

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

#### Oct 23, 2024 – 03:47 PM EDT

PDB ID : 1EVR

Title: The structure of the resorcinol/insulin R6 hexamer

Authors: Smith, G.D.; Ciszak, E.; Magrum, L.A.; Pangborn, W.A.; Blessing, R.H.

Deposited on : 2000-04-20

Resolution : 1.90 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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)

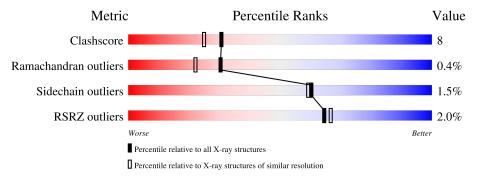
Validation Pipeline (wwPDB-VP) : 2.39

## 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.90 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	Similar resolution
Menic	(# Entries)	$(\#  ext{Entries},  ext{ resolution range}( ext{Å}))$
Clashscore	180529	8090 (1.90-1.90)
Ramachandran outliers	177936	8022 (1.90-1.90)
Sidechain outliers	177891	8022 (1.90-1.90)
RSRZ outliers	164620	7292 (1.90-1.90)

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	21	90%	5% 5%
1	С	21	95%	5%
1	Е	21	90%	10%
1	G	21	81%	19%
1	I	21	86%	14%
1	K	21	86%	14%

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Mol	Chain	Length	Quality of chain		
2	В	30	87%	10	0% •
2	D	30	93%		
2	F	30	3%	000/	
			73%	20%	7%
2	Н	30	77%	20%	•
2	J	30	77%	17%	
2	L	30	77%	20%	•



# 2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 2647 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 INSULIN.

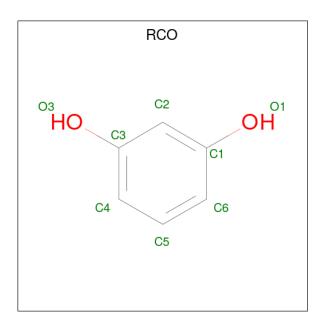
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
1	A	21	Total C N O S 156 93 25 34 4	0	0	0
1	С	21	Total C N O S 181 109 28 40 4	0	2	0
1	Е	21	Total C N O S 163 99 25 35 4	0	0	0
1	G	21	Total C N O S 163 99 25 35 4	0	0	0
1	I	21	Total C N O S 169 102 26 37 4	0	1	0
1	K	21	Total C N O S 163 99 25 35 4	0	0	0

• Molecule 2 is a protein called INSULIN.

Mol	Chain	Residues		Ato	ms			ZeroOcc	AltConf	Trace
2	В	29	Total	С	N	О	S	0	2	0
	Ъ	29	244	163	40	39	2	O	2	U
2	D	29	Total	С	N	Ο	S	0	0	0
	D	29	224	145	38	39	2	U	U	U
2	F	28	Total	С	N	Ο	S	0	0	0
	I.	20	219	142	37	38	2	0		
2	Н	29	Total	С	N	Ο	S	0	1	0
	11	23	237	156	39	40	2	O	1	0
2	J	29	Total	С	N	Ο	S	0	1	0
	J	29	239	156	39	42	2	U	1	U
2	L	29	Total	С	N	О	S	0	2	0
	L	29	247	158	45	42	2	0	2	U

• Molecule 3 is RESORCINOL (three-letter code: RCO) (formula:  $C_6H_6O_2$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	
3	A	1	Total C O	0	0	
	Λ	1	8 6 2	U	U	
3	A	1	Total C O	0	0	
	11	1	8 6 2	O	U	
3	В	1	Total C O	0	0	
	Б	1	8 6 2	O	U	
3	$\mathbf{C}$	1 Total C O	1	0	0	
	C	1	8 6 2	O	O .	
3	$_{ m E}$ 1	Total C O	0	0		
	L	1	8 6 2	· ·	O .	
3	G	1	Total C O	0	0	
	<u> </u>	1	8 6 2	· ·	O .	
3	I	1	Total C O	0	0	
	1	1	8 6 2	Ü	U U	
3	K	1	Total C O	0	0	
	IV.	ĸ	1	8 6 2		

• Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
ſ	4	В	1	Total Zn 1 1	0	0
	4	D	1	Total Zn 1 1	0	0

• Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	D	1	Total Cl 1 1	0	0
5	J	1	Total Cl 1 1	0	0

 $\bullet$  Molecule 6 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	J	1	Total Na 1 1	0	0

## • Molecule 7 is water.

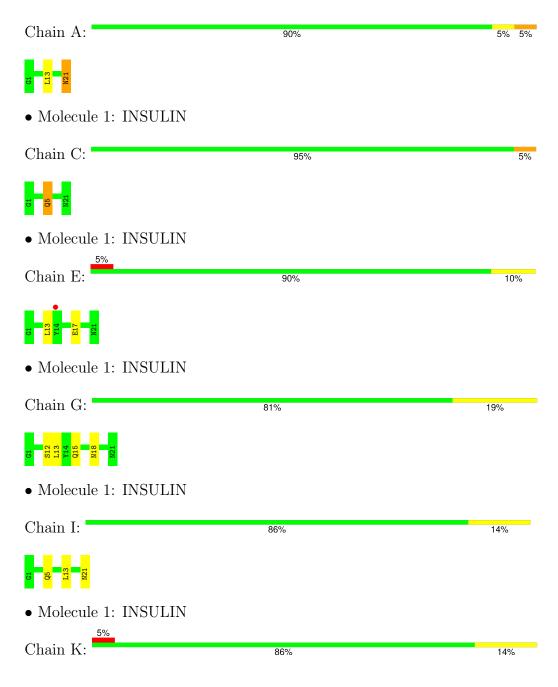
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	10	Total O	0	1
1	Λ	10	11 11	0	1
7	В	13	Total O	0	0
•	D	10	13 13	0	0
7	С	8	Total O	0	0
•	C	O	8 8		Ü
7	D	17	Total O	0	4
'	D	11	20 20		-1
7	E	9	Total O	0	0
•	12	9	9 9		Ü
7	F	19	Total O	0	2
•	<u> </u>	10	23 23		_
7	G	13	Total O	0	1
		10	14 14	0	1
7	Н	11	Total O	0	1
•		11	12 12	Ŭ	
7	I	13	Total O	0	0
•	-	13	13 13		0
7	J	17	Total O	0	1
•		11	18 18		1
7	K	12	Total O	0	0
			12 12		
7	L	17	Total O	0	3
	L	11	20 20		Ú



# 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: INSULIN









# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	61.35Å 61.93Å 47.80Å	Donogitor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $110.61^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	44.75 - 1.90	Depositor
Resolution (A)	44.75 - 1.90	EDS
% Data completeness	97.0 (44.75-1.90)	Depositor
(in resolution range)	97.1 (44.75-1.90)	EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.65 (at 1.89Å)	Xtriage
Refinement program	CNS 1.0	Depositor
D.D.	0.179 , 0.218	Depositor
$R, R_{free}$	0.181 , (Not available)	DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	34.0	Xtriage
Anisotropy	0.276	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.35, 63.2	EDS
L-test for twinning <sup>2</sup>	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.023 for -h-l,-k,l	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	2647	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.53% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>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.



<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: ZN, CL, RCO, NA

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
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	A	0.43	0/156	0.64	0/209
1	С	0.52	0/182	0.69	0/244
1	Е	0.55	0/164	0.66	0/220
1	G	0.47	0/164	0.60	0/220
1	I	0.52	0/170	0.69	0/228
1	K	0.46	0/164	0.67	0/220
2	В	0.55	0/252	0.57	0/342
2	D	0.64	0/230	0.60	0/312
2	F	0.55	0/225	0.61	0/305
2	Н	0.51	0/244	0.59	0/331
2	J	0.56	0/246	0.62	0/333
2	L	0.58	0/253	0.60	0/341
All	All	0.54	0/2450	0.62	0/3305

