
1:A:150:ASP:H	1:A:156:ASN:HD21	1.61	0.47
1:B:5:VAL:HG11	1:B:10:LEU:HD13	1.98	0.46
1:B:30:LEU:HD11	1:B:49:LEU:HD22	1.97	0.46
1:B:13:PRO:HA	1:B:230:PHE:CE1	2.50	0.45
1:A:170:VAL:HG13	1:A:177:LEU:HD11	1.97	0.45
1:A:296:ASN:HB2	1:A:297:PRO:CD	2.46	0.45
1:B:50:GLU:HA	1:B:235:LYS:HD2	1.99	0.45
1:B:128:PHE:HB3	1:B:188:LEU:HD21	1.98	0.44
1:A:172:THR:HG21	2:C:372:200:CL	2.55	0.44
1:A:13:PRO:HA	1:A:230:PHE:CE1	2.53	0.44
1:A:16:GLN:O	1:A:53:MET:HG2	2.17	0.44
1:A:286:SER:O	1:A:287:GLU:C	2.57	0.43
1:B:365:ARG:O	2:D:367:ACE:H3	2.18	0.43
1:B:150:ASP:OD1	1:B:152:ARG:HD3	2.19	0.43
1:B:293:THR:HG22	1:B:303:GLU:HG3	2.01	0.43
1:A:50:GLU:HA	1:A:235:LYS:HD2	2.01	0.42
1:B:296:ASN:HB2	1:B:297:PRO:CD	2.50	0.42
1:A:288:ASN:HD22	1:A:310:TYR:H	1.68	0.42
1:B:341:THR:HG22	1:B:342:ASP:H	1.85	0.42
1:B:100:ARG:HG2	1:B:105:ARG:HG2	2.02	0.42
1:A:293:THR:HG22	1:A:303:GLU:HG3	2.02	0.42
1:B:129:THR:HG22	1:B:215:ARG:HG2	2.01	0.42
1:B:217:GLN:NE2	1:B:226:HIS:HE1	2.18	0.41
1:B:344:VAL:HG12	2:D:369:ALC:HE12	2.01	0.41
1:B:340:LEU:HG	1:B:347:VAL:HG23	2.02	0.41
1:B:296:ASN:OD1	1:B:298:GLU:HG2	2.20	0.41
1:A:247:VAL:O	1:A:249:PRO:HD3	2.21	0.41

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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	Perce	ntiles
1	А	350/366~(96%)	341 (97%)	8 (2%)	1 (0%)	37	59
1	В	357/366~(98%)	345~(97%)	11 (3%)	1 (0%)	37	59
2	С	3/6~(50%)	2~(67%)	0	1 (33%)	0	0
2	D	3/6~(50%)	3 (100%)	0	0	100	100
All	All	713/744~(96%)	691 (97%)	19 (3%)	3 (0%)	30	52

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	С	370	ASP
1	А	287	GLU
1	В	209	GLY

#### 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 side chain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
1	А	288/313~(92%)	279~(97%)	9~(3%)	35	62
1	В	293/313~(94%)	279~(95%)	14 (5%)	21	44
2	С	3/3~(100%)	3~(100%)	0	100	100
2	D	3/3~(100%)	2~(67%)	1 (33%)	0	0
All	All	587/632~(93%)	563~(96%)	24 (4%)	26	51

All (24) residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	А	124	SER
1	А	176	ARG
1	А	181	SER
1	А	197	ARG
1	А	202	GLU
1	А	205	ARG
1	А	247	VAL
1	А	257	GLU
1	А	301	GLU
1	В	10	LEU
1	В	11	LEU
1	В	49	LEU
1	В	60	VAL
1	В	73	ARG
1	В	176	ARG
1	В	181	SER
1	В	187	SER
1	В	207	LEU
1	В	244	TYR
1	В	246	ARG
1	В	247	VAL
1	В	340	LEU
1	В	341	THR
2	D	370	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	149	GLN
1	А	156	ASN
1	А	288	ASN
1	А	329	ASN
1	А	335	ASN
1	В	156	ASN
1	В	217	GLN
1	В	221	ASN
1	В	226	HIS
1	В	329	ASN
1	В	335	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)

4 non-standard protein/DNA/RNA residues 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).

