



wwPDB EM Validation Summary Report ⓘ

Apr 21, 2023 – 07:36 PM JST

PDB ID : 7Y7A
EMDB ID : EMD-33658
Title : In situ double-PBS-PSII-PSI-LHCs megacomplex from *Porphyridium purpureum*.
Authors : You, X.; Zhang, X.; Cheng, J.; Xiao, Y.N.; Sun, S.; Sui, S.F.
Deposited on : 2022-06-22
Resolution : 4.30 Å(reported)

This is a wwPDB EM 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/EMValidationReportHelp>

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:

EMDB validation analysis : 0.0.1.dev50
MolProbity : **FAILED**
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.32.2

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.30 Å.

There are no overall percentile quality scores available for this entry.

MolProbity failed to run properly - the sequence quality summary graphics cannot be shown.

2 Entry composition [i](#)

There are 104 unique types of molecules in this entry. The entry contains 2499256 atoms, of which 4064 are hydrogens and 0 are deuteriums.

In the tables below, 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 R-phycoerythrin gamma chain, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A1	257	1987	1226	368	378	15	0	0
1	A2	256	1979	1220	367	377	15	0	0
1	A4	257	1987	1226	368	378	15	0	0
1	Y5	237	1832	1132	339	346	15	0	0
1	A8	257	1987	1226	368	378	15	0	0
1	YD	237	1832	1132	339	346	15	0	0
1	AF	256	1979	1220	367	377	15	0	0
1	AI	257	1987	1226	368	378	15	0	0
1	AK	257	1987	1226	368	378	15	0	0
1	AM	256	1979	1220	367	377	15	0	0
1	AP	257	1987	1226	368	378	15	0	0
1	AR	257	1987	1226	368	378	15	0	0
1	AS	257	1987	1226	368	378	15	0	0
1	Ac	256	1979	1220	367	377	15	0	0
1	Ae	257	1987	1226	368	378	15	0	0
1	Yg	237	1832	1132	339	346	15	0	0
1	Yi	237	1832	1132	339	346	15	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Aj	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		
1	Al	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		
1	An	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		

- Molecule 2 is a protein called Phycobilisome rod-core linker polypeptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B1	231	Total	C	N	O	S	0	0
			1897	1212	332	349	4		
2	B4	230	Total	C	N	O	S	0	0
			1861	1188	321	348	4		
2	B8	231	Total	C	N	O	S	0	0
			1897	1212	332	349	4		
2	BI	227	Total	C	N	O	S	0	0
			1874	1197	328	345	4		
2	BK	231	Total	C	N	O	S	0	0
			1895	1210	332	349	4		
2	BP	227	Total	C	N	O	S	0	0
			1874	1197	328	345	4		
2	BR	231	Total	C	N	O	S	0	0
			1897	1212	332	349	4		
2	BS	227	Total	C	N	O	S	0	0
			1874	1197	328	345	4		
2	Be	230	Total	C	N	O	S	0	0
			1857	1183	322	348	4		
2	Bj	230	Total	C	N	O	S	0	0
			1863	1186	325	348	4		
2	Bl	227	Total	C	N	O	S	0	0
			1874	1197	328	345	4		
2	Bn	230	Total	C	N	O	S	0	0
			1873	1195	328	346	4		

- Molecule 3 is a protein called C-phycoyanin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C1	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
3	E1	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	G1	162	1228	773	209	240	6	0	0
3	I1	162	1228	773	209	240	6	0	0
3	K1	162	1228	773	209	240	6	0	0
3	M1	162	1228	773	209	240	6	0	0
3	C4	162	1228	773	209	240	6	0	0
3	E4	162	1228	773	209	240	6	0	0
3	G4	162	1228	773	209	240	6	0	0
3	I4	162	1228	773	209	240	6	0	0
3	K4	162	1224	771	208	239	6	0	0
3	M4	162	1228	773	209	240	6	0	0
3	C8	162	1228	773	209	240	6	0	0
3	E8	162	1228	773	209	240	6	0	0
3	G8	162	1228	773	209	240	6	0	0
3	I8	162	1228	773	209	240	6	0	0
3	K8	162	1228	773	209	240	6	0	0
3	M8	162	1228	773	209	240	6	0	0
3	CI	162	1228	773	209	240	6	0	0
3	EI	162	1228	773	209	240	6	0	0
3	GI	162	1224	771	208	239	6	0	0
3	II	162	1228	773	209	240	6	0	0
3	KI	162	1228	773	209	240	6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	MI	162	1228	773	209	240	6	0	0
3	CK	162	1228	773	209	240	6	0	0
3	EK	162	1228	773	209	240	6	0	0
3	GK	162	1228	773	209	240	6	0	0
3	IK	162	1228	773	209	240	6	0	0
3	KK	162	1228	773	209	240	6	0	0
3	MK	162	1228	773	209	240	6	0	0
3	CP	162	1228	773	209	240	6	0	0
3	EP	162	1228	773	209	240	6	0	0
3	GP	162	1224	771	208	239	6	0	0
3	IP	162	1228	773	209	240	6	0	0
3	KP	162	1228	773	209	240	6	0	0
3	MP	162	1228	773	209	240	6	0	0
3	CR	162	1228	773	209	240	6	0	0
3	ER	162	1228	773	209	240	6	0	0
3	GR	162	1228	773	209	240	6	0	0
3	IR	162	1228	773	209	240	6	0	0
3	KR	162	1228	773	209	240	6	0	0
3	MR	162	1228	773	209	240	6	0	0
3	CS	162	1218	768	205	239	6	0	0
3	ES	162	1228	773	209	240	6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	GS	162	1228	773	209	240	6	0	0
3	IS	162	1228	773	209	240	6	0	0
3	KS	162	1228	773	209	240	6	0	0
3	MS	162	1228	773	209	240	6	0	0
3	Ce	162	1228	773	209	240	6	0	0
3	Ee	162	1228	773	209	240	6	0	0
3	Ge	162	1228	773	209	240	6	0	0
3	Ie	162	1228	773	209	240	6	0	0
3	Ke	162	1228	773	209	240	6	0	0
3	Me	162	1228	773	209	240	6	0	0
3	Cj	162	1228	773	209	240	6	0	0
3	Ej	162	1228	773	209	240	6	0	0
3	Gj	162	1228	773	209	240	6	0	0
3	Ij	162	1225	772	208	239	6	0	0
3	Kj	162	1228	773	209	240	6	0	0
3	Mj	162	1228	773	209	240	6	0	0
3	Cl	162	1218	768	205	239	6	0	0
3	El	162	1228	773	209	240	6	0	0
3	Gl	162	1228	773	209	240	6	0	0
3	Il	162	1228	773	209	240	6	0	0
3	Kl	162	1228	773	209	240	6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Ml	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
3	Cn	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
3	En	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
3	Gn	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
3	In	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
3	Kn	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
3	Mn	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		

- Molecule 4 is a protein called C-phycoyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	F1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	H1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	J1	172	Total	C	N	O	S	0	0
			1260	780	218	253	9		
4	L1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	N1	172	Total	C	N	O	S	0	0
			1268	784	223	252	9		
4	D4	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	F4	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	H4	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	J4	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	L4	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	N4	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D8	172	1272	786	224	253	9	0	0
4	F8	172	1272	786	224	253	9	0	0
4	H8	172	1272	786	224	253	9	0	0
4	J8	172	1266	783	221	253	9	0	0
4	L8	172	1272	786	224	253	9	0	0
4	N8	172	1268	784	223	252	9	0	0
4	DI	172	1272	786	224	253	9	0	0
4	FI	172	1272	786	224	253	9	0	0
4	HI	172	1259	780	221	249	9	0	0
4	JI	172	1272	786	224	253	9	0	0
4	LI	172	1272	786	224	253	9	0	0
4	NI	172	1272	786	224	253	9	0	0
4	DK	172	1272	786	224	253	9	0	0
4	FK	172	1272	786	224	253	9	0	0
4	HK	172	1272	786	224	253	9	0	0
4	JK	172	1260	780	218	253	9	0	0
4	LK	172	1272	786	224	253	9	0	0
4	NK	172	1272	786	224	253	9	0	0
4	DP	172	1272	786	224	253	9	0	0
4	FP	172	1272	786	224	253	9	0	0
4	HP	172	1265	783	224	249	9	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	JP	172	1268	784	223	252	9	0	0
4	LP	172	1272	786	224	253	9	0	0
4	NP	172	1272	786	224	253	9	0	0
4	DR	172	1272	786	224	253	9	0	0
4	FR	172	1272	786	224	253	9	0	0
4	HR	172	1272	786	224	253	9	0	0
4	JR	172	1260	780	218	253	9	0	0
4	LR	172	1272	786	224	253	9	0	0
4	NR	172	1272	786	224	253	9	0	0
4	DS	172	1272	786	224	253	9	0	0
4	FS	172	1272	786	224	253	9	0	0
4	HS	172	1265	783	224	249	9	0	0
4	JS	172	1264	782	223	250	9	0	0
4	LS	172	1272	786	224	253	9	0	0
4	NS	172	1272	786	224	253	9	0	0
4	De	172	1272	786	224	253	9	0	0
4	Fe	172	1272	786	224	253	9	0	0
4	He	172	1272	786	224	253	9	0	0
4	Je	172	1272	786	224	253	9	0	0
4	Le	172	1272	786	224	253	9	0	0
4	Ne	172	1272	786	224	253	9	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Dj	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Fj	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Hj	172	Total	C	N	O	S	0	0
			1266	783	221	253	9		
4	Jj	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Lj	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Nj	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Dl	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Fl	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Hl	172	Total	C	N	O	S	0	0
			1265	783	224	249	9		
4	Jl	172	Total	C	N	O	S	0	0
			1268	784	223	252	9		
4	Ll	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Nl	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Dn	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Fn	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Hn	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Jn	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Ln	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
4	Nn	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		