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	156	0	142	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	С	181	0	162	3	0
1	Ε	163	0	149	1	0
1	G	163	0	149	4	0
1	I	169	0	153	3	0
1	K	163	0	149	3	0
2	В	244	0	226	4	0
2	D	224	0	207	1	0
2	F	219	0	202	8	0
2	Н	237	0	222	8	0
2	J	239	0	219	7	0
2	L	247	0	235	7	0
3	A	16	0	12	2	0
3	В	8	0	6	1	0
3	С	8	0	6	0	0
3	E	8	0	5	0	0
3	G	8	0	5	0	0
3	I	8	0	5	0	0
3	K	8	0	6	0	0
4	В	1	0	0	0	0
4	D	1	0	0	0	0
5	D	1	0	0	0	0
5	J	1	0	0	0	0
6	J	1	0	0	0	0
7	A	11	0	0	0	0
7	В	13	0	0	0	0
7	С	8	0	0	0	0
7	D	20	0	0	0	0
7	E	9	0	0	0	0
7	F	23	0	0	3	0
7	G	14	0	0	1	0
7	Н	12	0	0	0	0
7	I	13	0	0	1	0
7	J	18	0	0	0	0
7	K	12	0	0	0	0
7	L	20	0	0	2	0
All	All	2647	0	2260	39	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 8.

The worst 5 of 39 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$egin{aligned}  ext{Clash} \  ext{overlap } ( ext{Å}) \end{aligned}$
2:F:25:PHE:HD1	2:H:25:PHE:CD2	1.44	1.10
2:F:25:PHE:CD1	2:H:25:PHE:CD2	2.16	1.06
2:F:13:GLU:HG3	7:F:34:HOH:O	1.78	0.83
2:F:25:PHE:HD1	2:H:25:PHE:CG	1.96	0.76
2:F:25:PHE:CD1	2:H:25:PHE:CG	2.51	0.76

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	A	19/21 (90%)	19 (100%)	0	0	100	100
1	С	21/21 (100%)	21 (100%)	0	0	100	100
1	E	19/21 (90%)	19 (100%)	0	0	100	100
1	G	19/21 (90%)	19 (100%)	0	0	100	100
1	I	20/21 (95%)	20 (100%)	0	0	100	100
1	K	19/21 (90%)	19 (100%)	0	0	100	100
2	В	29/30 (97%)	29 (100%)	0	0	100	100
2	D	27/30 (90%)	27 (100%)	0	0	100	100
2	F	26/30 (87%)	25 (96%)	1 (4%)	0	100	100
2	Н	28/30 (93%)	27 (96%)	1 (4%)	0	100	100
2	J	28/30 (93%)	27 (96%)	0	1 (4%)	3	0
2	L	29/30 (97%)	29 (100%)	0	0	100	100
All	All	284/306 (93%)	281 (99%)	2 (1%)	1 (0%)	30	22

All (1) Ramachandran outliers are listed below:



Mol	Chain	$\operatorname{Res}$	Type
2	J	2	VAL

#### 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	Perce	ntiles
1	A	19/20~(95%)	18 (95%)	1 (5%)	19	11
1	С	22/20 (110%)	20 (91%)	2 (9%)	7	3
1	E	20/20 (100%)	20 (100%)	0	100	100
1	G	20/20 (100%)	20 (100%)	0	100	100
1	I	21/20 (105%)	21 (100%)	0	100	100
1	K	20/20 (100%)	20 (100%)	0	100	100
2	В	25/26~(96%)	25 (100%)	0	100	100
2	D	23/26 (88%)	23 (100%)	0	100	100
2	F	23/26 (88%)	22 (96%)	1 (4%)	25	17
2	Н	25/26~(96%)	25 (100%)	0	100	100
2	J	25/26~(96%)	24 (96%)	1 (4%)	27	19
2	L	26/26 (100%)	26 (100%)	0	100	100
All	All	269/276 (98%)	264 (98%)	5 (2%)	60	49

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	ASN
1	С	5[A]	GLN
1	С	5[B]	GLN
2	F	21	GLU
2	J	21	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:



Mol	Chain	Res	Type
1	I	5	GLN
1	I	21	ASN
2	L	4	GLN
2	J	4	GLN
1	Е	21	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 oligosaccharides in this entry.

