

Full wwPDB X-ray Structure Validation Report (i)

Oct 7, 2023 – 07:08 PM EDT

PDB ID	:	6DPD
Title	:	Crystal Structure of Bacillus Halodurans Ribonuclease H1 in Complex with
		an RNA/DNA Hybrid: Reaction in 16 mM Mn2+ and 200 mM K+ for 40 s
		at 21 C
Authors	:	Samara, N.L.; Yang, W.
Deposited on	:	2018-06-09
Resolution	:	1.46 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:

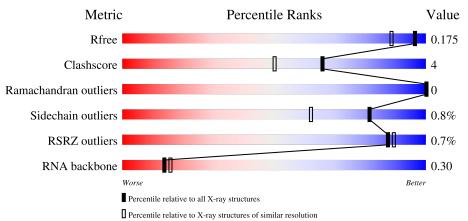
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

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 1.46 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R _{free}	130704	1156 (1.46-1.46)
Clashscore	141614	1202 (1.46-1.46)
Ramachandran outliers	138981	1178 (1.46-1.46)
Sidechain outliers	138945	1178 (1.46-1.46)
RSRZ outliers	127900	1139 (1.46-1.46)
RNA backbone	3102	1000 (2.34-0.62)

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	А	136	93%	7%				
2	В	4	75%	25%				
3	b	2	50% 50'	%				
4	С	6	83%	17%				



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
5	MN	А	203[B]	-	-	-	Х
7	IOD	А	209	-	-	Х	-
9	EDO	А	215	-	-	Х	-



6DPD

2 Entry composition (i)

There are 11 unique types of molecules in this entry. The entry contains 2386 atoms, of which 770 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 Ribonuclease H.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	А	136	Total 1900	С 724	Н 770	N 188	0 216	${ m S} { m 2}$	0	3	0

• Molecule 2 is a RNA chain called RNA (5'-R(*AP*CP*AP*U)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	В	4	Total 80	C 38		0 24	Р 3	0	0	0

• Molecule 3 is a RNA chain called RNA (5'-R(P*CP*G)-3').

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
3	h	9	Total	С	Ν	Ο	Р	0	0	0
0	D	Z	43	19	8	14	2	0		

• Molecule 4 is a DNA chain called DNA (5'-D(*CP*GP*AP*TP*GP*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	С	6	Total 121	$\begin{array}{c} \mathrm{C} \\ 59 \end{array}$	N 22	O 35	Р 5	0	0	0

• Molecule 5 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	5	Total Mn 5 5	0	1
5	В	1	Total Mn 1 1	0	0

• Molecule 6 is POTASSIUM ION (three-letter code: K) (formula: K).

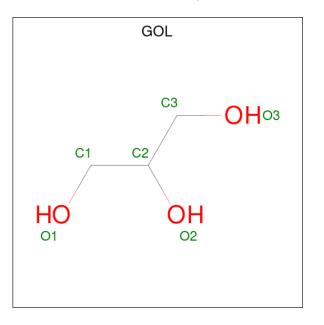


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	1	Total K 1 1	0	0

• Molecule 7 is IODIDE ION (three-letter code: IOD) (formula: I).

\mathbf{N}	ſol	Chain	Residues	Atoms	ZeroOcc	AltConf
	7	А	4	Total I 4 4	0	0
	7	В	1	Total I 1 1	0	0

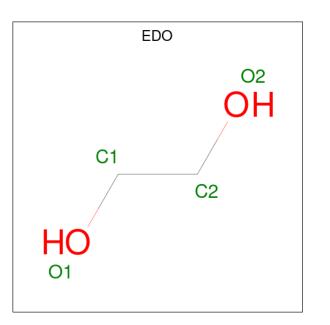
• Molecule 8 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0

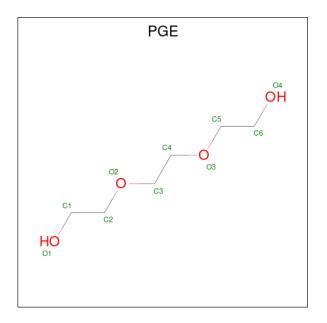
• Molecule 9 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
9	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
9	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
9	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

• Molecule 10 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	А	1	Total 10	$\begin{array}{c} \mathrm{C} \\ \mathrm{6} \end{array}$	0 4	0	0

• Molecule 11 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	А	155	Total O 155 155	0	0
11	В	14	Total O 14 14	0	0
11	С	17	Total O 17 17	0	1