- Molecule 5 is a protein called Phycoerythrin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	O1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Q1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	S1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	U1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	W1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Z1	164	Total 1244	C 776	N 216	O 245	S 7	0	0
5	b1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	d1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	f1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	h1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	j1	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	l1	164	Total 1246	C 777	N 219	O 243	S 7	0	0
5	B2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	D2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	F2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	H2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	J2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	L2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	N2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	P2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	R2	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	T2	164	Total 1250	C 779	N 219	O 245	S 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	V2	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	X2	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	C3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	E3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	G3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	I3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	K3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	M3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	O3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Q3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	S3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	U3	164	Total	C	N	O	S	0	0
			1246	776	218	245	7		
5	W3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Y3	164	Total	C	N	O	S	0	0
			1242	774	218	243	7		
5	a3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	d3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	f3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	h3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	j3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	l3	164	Total	C	N	O	S	0	0
			1242	774	217	244	7		
5	O4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Q4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	S4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	U4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	W4	164	Total	C	N	O	S	0	0
			1240	773	215	245	7		
5	Z4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	b4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	d4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	f4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	h4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	j4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	l4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	A5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	C5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	E5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	G5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	I5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	K5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	M5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	O5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Q5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	S5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	U5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	W5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	A6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	C6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	E6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	G6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	I6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	K6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	M6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	O6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Q6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	S6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	U6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	W6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Y6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	a6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	c6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	e6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	g6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	i6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	k6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	m6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	o6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	q6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	s6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	u6	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	O8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Q8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	S8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	U8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	W8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Z8	164	Total	C	N	O	S	0	0
			1244	776	216	245	7		
5	b8	164	Total	C	N	O	S	0	0
			1247	778	219	243	7		
5	d8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	f8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	h8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	j8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	l8	164	Total	C	N	O	S	0	0
			1246	777	219	243	7		
5	JA	164	Total	C	N	O	S	0	0
			1246	777	219	243	7		
5	TA	164	Total	C	N	O	S	0	0
			1246	777	219	243	7		
5	CC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	EC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	GC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	IC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	KC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	MC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UC	164	Total	C	N	O	S	0	0
			1244	776	216	245	7		
5	WC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	YC	164	Total	C	N	O	S	0	0
			1246	776	218	245	7		
5	aC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	lC	164	Total	C	N	O	S	0	0
			1246	776	218	245	7		
5	AD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	CD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ED	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	GD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ID	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	KD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	MD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OD	164	Total	C	N	O	S	0	0
			1247	778	218	244	7		
5	QD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	WD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	BF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	DF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	FF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	HF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	JF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	LF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	NF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	PF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	RF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	TF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	VF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	XF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	pG	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	rG	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	tG	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	vG	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	xG	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	zG	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	AH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	CH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	EH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	GH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	IH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	KH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	NH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	PH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	RH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	TH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	VH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	XH	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	WI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	ZI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	bI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jI	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	II	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	AJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	CJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	EJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	GJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	IJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	KJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	NJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	PJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	RJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	TJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	VJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	XJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	SK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	WK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ZK	164	Total	C	N	O	S	0	0
			1244	776	216	245	7		
5	bK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	lK	164	Total	C	N	O	S	0	0
			1247	778	218	244	7		
5	AL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	CL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	EL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	GL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	IL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	KL	164	Total	C	N	O	S	0	0
			1246	777	219	243	7		
5	ML	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	WL	164	Total	C	N	O	S	0	0
			1246	777	219	243	7		
5	BM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	DM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	FM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	HM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	JM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	LM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	NM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	PM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	RM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	TM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	VM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	XM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	zN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	pN	164	Total	C	N	O	S	0	0
			1246	776	218	245	7		
5	rN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	tN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	vN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	xN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	SP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	WP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ZP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	bP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	lP	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	AQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	CQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	EQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	GQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	IQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	KQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	MQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	WQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	YQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	aQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	cQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	eQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	gQ	164	Total	C	N	O	S	0	0
			1246	776	218	245	7		
5	iQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	kQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	mQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	oQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	qQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	sQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	uQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	WR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ZR	164	Total	C	N	O	S	0	0
			1244	776	216	245	7		
5	bR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	fR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	lR	164	Total	C	N	O	S	0	0
			1247	778	218	244	7		
5	OS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	US	164	Total	C	N	O	S	0	0
			1247	778	219	243	7		
5	WS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ZS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	bS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	lS	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	AT	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	CT	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ET	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	GT	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	IT	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	KT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	MT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	OT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	QT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	ST	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	UT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	WT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	YT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	aT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	cT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	eT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	gT	164	Total 1246	C 776	N 218	O 245	S 7	0	0
5	iT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	kT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	mT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	oT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	qT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	sT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	uT	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	AU	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	CU	164	Total 1250	C 779	N 219	O 245	S 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	EU	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	GU	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	IU	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	KU	164	Total	C	N	O	S	0	0
			1246	777	219	243	7		
5	MU	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OU	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QU	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SU	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UU	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	WU	164	Total	C	N	O	S	0	0
			1246	777	219	243	7		
5	CV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	EV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	GV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	IV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	KV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	MV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	OV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	QV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	SV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	UV	164	Total	C	N	O	S	0	0
			1239	772	217	243	7		
5	WV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	YV	164	Total	C	N	O	S	0	0
			1246	776	218	245	7		
5	aV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jV	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	lV	164	Total	C	N	O	S	0	0
			1246	776	218	245	7		
5	JW	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	TW	164	Total	C	N	O	S	0	0
			1246	777	219	243	7		
5	pX	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	rX	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	tX	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	vX	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	xX	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	zX	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	zY	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	pY	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	rY	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	tY	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	vY	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	xY	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Aa	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ca	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ea	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ga	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ia	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ka	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Na	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Pa	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ra	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ta	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Va	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Xa	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ab	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Cb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Eb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Gb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ib	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Kb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Mb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ob	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Qb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Sb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ub	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Wb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Yb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ab	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	cb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	eb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	gb	164	Total	C	N	O	S	0	0
			1246	776	218	245	7		
5	ib	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	kb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	mb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ob	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	qb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	sb	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ub	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Bc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Dc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Fc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Hc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Jc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Lc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Nc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Pc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Rc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Tc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Vc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Xc	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Oe	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Qe	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Se	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ue	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	We	164	Total	C	N	O	S	0	0
			1237	770	216	244	7		
5	Ze	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	be	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	de	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fe	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	he	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	je	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	le	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Af	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Cf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ef	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Gf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	If	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Kf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Nf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Pf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Rf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Tf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Vf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Xf	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ag	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Cg	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Eg	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Gg	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ig	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Kg	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Mg	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Og	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Qg	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Sg	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ug	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Wg	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Ah	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ch	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Eh	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Gh	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ih	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Kh	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Nh	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ph	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Rh	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Th	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Vh	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Xh	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ai	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ci	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ei	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Gi	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ii	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ki	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Mi	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Oi	164	Total	C	N	O	S	0	0
			1244	776	216	245	7		
5	Qi	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Si	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ui	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Wi	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Oj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Qj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Sj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Uj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Wj	164	Total	C	N	O	S	0	0
			1240	773	215	245	7		
5	Zj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	bj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	lj	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ak	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ck	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ek	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Gk	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ik	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Kk	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Nk	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Pk	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Rk	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Tk	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Vk	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Xk	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ol	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ql	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Sl	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Ul	164	Total	C	N	O	S	0	0
			1247	778	219	243	7		
5	Wl	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Zl	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	bl	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dl	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fl	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hl	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jl	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	ll	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	On	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Qn	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	Sn	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Un	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Wn	164	Total 1244	C 776	N 216	O 245	S 7	0	0
5	Zn	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	bn	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	dn	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	fn	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	hn	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	jn	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	ln	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Cp	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Ep	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Gp	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Ip	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Kp	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Mp	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Op	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Qp	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Sp	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Up	164	Total 1246	C 776	N 218	O 245	S 7	0	0
5	Wp	164	Total 1250	C 779	N 219	O 245	S 7	0	0
5	Yp	164	Total 1242	C 774	N 218	O 243	S 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	ap	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	dp	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	fp	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	hp	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	jp	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
5	lp	164	Total	C	N	O	S	0	0
			1242	774	217	244	7		