Mal	Turne	Chain	Dec	Tink	Bo	ond leng	$_{\rm sths}$	B	ond ang	les
	туре	Unain	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	200	C	372	2	12,13,13	2.21	2 (16%)	13,17,17	0.89	0
2	200	D	372	2	12,13,13	1.96	2 (16%)	13,17,17	1.27	1 (7%)
2	ALC	С	369	2	9,11,12	1.36	1 (11%)	11,13,15	2.35	4 (36%)
2	ALC	D	369	2	9,11,12	1.32	1 (11%)	11,13,15	2.60	5 (45%)

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	200	С	372	2	-	2/8/8/8	0/1/1/1
2	200	D	372	2	-	6/8/8/8	0/1/1/1
2	ALC	С	369	2	-	2/5/14/16	0/1/1/1
2	ALC	D	369	2	-	2/5/14/16	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	С	372	200	O-C	6.45	1.41	1.22
2	D	372	200	O-C	5.84	1.39	1.22
2	С	372	200	OXT-C	3.65	1.42	1.30
2	D	369	ALC	CB-CG	3.35	1.58	1.53
2	С	369	ALC	CB-CG	3.26	1.58	1.53
2	D	372	200	OXT-C	2.69	1.39	1.30



Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
2	D	369	ALC	CG-CB-CA	6.00	122.58	114.52
2	С	369	ALC	CG-CB-CA	5.89	122.44	114.52
2	D	369	ALC	CZ-CE2-CD2	3.43	118.47	111.42
2	D	372	200	CG-CB-CA	3.31	120.90	114.13
2	D	369	ALC	CZ-CE1-CD1	2.91	117.41	111.42
2	D	369	ALC	CE1-CZ-CE2	2.88	119.74	111.19
2	С	369	ALC	CZ-CE1-CD1	2.71	117.00	111.42
2	С	369	ALC	CZ-CE2-CD2	2.29	116.13	111.42
2	С	369	ALC	CE1-CZ-CE2	2.23	117.80	111.19
2	D	369	ALC	CD1-CG-CD2	2.00	114.18	109.29

All (10) bond angle outliers are listed below:

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	С	369	ALC	CA-CB-CG-CD2
2	С	369	ALC	CA-CB-CG-CD1
2	С	372	200	N-CA-CB-CG
2	D	369	ALC	CA-CB-CG-CD2
2	D	369	ALC	CA-CB-CG-CD1
2	D	372	200	N-CA-CB-CG
2	D	372	200	OXT-C-CA-N
2	D	372	200	O-C-CA-CB
2	D	372	200	O-C-CA-N
2	D	372	200	OXT-C-CA-CB
2	D	372	200	C-CA-CB-CG
2	С	372	200	OXT-C-CA-N

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	С	372	200	1	0
2	С	369	ALC	4	0
2	D	369	ALC	1	0

### 5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.



#### 5.6 Ligand geometry (i)

There are no ligands in this entry.

#### 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,  $95^{th}$  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	$\langle RSRZ \rangle$	#RSRZ>2	$ $ OWAB $($ Å $^2)$ $ $ Q<0.
1	А	356/366~(97%)	0.30	11 (3%) 51 46	8, 29, 48, 54 0
1	В	360/366~(98%)	0.35	15 (4%) 41 35	8, 29, 50, 73 1 (0%
2	С	3/6~(50%)	0.01	0 100 100	28, 28, 31, 37 0
2	D	3/6~(50%)	-0.07	0 100 100	15, 15, 23, 25 0
All	All	722/744~(97%)	0.32	26 (3%) 46 40	8, 29, 48, 73 1 (0%

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	311	SER	3.9
1	В	120	ASP	3.6
1	В	26	THR	3.3
1	А	211	ASP	3.2
1	А	261	ASP	3.2
1	В	343	SER	2.8
1	В	163	GLU	2.8
1	А	258	ALA	2.8
1	А	212	ASN	2.7
1	В	98	LEU	2.7
1	В	366	LEU	2.6
1	В	121	ASP	2.6
1	В	8	GLU	2.5
1	В	109	SER	2.3
1	А	18	SER	2.3
1	А	118	ASN	2.3
1	В	119	LEU	2.3
1	В	18	SER	2.2
1	А	95	GLU	2.2
1	А	284	TYR	2.2
1	А	220	SER	2.2

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Mol	Chain	Res	Type	RSRZ
1	В	92	LEU	2.2
1	В	285	VAL	2.1
1	А	252	PRO	2.1
1	В	27	LEU	2.1
1	А	356	SER	2.0

#### 6.2 Non-standard residues in protein, DNA, RNA chains (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,  $95^{th}$  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	$B-factors(A^2)$	Q<0.9
2	200	D	372	13/13	0.78	0.15	25,28,43,56	0
2	ALC	С	369	11/12	0.87	0.12	26,29,32,36	0
2	200	С	372	13/13	0.89	0.12	20,26,41,44	0
2	ALC	D	369	11/12	0.95	0.08	12,14,18,21	0

#### 6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

#### 6.4 Ligands (i)

There are no ligands in this entry.

#### 6.5 Other polymers (i)

There are no such residues in this entry.