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:	93%		7%
E61 164 164 766 766 7684 1104 11148 11148 11148 11148 1131 1148 1131 1148 1131 1148 1131 1148 1131 1148 1134 1134			
• Molecule 2: RNA $(5'-R(*AP*O$	CP*AP*U)-3')		
Chain B:	75%	25%	
41			
• Molecule 3: RNA $(5'-R(P*CP))$	*G)-3')		
Chain b: 50%		50%	
<mark>ម</mark> ខ			
• Molecule 4: DNA $(5'-D(*CP*C))$	GP*AP*TP*GP*T)-3'))	
Chain C:	83%	17%)
11 16 16 16 16 16 16 16 16 16 16 16 16 1			

• Molecule 1: Ribonuclease H



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	81.32Å 37.99Å 61.32Å	Depositor
a, b, c, α , β , γ	90.00° 96.32° 90.00°	Depositor
Resolution (Å)	19.84 - 1.46	Depositor
Resolution (A)	19.84 - 1.46	EDS
% Data completeness	98.9 (19.84-1.46)	Depositor
(in resolution range)	98.9(19.84-1.46)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.16 (at 1.45 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
D D.	0.151 , 0.173	Depositor
R, R_{free}	0.153 , 0.175	DCC
R_{free} test set	1642 reflections (5.05%)	wwPDB-VP
Wilson B-factor $(Å^2)$	19.5	Xtriage
Anisotropy	0.320	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.37, 54.4	EDS
L-test for twinning ²	$ \langle L \rangle = 0.50, \langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	2386	wwPDB-VP
Average B, all atoms $(Å^2)$	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 9.03% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities 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: GOL, EDO, MN, K, PGE, IOD

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
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.35	0/1165	0.57	0/1575
2	В	0.70	0/89	1.29	0/136
3	b	1.56	1/47~(2.1%)	0.94	0/69
4	С	0.94	0/135	1.10	0/207
All	All	0.54	1/1436~(0.1%)	0.73	0/1987

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	b	5	С	OP3-P	-9.49	1.49	1.61

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	А	1130	770	1127	9	0
2	В	80	0	45	0	0
3	b	43	0	23	0	0
4	С	121	0	70	1	0
5	А	5	0	0	0	0
5	В	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	А	1	0	0	0	0
7	А	4	0	0	2	0
7	В	1	0	0	0	0
8	А	18	0	24	1	0
9	А	16	0	24	5	0
10	А	10	0	14	1	0
11	А	155	0	0	1	0
11	В	14	0	0	0	0
11	C	17	0	0	0	0
All	All	1616	770	1327	11	0

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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 (11) 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:148:THR:HG21	9:A:215:EDO:H11	1.43	1.00
1:A:148:THR:CG2	9:A:215:EDO:H11	2.14	0.77
1:A:150:VAL:HG12	10:A:218:PGE:H5	1.81	0.63
1:A:151:ARG:HB2	9:A:217:EDO:H22	1.91	0.51
1:A:84:LYS:HE3	1:A:191:ALA:O	2.15	0.46
9:A:215:EDO:H22	4:C:4:DT:H2'	2.00	0.43
1:A:148:THR:HG21	9:A:215:EDO:C1	2.31	0.43
1:A:64:ILE:HD13	7:A:209:IOD:I	2.90	0.42
7:A:209:IOD:I	11:A:454:HOH:O	2.92	0.41
1:A:76:GLY:HA2	8:A:211:GOL:H12	2.03	0.41
1:A:104:THR:OG1	1:A:107[A]:MET:HG3	2.20	0.41

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	Percentile	es
1	А	137/136~(101%)	137 (100%)	0	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	А	123/120~(102%)	122~(99%)	1 (1%)	81 62	

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	154	GLU

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

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	В	2/4~(50%)	1 (50%)	0
3	b	0/2	-	-
All	All	2/6~(33%)	1 (50%)	0

All (1) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
2	В	4	U

There are no RNA pucker outliers to report.



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)

Of 20 ligands modelled in this entry, 12 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	Turne	Chain	Res	Link	B	Bond lengths			Bond angles		
10101	Type	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
9	EDO	А	214	-	3,3,3	0.49	0	$2,\!2,\!2$	0.31	0	
9	EDO	А	215	-	3,3,3	0.50	0	$2,\!2,\!2$	0.20	0	
8	GOL	А	213	-	$5,\!5,\!5$	0.42	0	$5,\!5,\!5$	0.39	0	
8	GOL	А	211	-	$5,\!5,\!5$	0.28	0	$5,\!5,\!5$	0.42	0	
9	EDO	А	217	-	3,3,3	0.53	0	$2,\!2,\!2$	0.17	0	
8	GOL	А	212	-	$5,\!5,\!5$	0.35	0	$5,\!5,\!5$	0.34	0	
9	EDO	А	216	-	3,3,3	0.46	0	$2,\!2,\!2$	0.39	0	
10	PGE	А	218	-	9,9,9	0.30	0	8,8,8	0.52	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
9	EDO	А	214	-	-	1/1/1/1	-
9	EDO	А	215	-	-	0/1/1/1	-
8	GOL	А	213	-	-	2/4/4/4	-
8	GOL	А	211	-	-	4/4/4/4	-
9	EDO	А	217	-	-	1/1/1/1	-
8	GOL	А	212	-	_	2/4/4/4	_