- Molecule 6 is a protein called B-phycoerythrin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	P1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	R1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	T1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	V1	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
6	Y1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	a1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	c1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	e1	177	Total	C	N	O	S	0	0
			1290	797	224	257	12		
6	g1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	i1	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
6	k1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	m1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
6	C2	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	E2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	G2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	I2	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	K2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	M2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	O2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Q2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	S2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	U2	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	W2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Y2	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	D3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	F3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	H3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	J3	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	L3	177	Total 1299	C 804	N 224	O 259	S 12	3	0
6	N3	177	Total 1290	C 799	N 221	O 258	S 12	3	0
6	P3	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	R3	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	T3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	V3	177	Total 1303	C 806	N 225	O 260	S 12	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	X3	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Z3	177	Total 1300	C 805	N 225	O 258	S 12	3	0
6	c3	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	e3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	g3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	i3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	k3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	m3	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	P4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	R4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	T4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	V4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Y4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	a4	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	c4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	e4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	g4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	i4	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	k4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	m4	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	B5	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	D5	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	F5	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	H5	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	J5	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	L5	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	N5	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	P5	177	Total 1299	C 804	N 225	O 258	S 12	3	0
6	R5	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	T5	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	V5	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	X5	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	B6	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	D6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	F6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	H6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	J6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	L6	177	Total 1297	C 803	N 222	O 260	S 12	3	0
6	N6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	P6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	R6	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	T6	177	Total 1300	C 804	N 225	O 259	S 12	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	V6	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	X6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Z6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	b6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	d6	177	Total 1296	C 802	N 225	O 257	S 12	2	0
6	f6	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	h6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	j6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	l6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	n6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	p6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	r6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	t6	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	v6	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	P8	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	R8	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	T8	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	V8	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Y8	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	a8	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	c8	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	e8	177	Total 1290	C 797	N 224	O 257	S 12	0	0
6	g8	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	i8	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	k8	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	m8	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	BA	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	CA	177	Total 1284	C 793	N 225	O 254	S 12	0	0
6	DA	146	Total 1056	C 650	N 184	O 211	S 11	0	0
6	FA	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	GA	177	Total 1284	C 795	N 222	O 255	S 12	0	0
6	HA	174	Total 1270	C 785	N 222	O 252	S 11	0	0
6	IA	177	Total 1280	C 791	N 220	O 257	S 12	0	0
6	LA	177	Total 1277	C 788	N 221	O 256	S 12	0	0
6	MA	177	Total 1284	C 793	N 225	O 254	S 12	0	0
6	NA	146	Total 1056	C 650	N 184	O 211	S 11	0	0
6	OA	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	PA	177	Total 1272	C 787	N 219	O 254	S 12	0	0
6	QA	174	Total 1270	C 785	N 222	O 252	S 11	0	0
6	RA	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	SA	177	Total 1273	C 785	N 220	O 256	S 12	0	0
6	VA	177	Total 1288	C 797	N 222	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	XA	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	YA	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	ZA	152	Total 1105	C 684	N 191	O 219	S 11	0	0
6	aA	177	Total 1278	C 790	N 222	O 254	S 12	0	0
6	bA	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	dA	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	eA	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	gA	152	Total 1082	C 669	N 188	O 214	S 11	0	0
6	DC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	FC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	HC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	JC	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	LC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	NC	177	Total 1277	C 793	N 217	O 255	S 12	3	0
6	PC	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	RC	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	TC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	VC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	XC	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	ZC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	cC	177	Total 1300	C 804	N 225	O 259	S 12	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	eC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	gC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	iC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	kC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	mC	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	BD	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	DD	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	FD	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	HD	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	JD	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	LD	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	ND	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	PD	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	RD	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	TD	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	VD	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	XD	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	CF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	EF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	GF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	IF	177	Total 1300	C 804	N 225	O 259	S 12	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	KF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	MF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	OF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	QF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	SF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	UF	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	WF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	YF	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	1G	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	qG	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	sG	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	uG	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	wG	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	yG	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	BH	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	DH	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	FH	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	HH	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	JH	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	LH	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	OH	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	QH	177	1294	800	225	257	12	0	0
6	SH	177	1294	800	225	257	12	0	0
6	UH	177	1300	804	225	259	12	2	0
6	WH	177	1294	800	225	257	12	0	0
6	YH	177	1294	800	225	257	12	0	0
6	PI	177	1294	800	225	257	12	0	0
6	RI	177	1294	800	225	257	12	0	0
6	TI	177	1294	800	225	257	12	0	0
6	VI	177	1297	803	225	257	12	2	0
6	YI	177	1294	800	225	257	12	0	0
6	aI	177	1294	800	225	257	12	0	0
6	cI	177	1294	800	225	257	12	0	0
6	eI	177	1294	800	225	257	12	0	0
6	gI	177	1294	800	225	257	12	0	0
6	iI	177	1300	804	225	259	12	2	0
6	kI	177	1294	800	225	257	12	0	0
6	mI	177	1294	800	225	257	12	0	0
6	BJ	177	1294	800	225	257	12	0	0
6	DJ	177	1294	800	225	257	12	0	0
6	FJ	177	1294	800	225	257	12	0	0
6	HJ	177	1297	802	225	258	12	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	JJ	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	LJ	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	OJ	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	QJ	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	SJ	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	UJ	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	WJ	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	YJ	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	PK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	RK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	TK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	VK	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	YK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	aK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	cK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	eK	177	Total 1290	C 797	N 224	O 257	S 12	0	0
6	gK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	iK	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	kK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	mK	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	BL	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	DL	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	FL	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	HL	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	JL	177	Total 1287	C 796	N 223	O 256	S 12	0	0
6	LL	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	NL	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	PL	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	RL	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	TL	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	VL	177	Total 1288	C 797	N 224	O 255	S 12	0	0
6	XL	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	CM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	EM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	GM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	IM	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	KM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	MM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	OM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	QM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	SM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	UM	177	Total 1300	C 804	N 225	O 259	S 12	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	WM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	YM	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	yN	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	1N	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	qN	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	sN	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	uN	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	wN	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	PP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	RP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	TP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	VP	177	Total 1297	C 803	N 225	O 257	S 12	2	0
6	YP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	aP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	cP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	eP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	gP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	iP	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	kP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	mP	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	BQ	177	Total 1297	C 802	N 225	O 258	S 12	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	DQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	FQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	HQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	JQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	LQ	177	Total 1297	C 803	N 222	O 260	S 12	3	0
6	NQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	PQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	RQ	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	TQ	177	Total 1298	C 803	N 225	O 258	S 12	2	0
6	VQ	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	XQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	ZQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	bQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	dQ	177	Total 1296	C 802	N 225	O 257	S 12	2	0
6	fQ	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	hQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	jQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	lQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	nQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	pQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	rQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	tQ	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	vQ	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	PR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	RR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	TR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	VR	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	YR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	aR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	cR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	eR	177	Total 1290	C 797	N 224	O 257	S 12	0	0
6	gR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	iR	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	kR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	mR	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	PS	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	RS	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	TS	177	Total 1290	C 797	N 224	O 257	S 12	0	0
6	VS	177	Total 1297	C 803	N 225	O 257	S 12	2	0
6	YS	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	aS	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	cS	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	eS	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	gS	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	iS	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	kS	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	mS	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	BT	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	DT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	FT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	HT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	JT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	LT	177	Total 1297	C 803	N 222	O 260	S 12	3	0
6	NT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	PT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	RT	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	TT	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	VT	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	XT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	ZT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	bT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	dT	177	Total 1296	C 802	N 225	O 257	S 12	2	0
6	fT	177	Total 1300	C 804	N 225	O 259	S 12	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	hT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	jT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	lT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	nT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	pT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	rT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	tT	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	vT	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	BU	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	DU	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	FU	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	HU	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	JU	177	Total 1287	C 796	N 223	O 256	S 12	0	0
6	LU	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	NU	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	PU	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	RU	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	TU	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	VU	177	Total 1290	C 797	N 224	O 257	S 12	0	0
6	XU	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	DV	177	Total 1303	C 806	N 225	O 260	S 12	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	FV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	HV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	JV	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	LV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	NV	177	Total 1284	C 796	N 218	O 258	S 12	3	0
6	PV	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	RV	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	TV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	VV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	XV	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	ZV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	cV	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	eV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	gV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	iV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	kV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	mV	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	BW	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	CW	177	Total 1284	C 793	N 225	O 254	S 12	0	0
6	DW	146	Total 1056	C 650	N 184	O 211	S 11	0	0
6	FW	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	GW	177	Total 1284	C 795	N 222	O 255	S 12	0	0
6	HW	174	Total 1270	C 785	N 222	O 252	S 11	0	0
6	IW	177	Total 1273	C 785	N 220	O 256	S 12	0	0
6	LW	177	Total 1274	C 787	N 221	O 254	S 12	0	0
6	MW	177	Total 1284	C 793	N 225	O 254	S 12	0	0
6	NW	146	Total 1056	C 650	N 184	O 211	S 11	0	0
6	OW	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	PW	177	Total 1279	C 793	N 219	O 255	S 12	0	0
6	QW	174	Total 1270	C 785	N 222	O 252	S 11	0	0
6	RW	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	SW	177	Total 1271	C 783	N 220	O 256	S 12	0	0
6	VW	177	Total 1282	C 794	N 219	O 257	S 12	0	0
6	XW	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	YW	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	ZW	152	Total 1105	C 684	N 191	O 219	S 11	0	0
6	aW	177	Total 1278	C 790	N 222	O 254	S 12	0	0
6	bW	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	dW	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	eW	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	gW	152	Total 1086	C 672	N 188	O 215	S 11	0	0
6	1X	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	qX	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	sX	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	uX	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	wX	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	yX	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	yY	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	1Y	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	qY	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	sY	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	uY	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	wY	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Ba	177	Total 1291	C 799	N 224	O 256	S 12	0	0
6	Da	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Fa	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ha	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Ja	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	La	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Oa	177	Total 1291	C 799	N 224	O 256	S 12	0	0
6	Qa	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Sa	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ua	177	Total 1300	C 804	N 225	O 259	S 12	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	Wa	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ya	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Bb	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	Db	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Fb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Hb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Jb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Lb	177	Total 1291	C 797	N 222	O 260	S 12	3	0
6	Nb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Pb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Rb	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Tb	177	Total 1298	C 803	N 225	O 258	S 12	2	0
6	Vb	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Xb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Zb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	bb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	db	177	Total 1296	C 802	N 225	O 257	S 12	2	0
6	fb	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	hb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	jb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	lb	177	Total 1303	C 806	N 225	O 260	S 12	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	nb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	pb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	rb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	tb	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	vb	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Cc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ec	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Gc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ic	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Kc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Mc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Oc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Qc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Sc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Uc	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Wc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Yc	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Pe	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Re	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Te	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ve	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	Ye	177	Total 1291	C 799	N 225	O 255	S 12	0	0
6	ae	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	ce	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	ee	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	ge	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	ie	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	ke	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	me	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Bf	177	Total 1291	C 799	N 224	O 256	S 12	0	0
6	Df	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ff	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Hf	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Jf	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Lf	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Of	177	Total 1291	C 799	N 224	O 256	S 12	0	0
6	Qf	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Sf	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Uf	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Wf	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Yf	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Bg	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	Dg	177	Total 1294	800	225	257	12	0	0
6	Fg	177	Total 1294	800	225	257	12	0	0
6	Hg	177	Total 1300	804	225	259	12	2	0
6	Jg	177	Total 1294	800	225	257	12	0	0
6	Lg	177	Total 1294	800	225	257	12	0	0
6	Ng	177	Total 1303	806	225	260	12	3	0
6	Pg	177	Total 1303	806	225	260	12	3	0
6	Rg	177	Total 1303	806	225	260	12	3	0
6	Tg	177	Total 1303	806	225	260	12	3	0
6	Vg	177	Total 1303	806	225	260	12	3	0
6	Xg	177	Total 1303	806	225	260	12	3	0
6	Bh	177	Total 1294	800	225	257	12	0	0
6	Dh	177	Total 1294	800	225	257	12	0	0
6	Fh	177	Total 1294	800	225	257	12	0	0
6	Hh	177	Total 1300	804	225	259	12	2	0
6	Jh	177	Total 1294	800	225	257	12	0	0
6	Lh	177	Total 1294	800	225	257	12	0	0
6	Oh	177	Total 1294	800	225	257	12	0	0
6	Qh	177	Total 1294	800	225	257	12	0	0
6	Sh	177	Total 1294	800	225	257	12	0	0
6	Uh	177	Total 1300	804	225	259	12	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	Wh	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Yh	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Bi	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Di	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Fi	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Hi	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Ji	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Li	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ni	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Pi	177	Total 1299	C 804	N 225	O 258	S 12	3	0
6	Ri	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Ti	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Vi	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Xi	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Pj	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Rj	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Tj	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Vj	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Yj	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	aj	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	cj	177	Total 1294	C 800	N 225	O 257	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	ej	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	gj	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	ij	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	kj	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	mj	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Bk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Dk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Fk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Hk	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	Jk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Lk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Ok	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Qk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Sk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Uk	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	Wk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Yk	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Pl	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Rl	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Tl	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Vl	177	Total 1297	C 803	N 225	O 257	S 12	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	Yl	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	al	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	cl	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	el	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	gl	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	il	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	kl	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	ml	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Pn	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Rn	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Th	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Vn	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Yn	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	an	177	Total 1288	C 797	N 222	O 257	S 12	0	0
6	cn	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	en	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	gn	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	in	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	kn	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	mn	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Dp	177	Total 1303	C 806	N 225	O 260	S 12	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	Fp	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Hp	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Jp	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Lp	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Np	177	Total 1293	C 800	N 221	O 260	S 12	3	0
6	Pp	177	Total 1294	C 800	N 225	O 257	S 12	0	0
6	Rp	177	Total 1297	C 802	N 225	O 258	S 12	1	0
6	Tp	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Vp	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	Xp	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	Zp	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	cp	177	Total 1300	C 804	N 225	O 259	S 12	2	0
6	ep	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	gp	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	ip	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	kp	177	Total 1303	C 806	N 225	O 260	S 12	3	0
6	mp	177	Total 1303	C 806	N 225	O 260	S 12	3	0