## 5.6 Ligand geometry (i)

Of 13 ligands modelled in this entry, 5 are monoatomic - leaving 8 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	Mol Type Chain		nain Res Link		В	Bond lengths			Bond angles		
IVIOI	Туре	Chain	rtes	LIIIK	ites   Lilik	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
3	RCO	Е	308	-	8,8,8	0.52	0	10,10,10	0.25	0	
3	RCO	I	310	-	8,8,8	0.34	0	10,10,10	0.36	0	
3	RCO	A	306	-	8,8,8	0.98	0	10,10,10	0.47	0	
3	RCO	K	311	-	8,8,8	0.58	0	10,10,10	0.27	0	
3	RCO	С	307	-	8,8,8	0.71	0	10,10,10	0.31	0	
3	RCO	A	312	-	8,8,8	0.45	0	10,10,10	0.31	0	
3	RCO	G	309	-	8,8,8	0.97	0	10,10,10	0.39	0	
3	RCO	В	313	-	8,8,8	0.44	0	10,10,10	0.29	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
3	RCO	Е	308	-	-	-	0/1/1/1
3	RCO	I	310	-	-	-	0/1/1/1
3	RCO	A	306	-	-	-	0/1/1/1
3	RCO	K	311	-	-	-	0/1/1/1
3	RCO	С	307	-	-	-	0/1/1/1
3	RCO	A	312	-	-	-	0/1/1/1
3	RCO	G	309	-	-	-	0/1/1/1
3	RCO	В	313	-	-	-	0/1/1/1

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.

2 monomers are involved in 3 short contacts:

$\mathbf{Mol}$	Chain	Res	Type	Clashes	Symm-Clashes
3	A	312	RCO	2	0
3	В	313	RCO	1	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,  $95^{th}$  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	<rsrz></rsrz>	$\#\mathrm{RSRZ}{>}2$	$\mathrm{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	21/21 (100%)	0.42	0 100 100	34, 46, 55, 66	0
1	С	21/21 (100%)	-0.07	0 100 100	22, 33, 42, 52	2 (9%)
1	E	21/21 (100%)	0.42	1 (4%) 36 37	35, 43, 54, 60	0
1	G	21/21 (100%)	0.37	0 100 100	34, 43, 57, 60	0
1	I	21/21 (100%)	0.17	0 100 100	17, 37, 49, 53	1 (4%)
1	K	21/21 (100%)	0.41	1 (4%) 36 37	36, 44, 54, 61	0
2	В	29/30 (96%)	0.10	1 (3%) 48 50	12, 29, 61, 75	2 (6%)
2	D	29/30 (96%)	0.04	0 100 100	23, 31, 57, 69	0
2	F	28/30 (93%)	0.13	1 (3%) 46 48	23, 34, 55, 71	1 (3%)
2	Н	29/30 (96%)	0.14	1 (3%) 48 50	14, 34, 59, 77	2 (6%)
2	J	29/30 (96%)	0.11	1 (3%) 48 50	16, 31, 55, 68	1 (3%)
2	L	29/30 (96%)	0.19	0 100 100	18, 33, 58, 75	2 (6%)
All	All	299/306 (97%)	0.19	6 (2%) 64 67	12, 38, 59, 77	11 (3%)

The worst 5 of 6 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	F	29	LYS	3.0
1	Е	14	TYR	2.8
2	В	25[A]	PHE	2.7
2	J	29	LYS	2.6
2	Н	25	PHE	2.5

## 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,  $95^{th}$  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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	RCO	A	312	8/8	0.85	0.13	69,69,70,71	0
3	RCO	В	313	8/8	0.86	0.14	61,62,64,65	0
6	NA	J	305	1/1	0.91	0.08	51,51,51,51	0
3	RCO	Е	308	8/8	0.95	0.07	26,30,33,35	0
3	RCO	A	306	8/8	0.97	0.05	29,31,34,34	0
3	RCO	G	309	8/8	0.97	0.05	25,29,31,32	0
3	RCO	I	310	8/8	0.97	0.05	25,26,27,28	0
3	RCO	K	311	8/8	0.97	0.05	28,31,33,33	0
3	RCO	С	307	8/8	0.97	0.04	25,27,29,30	0
4	ZN	D	302	1/1	1.00	0.01	25,25,25,25	0
5	CL	D	304	1/1	1.00	0.03	25,25,25,25	0
5	CL	J	303	1/1	1.00	0.05	24,24,24,24	0
4	ZN	В	301	1/1	1.00	0.01	24,24,24,24	0

## 6.5 Other polymers (i)

There are no such residues in this entry.