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Mol	Type	Chain	\mathbf{Res}	Link	Chirals	Torsions	Rings
9	EDO	А	216	-	-	1/1/1/1	-
10	PGE	А	218	-	-	7/7/7/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	А	211	GOL	O1-C1-C2-O2
8	А	211	GOL	O1-C1-C2-C3
8	А	212	GOL	O1-C1-C2-O2
8	А	212	GOL	O1-C1-C2-C3
8	А	213	GOL	O1-C1-C2-C3
10	А	218	PGE	C4-C3-O2-C2
10	А	218	PGE	O1-C1-C2-O2
10	А	218	PGE	O2-C3-C4-O3
8	А	211	GOL	C1-C2-C3-O3
8	А	211	GOL	O2-C2-C3-O3
9	А	216	EDO	O1-C1-C2-O2
8	А	213	GOL	O1-C1-C2-O2
10	А	218	PGE	O3-C5-C6-O4
9	А	217	EDO	O1-C1-C2-O2
10	А	218	PGE	C1-C2-O2-C3
10	А	218	PGE	C3-C4-O3-C5
10	А	218	PGE	C6-C5-O3-C4
9	А	214	EDO	O1-C1-C2-O2

There are no ring outliers.

4 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	А	215	EDO	4	0
8	А	211	GOL	1	0
9	А	217	EDO	1	0
10	А	218	PGE	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	$\langle RSRZ \rangle$	# RSRZ > 2	$OWAB(A^2)$	Q<0.9
1	А	136/136~(100%)	-0.40	1 (0%) 87 89	16, 24, 46, 74	2 (1%)
2	В	4/4 (100%)	-0.34	0 100 100	24, 27, 40, 46	0
3	b	2/2~(100%)	-0.98	0 100 100	23, 23, 23, 27	0
4	С	6/6~(100%)	-0.54	0 100 100	24, 30, 37, 38	0
All	All	148/148 (100%)	-0.41	1 (0%) 87 89	16, 25, 46, 74	2 (1%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	61	GLU	2.7

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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
5	MN	А	203[B]	1/1	0.52	0.69	32,32,32,32	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	$Q{<}0.9$
9	EDO	A	217	4/4	0.75	0.17	$33,\!53,\!62,\!71$	0
9	EDO	А	214	4/4	0.77	0.11	$51,\!52,\!54,\!56$	0
9	EDO	А	216	4/4	0.79	0.14	49,55,56,58	0
10	PGE	А	218	10/10	0.80	0.22	$35,\!69,\!97,\!99$	0
8	GOL	А	211	6/6	0.81	0.15	$57,\!58,\!58,\!59$	0
8	GOL	А	212	6/6	0.85	0.17	66, 66, 68, 71	0
8	GOL	А	213	6/6	0.85	0.16	47,56,58,60	0
9	EDO	А	215	4/4	0.92	0.19	$26,\!33,\!36,\!65$	0
5	MN	А	205	1/1	0.94	0.12	$35,\!35,\!35,\!35$	1
5	MN	В	101	1/1	0.96	0.14	50,50,50,50	1
5	MN	А	204	1/1	0.97	0.05	27,27,27,27	1
6	Κ	А	206	1/1	0.97	0.07	33,33,33,33	1
7	IOD	А	210	1/1	0.98	0.04	50,50,50,50	1
7	IOD	В	102	1/1	0.98	0.05	36,36,36,36	1
5	MN	А	202	1/1	1.00	0.06	$19,\!19,\!19,\!19$	0
5	MN	А	201	1/1	1.00	0.03	20,20,20,20	0
7	IOD	А	207	1/1	1.00	0.04	19,19,19,19	1
7	IOD	А	208	1/1	1.00	0.01	32,32,32,32	1
7	IOD	А	209	1/1	1.00	0.08	30,30,30,30	1

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6.5 Other polymers (i)

There are no such residues in this entry.