- Molecule 7 is a protein called Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	X1	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	X4	324	Total 2527	C 1603	N 431	O 486	S 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	X8	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	XI	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	XK	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	XP	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	XR	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	XS	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	Xe	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	Xj	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	Xl	324	Total 2527	C 1603	N 431	O 486	S 7	0	0
7	Xn	324	Total 2527	C 1603	N 431	O 486	S 7	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
X1	275	ALA	SER	conflict	UNP A0A5J4YM59
X4	275	ALA	SER	conflict	UNP A0A5J4YM59
X8	275	ALA	SER	conflict	UNP A0A5J4YM59
XI	275	ALA	SER	conflict	UNP A0A5J4YM59
XK	275	ALA	SER	conflict	UNP A0A5J4YM59
XP	275	ALA	SER	conflict	UNP A0A5J4YM59
XR	275	ALA	SER	conflict	UNP A0A5J4YM59
XS	275	ALA	SER	conflict	UNP A0A5J4YM59
Xe	275	ALA	SER	conflict	UNP A0A5J4YM59
Xj	275	ALA	SER	conflict	UNP A0A5J4YM59
Xl	275	ALA	SER	conflict	UNP A0A5J4YM59
Xn	275	ALA	SER	conflict	UNP A0A5J4YM59

- Molecule 8 is a protein called Phycobilisome 27.9 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	d2	285	Total 2197	C 1364	N 387	O 435	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	dF	285	Total	C	N	O	S	0	0
			2197	1364	387	435	11		
8	dM	285	Total	C	N	O	S	0	0
			2197	1364	387	435	11		
8	dc	285	Total	C	N	O	S	0	0
			2197	1364	387	435	11		

- Molecule 9 is a protein called R-phycoerythrin gamma chain, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	A3	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	w6	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	x6	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	AC	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	wQ	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	xQ	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	wT	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	xT	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	AV	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	wb	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	xb	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
9	Ap	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		

- Molecule 10 is a protein called R-phycoerythrin gamma chain, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	B3	250	Total	C	N	O	S	0	0
			1902	1184	346	358	14		
10	y6	250	Total	C	N	O	S	0	0
			1902	1184	346	358	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	BC	250	Total 1902	C 1184	N 346	O 358	S 14	0	0
10	yQ	250	Total 1902	C 1184	N 346	O 358	S 14	0	0
10	yT	250	Total 1902	C 1184	N 346	O 358	S 14	0	0
10	BV	250	Total 1902	C 1184	N 346	O 358	S 14	0	0
10	yb	250	Total 1902	C 1184	N 346	O 358	S 14	0	0
10	Bp	250	Total 1902	C 1184	N 346	O 358	S 14	0	0

- Molecule 11 is a protein called Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	b3	407	Total 3065	C 1936	N 530	O 587	S 12	0	0
11	bC	405	Total 3068	C 1935	N 532	O 586	S 15	0	0
11	bV	405	Total 3068	C 1935	N 532	O 586	S 15	0	0
11	bp	407	Total 3065	C 1936	N 530	O 587	S 12	0	0

- Molecule 12 is a protein called Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	e5	248	Total 1932	C 1217	N 336	O 369	S 10	0	0
12	eD	248	Total 1932	C 1217	N 336	O 369	S 10	0	0
12	eg	248	Total 1932	C 1217	N 336	O 369	S 10	0	0
12	ei	248	Total 1932	C 1217	N 336	O 369	S 10	0	0

- Molecule 13 is a protein called Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	z6	463	Total	C	N	O	S	0	0
			3592	2272	626	679	15		
13	zQ	462	Total	C	N	O	S	0	0
			3561	2254	622	670	15		
13	zT	463	Total	C	N	O	S	0	0
			3590	2272	624	679	15		
13	zb	462	Total	C	N	O	S	0	0
			3584	2267	626	676	15		

- Molecule 14 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	17	174	Total	C	N	O	S	0	0
			1330	876	208	236	10		
14	1o	174	Total	C	N	O	S	0	0
			1330	876	208	236	10		

- Molecule 15 is a protein called Chlorophyll a-b binding protein of LHCII type III, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	27	166	Total	C	N	O	S	0	0
			1229	811	192	223	3		
15	2o	166	Total	C	N	O	S	0	0
			1229	811	192	223	3		

- Molecule 16 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	37	169	Total	C	N	O	S	0	0
			1256	818	203	225	10		
16	3o	169	Total	C	N	O	S	0	0
			1256	818	203	225	10		

- Molecule 17 is a protein called Chlorophyll a-b binding protein 1B-21, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	47	172	Total	C	N	O	S	0	0
			1332	879	208	233	12		
17	4o	172	Total	C	N	O	S	0	0
			1332	879	208	233	12		

- Molecule 18 is a protein called Chlorophyll a-b binding protein 1B-21, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	57	174	Total	C	N	O	S	0	0
			1328	860	222	236	10		
18	5o	174	Total	C	N	O	S	0	0
			1328	860	222	236	10		

- Molecule 19 is a protein called Chlorophyll a-b binding protein 1B-21, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	67	169	Total	C	N	O	S	0	0
			1314	857	216	233	8		
19	6o	169	Total	C	N	O	S	0	0
			1314	857	216	233	8		

- Molecule 20 is a protein called Fucoxanthin-chlorophyll a-c binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	77	164	Total	C	N	O	S	0	0
			1270	828	209	227	6		
20	7o	164	Total	C	N	O	S	0	0
			1270	828	209	227	6		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
77	?	-	LYS	deletion	UNP A0A5J4YKR2
77	?	-	THR	deletion	UNP A0A5J4YKR2
7o	?	-	LYS	deletion	UNP A0A5J4YKR2
7o	?	-	THR	deletion	UNP A0A5J4YKR2

- Molecule 21 is a protein called RedCAP.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	87	180	Total	C	N	O	S	0	0
			1378	896	232	243	7		
21	8o	180	Total	C	N	O	S	0	0
			1378	896	232	243	7		

- Molecule 22 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	A7	745	Total	C	N	O	S	0	0
			5843	3819	1000	997	27		

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Mol	Chain	Residues	Atoms					AltConf	Trace
22	Ao	745	Total	C	N	O	S	0	0
			5843	3819	1000	997	27		

- Molecule 23 is a protein called PsaB.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	B7	732	Total	C	N	O	S	0	0
			5828	3834	980	996	18		
23	Bo	732	Total	C	N	O	S	0	0
			5828	3834	980	996	18		

- Molecule 24 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	C7	80	Total	C	N	O	S	0	0
			595	368	104	114	9		
24	Co	80	Total	C	N	O	S	0	0
			595	368	104	114	9		

- Molecule 25 is a protein called Photosystem I reaction center subunit II.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	D7	130	Total	C	N	O	S	0	0
			989	627	170	189	3		
25	Do	130	Total	C	N	O	S	0	0
			989	627	170	189	3		

- Molecule 26 is a protein called Photosystem I reaction center subunit IV.

Mol	Chain	Residues	Atoms				AltConf	Trace
26	E7	58	Total	C	N	O	0	0
			466	295	82	89		
26	Eo	58	Total	C	N	O	0	0
			466	295	82	89		

- Molecule 27 is a protein called Photosystem I reaction center subunit III.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	F7	158	Total	C	N	O	S	0	0
			1245	813	207	222	3		
27	Fo	158	Total	C	N	O	S	0	0
			1245	813	207	222	3		

- Molecule 28 is a protein called Cytochrome c6.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	G7	84	Total	C	N	O	S	0	0
			620	378	110	127	5		
28	Go	84	Total	C	N	O	S	0	0
			620	378	110	127	5		

- Molecule 29 is a protein called Photosystem I reaction center subunit VIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	I7	31	Total	C	N	O	S	0	0
			239	168	32	38	1		
29	Io	31	Total	C	N	O	S	0	0
			239	168	32	38	1		

- Molecule 30 is a protein called Photosystem I reaction center subunit IX.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	J7	38	Total	C	N	O	S	0	0
			308	211	45	50	2		
30	Jo	38	Total	C	N	O	S	0	0
			308	211	45	50	2		

- Molecule 31 is a protein called Photosystem I reaction center subunit Psak.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	K7	70	Total	C	N	O	S	0	0
			489	315	82	89	3		
31	Ko	70	Total	C	N	O	S	0	0
			489	315	82	89	3		

- Molecule 32 is a protein called Photosystem I reaction center subunit XI.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	L7	140	Total	C	N	O	S	0	0
			1055	689	166	198	2		
32	Lo	140	Total	C	N	O	S	0	0
			1055	689	166	198	2		

- Molecule 33 is a protein called Photosystem I reaction center subunit XII.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	M7	30	Total	C	N	O	S	0	0
			223	146	35	41	1		
33	Mo	30	Total	C	N	O	S	0	0
			223	146	35	41	1		

- Molecule 34 is a protein called Ferredoxin.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	N7	99	Total	C	N	O	S	0	0
			737	451	114	165	7		
34	No	99	Total	C	N	O	S	0	0
			737	451	114	165	7		

- Molecule 35 is a protein called Photosystem I subunit O.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	O7	92	Total	C	N	O	S	0	0
			699	462	112	123	2		
35	Oo	92	Total	C	N	O	S	0	0
			699	462	112	123	2		

- Molecule 36 is a protein called PsaR.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	R7	78	Total	C	N	O	S	0	0
			582	380	93	108	1		
36	Ro	78	Total	C	N	O	S	0	0
			582	380	93	108	1		

- Molecule 37 is a protein called LPS1.

Mol	Chain	Residues	Atoms				AltConf	Trace
37	Z7	66	Total	C	N	O	0	0
			330	198	66	66		
37	Zo	66	Total	C	N	O	0	0
			330	198	66	66		

- Molecule 38 is a protein called Photosystem II protein D1.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	A9	334	Total	C	N	O	S	0	0
			2571	1683	420	455	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
38	a9	334	Total	C	N	O	S	0	0
			2571	1683	420	455	13		
38	AE	334	Total	C	N	O	S	0	0
			2571	1683	420	455	13		
38	aE	334	Total	C	N	O	S	0	0
			2571	1683	420	455	13		
38	AO	334	Total	C	N	O	S	0	0
			2565	1678	420	454	13		
38	aO	334	Total	C	N	O	S	0	0
			2565	1678	420	454	13		
38	AZ	334	Total	C	N	O	S	0	0
			2565	1678	420	454	13		
38	aZ	334	Total	C	N	O	S	0	0
			2565	1678	420	454	13		
38	Am	334	Total	C	N	O	S	0	0
			2571	1683	420	455	13		
38	am	334	Total	C	N	O	S	0	0
			2571	1683	420	455	13		

- Molecule 39 is a protein called Photosystem II CP47 reaction center protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	B9	506	Total	C	N	O	S	0	0
			3928	2571	657	688	12		
39	b9	506	Total	C	N	O	S	0	0
			3934	2574	660	688	12		
39	BE	506	Total	C	N	O	S	0	0
			3928	2571	657	688	12		
39	bE	506	Total	C	N	O	S	0	0
			3934	2574	660	688	12		
39	BO	506	Total	C	N	O	S	0	0
			3928	2571	657	688	12		
39	bO	506	Total	C	N	O	S	0	0
			3928	2571	657	688	12		
39	BZ	506	Total	C	N	O	S	0	0
			3928	2571	657	688	12		
39	bZ	506	Total	C	N	O	S	0	0
			3928	2571	657	688	12		
39	Bm	506	Total	C	N	O	S	0	0
			3928	2571	657	688	12		
39	bm	506	Total	C	N	O	S	0	0
			3934	2574	660	688	12		

- Molecule 40 is a protein called Photosystem II CP43 reaction center protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	C9	452	Total	C	N	O	S	0	0
			3474	2274	579	609	12		
40	c9	452	Total	C	N	O	S	0	0
			3474	2274	579	609	12		
40	CE	452	Total	C	N	O	S	0	0
			3470	2272	579	607	12		
40	cE	452	Total	C	N	O	S	0	0
			3470	2272	579	607	12		
40	CO	452	Total	C	N	O	S	0	0
			3474	2274	579	609	12		
40	cO	452	Total	C	N	O	S	0	0
			3474	2274	579	609	12		
40	CZ	452	Total	C	N	O	S	0	0
			3474	2274	579	609	12		
40	cZ	452	Total	C	N	O	S	0	0
			3474	2274	579	609	12		
40	Cm	452	Total	C	N	O	S	0	0
			3474	2274	579	609	12		
40	cm	452	Total	C	N	O	S	0	0
			3474	2274	579	609	12		

- Molecule 41 is a protein called Photosystem II D2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	D9	341	Total	C	N	O	S	0	0
			2699	1785	438	464	12		
41	d9	342	Total	C	N	O	S	0	0
			2703	1787	439	465	12		
41	DE	341	Total	C	N	O	S	0	0
			2699	1785	438	464	12		
41	dE	342	Total	C	N	O	S	0	0
			2703	1787	439	465	12		
41	DO	341	Total	C	N	O	S	0	0
			2699	1785	438	464	12		
41	dO	342	Total	C	N	O	S	0	0
			2703	1787	439	465	12		
41	DZ	341	Total	C	N	O	S	0	0
			2699	1785	438	464	12		
41	dZ	342	Total	C	N	O	S	0	0
			2703	1787	439	465	12		
41	Dm	341	Total	C	N	O	S	0	0
			2699	1785	438	464	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	dm	342	2703	1787	439	465	12	0	0

- Molecule 42 is a protein called Cytochrome b559 subunit alpha.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
42	E9	78	616	402	104	110	0	0
42	e9	79	622	404	105	113	0	0
42	EE	78	616	402	104	110	0	0
42	eE	79	622	404	105	113	0	0
42	EO	78	616	402	104	110	0	0
42	eO	79	622	404	105	113	0	0
42	EZ	78	616	402	104	110	0	0
42	eZ	79	622	404	105	113	0	0
42	Em	78	616	402	104	110	0	0
42	em	79	622	404	105	113	0	0

- Molecule 43 is a protein called Cytochrome b559 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	F9	41	318	215	51	51	1	0	0
43	f9	41	324	218	54	51	1	0	0
43	FE	41	318	215	51	51	1	0	0
43	fE	41	324	218	54	51	1	0	0
43	FO	41	318	215	51	51	1	0	0
43	fO	41	324	218	54	51	1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	FZ	41	Total	C	N	O	S	0	0
			318	215	51	51	1		
43	fZ	41	Total	C	N	O	S	0	0
			324	218	54	51	1		
43	Fm	41	Total	C	N	O	S	0	0
			318	215	51	51	1		
43	fm	41	Total	C	N	O	S	0	0
			324	218	54	51	1		

- Molecule 44 is a protein called PSII_Pbs31 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	G9	152	Total	C	N	O	S	0	0
			1161	738	197	224	2		
44	g9	145	Total	C	N	O	S	0	0
			1106	702	189	213	2		
44	GE	152	Total	C	N	O	S	0	0
			1161	738	197	224	2		
44	gE	145	Total	C	N	O	S	0	0
			1106	702	189	213	2		
44	GO	152	Total	C	N	O	S	0	0
			1161	738	197	224	2		
44	gO	145	Total	C	N	O	S	0	0
			1106	702	189	213	2		
44	GZ	152	Total	C	N	O	S	0	0
			1161	738	197	224	2		
44	gZ	145	Total	C	N	O	S	0	0
			1106	702	189	213	2		
44	Gm	152	Total	C	N	O	S	0	0
			1161	738	197	224	2		
44	gm	145	Total	C	N	O	S	0	0
			1106	702	189	213	2		

- Molecule 45 is a protein called Photosystem II reaction center protein H.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	H9	66	Total	C	N	O	S	0	0
			508	340	78	88	2		
45	h9	65	Total	C	N	O	S	0	0
			500	336	76	86	2		
45	HE	66	Total	C	N	O	S	0	0
			508	340	78	88	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	hE	65	Total	C	N	O	S	0	0
			500	336	76	86	2		
45	HO	66	Total	C	N	O	S	0	0
			508	340	78	88	2		
45	hO	65	Total	C	N	O	S	0	0
			500	336	76	86	2		
45	HZ	66	Total	C	N	O	S	0	0
			508	340	78	88	2		
45	hZ	65	Total	C	N	O	S	0	0
			500	336	76	86	2		
45	Hm	66	Total	C	N	O	S	0	0
			508	340	78	88	2		
45	hm	65	Total	C	N	O	S	0	0
			500	336	76	86	2		

- Molecule 46 is a protein called Photosystem II reaction center protein I.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	I9	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	i9	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	IE	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	iE	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	IO	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	iO	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	IZ	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	iZ	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	Im	35	Total	C	N	O	S	0	0
			295	201	46	47	1		
46	im	35	Total	C	N	O	S	0	0
			295	201	46	47	1		

- Molecule 47 is a protein called Photosystem II reaction center protein J.

Mol	Chain	Residues	Atoms				AltConf	Trace
47	J9	36	Total 255	C 173	N 40	O 42	0	0
47	j9	36	Total 255	C 173	N 40	O 42	0	0
47	JE	36	Total 255	C 173	N 40	O 42	0	0
47	jE	36	Total 255	C 173	N 40	O 42	0	0
47	JO	36	Total 255	C 173	N 40	O 42	0	0
47	jO	36	Total 255	C 173	N 40	O 42	0	0
47	JZ	36	Total 255	C 173	N 40	O 42	0	0
47	jZ	36	Total 255	C 173	N 40	O 42	0	0
47	Jm	36	Total 255	C 173	N 40	O 42	0	0
47	jm	36	Total 255	C 173	N 40	O 42	0	0

- Molecule 48 is a protein called Photosystem II reaction center protein K.

Mol	Chain	Residues	Atoms				AltConf	Trace
48	K9	37	Total 294	C 209	N 43	O 42	0	0
48	k9	37	Total 294	C 209	N 43	O 42	0	0
48	KE	37	Total 294	C 209	N 43	O 42	0	0
48	kE	37	Total 294	C 209	N 43	O 42	0	0
48	KO	37	Total 294	C 209	N 43	O 42	0	0
48	kO	37	Total 291	C 208	N 43	O 40	0	0
48	KZ	37	Total 294	C 209	N 43	O 42	0	0
48	kZ	37	Total 291	C 208	N 43	O 40	0	0
48	Km	37	Total 294	C 209	N 43	O 42	0	0
48	km	37	Total 294	C 209	N 43	O 42	0	0

- Molecule 49 is a protein called Photosystem II reaction center protein L.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
49	L9	37	302	204	48	50	0	0
49	l9	37	302	204	48	50	0	0
49	LE	37	302	204	48	50	0	0
49	lE	37	302	204	48	50	0	0
49	LO	37	302	204	48	50	0	0
49	lO	37	302	204	48	50	0	0
49	LZ	37	302	204	48	50	0	0
49	lZ	37	302	204	48	50	0	0
49	Lm	37	302	204	48	50	0	0
49	lm	37	302	204	48	50	0	0

- Molecule 50 is a protein called PsbM.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
50	M9	42	306	203	48	54	1	0	0
50	m9	42	306	203	48	54	1	0	0
50	ME	42	306	203	48	54	1	0	0
50	mE	42	306	203	48	54	1	0	0
50	MO	42	306	203	48	54	1	0	0
50	mO	42	306	203	48	54	1	0	0
50	MZ	42	306	203	48	54	1	0	0
50	mZ	42	306	203	48	54	1	0	0
50	Mm	42	306	203	48	54	1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
50	mm	42	306	203	48	54	1	0	0

- Molecule 51 is a protein called Psb34.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
51	N9	29	145	87	29	29	0	0
51	n9	27	135	81	27	27	0	0
51	NE	27	135	81	27	27	0	0
51	nE	27	135	81	27	27	0	0
51	NO	29	145	87	29	29	0	0
51	nO	27	135	81	27	27	0	0
51	NZ	29	145	87	29	29	0	0
51	nZ	27	135	81	27	27	0	0
51	Nm	29	145	87	29	29	0	0
51	nm	27	135	81	27	27	0	0

- Molecule 52 is a protein called Oxygen-evolving enhancer protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
52	O9	254	1857	1167	305	376	9	0	0
52	o9	254	1853	1163	304	377	9	0	0
52	OE	254	1857	1167	305	376	9	0	0
52	oE	254	1859	1168	305	377	9	0	0
52	OO	254	1857	1167	305	376	9	0	0
52	oO	254	1859	1168	305	377	9	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
52	OZ	254	Total	C	N	O	S	0	0
			1857	1167	305	376	9		
52	oZ	254	Total	C	N	O	S	0	0
			1859	1168	305	377	9		
52	Om	254	Total	C	N	O	S	0	0
			1857	1167	305	376	9		
52	om	254	Total	C	N	O	S	0	0
			1859	1168	305	377	9		

- Molecule 53 is a protein called PsbQ'.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	Q9	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	q9	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	QE	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	qE	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	QO	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	qO	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	QZ	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	qZ	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	Qm	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		
53	qm	141	Total	C	N	O	S	0	0
			1134	702	207	220	5		

- Molecule 54 is a protein called Photosystem II protein Y.

Mol	Chain	Residues	Atoms				AltConf	Trace
54	R9	33	Total	C	N	O	0	0
			263	175	47	41		
54	r9	33	Total	C	N	O	0	0
			263	175	47	41		
54	RE	33	Total	C	N	O	0	0
			263	175	47	41		

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Mol	Chain	Residues	Atoms				AltConf	Trace
54	rE	33	Total	C	N	O	0	0
			263	175	47	41		
54	RO	33	Total	C	N	O	0	0
			263	175	47	41		
54	rO	33	Total	C	N	O	0	0
			263	175	47	41		
54	RZ	33	Total	C	N	O	0	0
			263	175	47	41		
54	rZ	33	Total	C	N	O	0	0
			263	175	47	41		
54	Rm	33	Total	C	N	O	0	0
			263	175	47	41		
54	rm	33	Total	C	N	O	0	0
			263	175	47	41		

- Molecule 55 is a protein called LPP1.

Mol	Chain	Residues	Atoms				AltConf	Trace
55	S9	119	Total	C	N	O	0	0
			595	357	119	119		
55	SE	62	Total	C	N	O	0	0
			310	186	62	62		
55	sE	62	Total	C	N	O	0	0
			310	186	62	62		
55	SO	92	Total	C	N	O	0	0
			460	276	92	92		
55	SZ	92	Total	C	N	O	0	0
			460	276	92	92		
55	Sm	115	Total	C	N	O	0	0
			575	345	115	115		

- Molecule 56 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	T9	31	Total	C	N	O	S	0	0
			252	177	36	37	2		
56	t9	31	Total	C	N	O	S	0	0
			252	177	36	37	2		
56	TE	31	Total	C	N	O	S	0	0
			252	177	36	37	2		
56	tE	31	Total	C	N	O	S	0	0
			252	177	36	37	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
56	TO	31	Total	C	N	O	S	0	0
			252	177	36	37	2		
56	tO	31	Total	C	N	O	S	0	0
			252	177	36	37	2		
56	TZ	31	Total	C	N	O	S	0	0
			252	177	36	37	2		
56	tZ	31	Total	C	N	O	S	0	0
			252	177	36	37	2		
56	Tm	31	Total	C	N	O	S	0	0
			252	177	36	37	2		
56	tm	31	Total	C	N	O	S	0	0
			252	177	36	37	2		

- Molecule 57 is a protein called PS II complex 12 kDa extrinsic protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	U9	93	Total	C	N	O	S	0	0
			726	460	120	143	3		
57	u9	93	Total	C	N	O	S	0	0
			735	466	121	145	3		
57	UE	93	Total	C	N	O	S	0	0
			726	460	120	143	3		
57	uE	93	Total	C	N	O	S	0	0
			735	466	121	145	3		
57	UO	93	Total	C	N	O	S	0	0
			726	460	120	143	3		
57	uO	93	Total	C	N	O	S	0	0
			735	466	121	145	3		
57	UZ	93	Total	C	N	O	S	0	0
			726	460	120	143	3		
57	uZ	93	Total	C	N	O	S	0	0
			735	466	121	145	3		
57	Um	93	Total	C	N	O	S	0	0
			726	460	120	143	3		
57	um	93	Total	C	N	O	S	0	0
			735	466	121	145	3		

- Molecule 58 is a protein called Cytochrome c550.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	V9	134	Total	C	N	O	S	0	0
			980	615	168	193	4		

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Mol	Chain	Residues	Atoms				AltConf	Trace	
58	v9	134	Total	C	N	O	S	0	0
			980	615	168	193	4		
58	VE	134	Total	C	N	O	S	0	0
			980	615	168	193	4		
58	vE	134	Total	C	N	O	S	0	0
			980	615	168	193	4		
58	VO	134	Total	C	N	O	S	0	0
			980	615	168	193	4		
58	vO	134	Total	C	N	O	S	0	0
			980	615	168	193	4		
58	VZ	134	Total	C	N	O	S	0	0
			980	615	168	193	4		
58	vZ	134	Total	C	N	O	S	0	0
			980	615	168	193	4		
58	Vm	134	Total	C	N	O	S	0	0
			980	615	168	193	4		
58	vm	134	Total	C	N	O	S	0	0
			980	615	168	193	4		

- Molecule 59 is a protein called PsbW.

Mol	Chain	Residues	Atoms				AltConf	Trace
59	W9	46	Total	C	N	O	0	0
			230	138	46	46		
59	w9	46	Total	C	N	O	0	0
			230	138	46	46		
59	WE	46	Total	C	N	O	0	0
			230	138	46	46		
59	wE	46	Total	C	N	O	0	0
			230	138	46	46		
59	WO	46	Total	C	N	O	0	0
			230	138	46	46		
59	wO	46	Total	C	N	O	0	0
			230	138	46	46		
59	WZ	46	Total	C	N	O	0	0
			230	138	46	46		
59	wZ	46	Total	C	N	O	0	0
			230	138	46	46		
59	Wm	46	Total	C	N	O	0	0
			230	138	46	46		
59	wm	46	Total	C	N	O	0	0
			230	138	46	46		

- Molecule 60 is a protein called Photosystem II reaction center X protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	X9	39	Total	C	N	O	S	0	0
			268	177	40	50	1		
60	x9	39	Total	C	N	O	S	0	0
			278	183	44	50	1		
60	XE	39	Total	C	N	O	S	0	0
			268	177	40	50	1		
60	xE	39	Total	C	N	O	S	0	0
			278	183	44	50	1		
60	XO	39	Total	C	N	O	S	0	0
			268	177	40	50	1		
60	xO	39	Total	C	N	O	S	0	0
			278	183	44	50	1		
60	XZ	39	Total	C	N	O	S	0	0
			268	177	40	50	1		
60	xZ	39	Total	C	N	O	S	0	0
			278	183	44	50	1		
60	Xm	39	Total	C	N	O	S	0	0
			268	177	40	50	1		
60	xm	39	Total	C	N	O	S	0	0
			278	183	44	50	1		

- Molecule 61 is a protein called Photosystem II reaction center protein Ycf12.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	Y9	33	Total	C	N	O	S	0	0
			251	172	40	38	1		
61	y9	33	Total	C	N	O	S	0	0
			251	172	40	38	1		
61	YE	33	Total	C	N	O	S	0	0
			251	172	40	38	1		
61	yE	33	Total	C	N	O	S	0	0
			251	172	40	38	1		
61	YO	33	Total	C	N	O	S	0	0
			251	172	40	38	1		
61	yO	33	Total	C	N	O	S	0	0
			251	172	40	38	1		
61	YZ	33	Total	C	N	O	S	0	0
			251	172	40	38	1		
61	yZ	33	Total	C	N	O	S	0	0
			251	172	40	38	1		
61	Ym	33	Total	C	N	O	S	0	0
			251	172	40	38	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
61	ym	33	251	172	40	38	1	0	0

- Molecule 62 is a protein called Photosystem II reaction center protein Z.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
62	Z9	59	438	294	67	77		0	0
62	z9	59	438	294	67	77		0	0
62	ZE	59	438	294	67	77		0	0
62	zE	59	438	294	67	77		0	0
62	ZO	60	446	299	68	78	1	0	0
62	zO	60	446	299	68	78	1	0	0
62	ZZ	60	446	299	68	78	1	0	0
62	zZ	60	446	299	68	78	1	0	0
62	Zm	59	430	289	66	75		0	0
62	zm	59	438	294	67	77		0	0

- Molecule 63 is a protein called CNT.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
63	p9	118	590	354	118	118	0	0
63	P9	118	590	354	118	118	0	0
63	pE	118	590	354	118	118	0	0
63	PE	118	590	354	118	118	0	0
63	pO	118	590	354	118	118	0	0
63	PO	118	590	354	118	118	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
63	pZ	118	Total	C	N	O	0	0
			590	354	118	118		
63	PZ	118	Total	C	N	O	0	0
			590	354	118	118		
63	pm	118	Total	C	N	O	0	0
			590	354	118	118		
63	Pm	118	Total	C	N	O	0	0
			590	354	118	118		

- Molecule 64 is a protein called Linker4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
64	AA	103	Total	C	N	O	S	0	0
			758	482	126	146	4		
64	EA	103	Total	C	N	O	S	0	0
			764	482	129	149	4		
64	AW	103	Total	C	N	O	S	0	0
			755	477	126	148	4		
64	EW	103	Total	C	N	O	S	0	0
			769	485	130	150	4		

- Molecule 65 is a protein called CaRSP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
65	KA	226	Total	C	N	O	S	0	0
			1691	1066	295	321	9		
65	UA	226	Total	C	N	O	S	0	0
			1696	1067	300	321	8		
65	KW	226	Total	C	N	O	S	0	0
			1687	1063	294	321	9		
65	UW	226	Total	C	N	O	S	0	0
			1705	1072	302	323	8		

- Molecule 66 is a protein called CaRSP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
66	WA	139	Total	C	N	O	S	0	0
			1052	663	180	206	3		
66	cA	139	Total	C	N	O	S	0	0
			1050	662	177	209	2		
66	WW	139	Total	C	N	O	S	0	0
			1056	665	180	208	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
66	cW	139	1052	663	177	210	2	0	0

- Molecule 67 is a protein called FAS1 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
67	fA	285	2169	1393	366	400	10	0	0
67	hA	285	2160	1386	364	400	10	0	0
67	fW	285	2154	1383	361	400	10	0	0
67	hW	285	2160	1386	364	400	10	0	0

- Molecule 68 is a protein called Lrc4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
68	2B	132	1004	631	179	191	3	0	0
68	ZB	132	1004	631	179	191	3	0	0
68	2d	132	1004	631	179	191	3	0	0
68	Zd	132	1004	631	179	191	3	0	0

- Molecule 69 is a protein called LRC5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
69	3B	253	1878	1181	319	371	7	0	0
69	aB	253	1871	1176	315	373	7	0	0
69	3d	253	1872	1178	316	371	7	0	0
69	ad	253	1864	1170	315	372	7	0	0

- Molecule 70 is a protein called FAS1 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	4B	206	Total	C	N	O	S	0	0
			1520	974	257	284	5		
70	bB	206	Total	C	N	O	S	0	0
			1521	973	257	286	5		
70	4d	206	Total	C	N	O	S	0	0
			1520	974	257	284	5		
70	bd	206	Total	C	N	O	S	0	0
			1528	979	258	286	5		

- Molecule 71 is a protein called Phycobiliprotein ApcE.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	6B	868	Total	C	N	O	S	0	0
			6921	4425	1195	1286	15		
71	7B	865	Total	C	N	O	S	0	0
			6897	4415	1190	1277	15		
71	6d	868	Total	C	N	O	S	0	0
			6921	4425	1195	1286	15		
71	7d	865	Total	C	N	O	S	0	0
			6894	4414	1189	1276	15		

- Molecule 72 is a protein called Allophycocyanin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
72	AB	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
72	CB	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
72	EB	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
72	GB	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
72	JB	160	Total	C	N	O	S	0	0
			1219	765	208	239	7		
72	KB	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
72	NB	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
72	PB	160	Total	C	N	O	S	0	0
			1215	763	208	237	7		
72	RB	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
72	TB	160	Total	C	N	O	S	0	0
			1221	766	211	237	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
72	cB	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	eB	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	gB	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	iB	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	lB	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	mB	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	pB	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	rB	160	Total 1213	C 762	N 208	O 236	S 7	0	0
72	tB	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	vB	160	Total 1221	C 766	N 211	O 237	S 7	0	0
72	Ad	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	Cd	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	Ed	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	Gd	160	Total 1219	C 765	N 208	O 239	S 7	0	0
72	Jd	160	Total 1219	C 765	N 208	O 239	S 7	0	0
72	Kd	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	Nd	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	Pd	160	Total 1215	C 763	N 208	O 237	S 7	0	0
72	Rd	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	Td	160	Total 1225	C 768	N 211	O 239	S 7	0	0
72	cd	160	Total 1225	C 768	N 211	O 239	S 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
72	ed	160	1225	768	211	239	7	0	0
72	gd	160	1225	768	211	239	7	0	0
72	id	160	1225	768	211	239	7	0	0
72	ld	160	1219	765	208	239	7	0	0
72	md	160	1225	768	211	239	7	0	0
72	pd	160	1225	768	211	239	7	0	0
72	rd	160	1213	762	208	236	7	0	0
72	td	160	1225	768	211	239	7	0	0
72	vd	160	1221	766	211	237	7	0	0

- Molecule 73 is a protein called Allophycocyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
73	BB	161	1213	761	206	239	7	0	0
73	DB	161	1220	767	206	240	7	0	0
73	FB	161	1220	767	206	240	7	0	0
73	HB	161	1220	767	206	240	7	0	0
73	IB	161	1220	767	206	240	7	0	0
73	LB	161	1213	761	206	239	7	0	0
73	MB	161	1216	764	205	240	7	0	0
73	OB	161	1214	764	203	240	7	0	0
73	QB	161	1218	766	206	239	7	0	0
73	SB	161	1214	764	203	240	7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
73	UB	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	dB	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	fB	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	hB	161	Total	C	N	O	S	0	0
			1213	761	206	239	7		
73	jB	161	Total	C	N	O	S	0	0
			1216	764	205	240	7		
73	kB	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	nB	161	Total	C	N	O	S	0	0
			1205	756	204	238	7		
73	oB	161	Total	C	N	O	S	0	0
			1216	764	205	240	7		
73	qB	161	Total	C	N	O	S	0	0
			1214	764	203	240	7		
73	sB	161	Total	C	N	O	S	0	0
			1218	766	206	239	7		
73	uB	161	Total	C	N	O	S	0	0
			1214	764	203	240	7		
73	wB	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	Bd	161	Total	C	N	O	S	0	0
			1213	761	206	239	7		
73	Dd	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	Fd	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	Hd	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	Id	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	Ld	161	Total	C	N	O	S	0	0
			1213	761	206	239	7		
73	Md	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	Od	161	Total	C	N	O	S	0	0
			1214	764	203	240	7		
73	Qd	161	Total	C	N	O	S	0	0
			1218	766	206	239	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
73	Sd	161	Total	C	N	O	S	0	0
			1214	764	203	240	7		
73	Ud	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	dd	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	fd	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	hd	161	Total	C	N	O	S	0	0
			1213	761	206	239	7		
73	jd	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	kd	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	nd	161	Total	C	N	O	S	0	0
			1213	761	206	239	7		
73	od	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
73	qd	161	Total	C	N	O	S	0	0
			1214	764	203	240	7		
73	sd	161	Total	C	N	O	S	0	0
			1218	766	206	239	7		
73	ud	161	Total	C	N	O	S	0	0
			1214	764	203	240	7		
73	wd	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		

- Molecule 74 is a protein called Allophycocyanin gamma subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	VB	160	Total	C	N	O	S	0	0
			1260	808	207	240	5		
74	xB	160	Total	C	N	O	S	0	0
			1260	808	207	240	5		
74	Vd	160	Total	C	N	O	S	0	0
			1260	808	207	240	5		
74	xd	160	Total	C	N	O	S	0	0
			1260	808	207	240	5		

- Molecule 75 is a protein called Allophycocyanin beta 18 subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
75	WB	173	Total	C	N	O	S	0	0
			1376	881	230	261	4		
75	yB	173	Total	C	N	O	S	0	0
			1376	881	230	261	4		
75	Wd	173	Total	C	N	O	S	0	0
			1376	881	230	261	4		
75	yd	173	Total	C	N	O	S	0	0
			1376	881	230	261	4		

- Molecule 76 is a protein called Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	XB	92	Total	C	N	O	S	0	0
			720	453	127	135	5		
76	zB	92	Total	C	N	O	S	0	0
			720	453	127	135	5		
76	Xd	92	Total	C	N	O	S	0	0
			720	453	127	135	5		
76	zd	92	Total	C	N	O	S	0	0
			720	453	127	135	5		

- Molecule 77 is a protein called LPP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	YB	61	Total	C	N	O	S	0	0
			415	256	77	79	3		
77	5B	57	Total	C	N	O	S	0	0
			369	230	70	66	3		
77	5d	57	Total	C	N	O	S	0	0
			369	230	70	66	3		
77	Yd	61	Total	C	N	O	S	0	0
			415	256	77	79	3		

- Molecule 78 is a protein called LRH.

Mol	Chain	Residues	Atoms				AltConf	Trace
78	AG	150	Total	C	N	O	0	0
			750	450	150	150		
78	aG	87	Total	C	N	O	0	0
			435	261	87	87		
78	AN	150	Total	C	N	O	0	0
			750	450	150	150		

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Mol	Chain	Residues	Atoms				AltConf	Trace
78	aN	87	Total	C	N	O	0	0
			435	261	87	87		
78	AX	150	Total	C	N	O	0	0
			750	450	150	150		
78	aX	87	Total	C	N	O	0	0
			435	261	87	87		
78	AY	150	Total	C	N	O	0	0
			750	450	150	150		
78	aY	87	Total	C	N	O	0	0
			435	261	87	87		

- Molecule 79 is a protein called R-phycoerythrin gamma chain, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	MH	238	Total	C	N	O	S	0	0
			1841	1131	347	348	15		
79	ZH	238	Total	C	N	O	S	0	0
			1841	1134	344	348	15		
79	Ma	238	Total	C	N	O	S	0	0
			1835	1128	344	348	15		
79	Za	238	Total	C	N	O	S	0	0
			1835	1128	344	348	15		
79	Mf	238	Total	C	N	O	S	0	0
			1835	1128	344	348	15		
79	Zf	238	Total	C	N	O	S	0	0
			1835	1128	344	348	15		
79	Mh	238	Total	C	N	O	S	0	0
			1834	1125	347	347	15		
79	Zh	238	Total	C	N	O	S	0	0
			1851	1140	348	348	15		

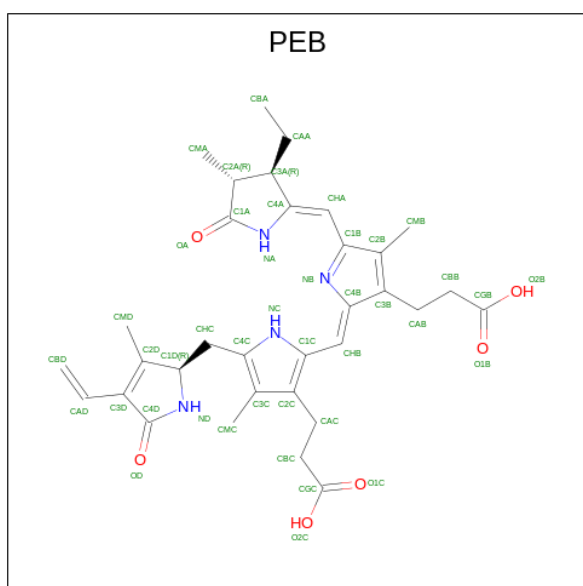
- Molecule 80 is a protein called Phycobilisome 27.9 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	MJ	265	Total	C	N	O	S	0	0
			2076	1308	364	394	10		
80	ZJ	265	Total	C	N	O	S	0	0
			2079	1309	364	396	10		
80	Zk	265	Total	C	N	O	S	0	0
			2079	1309	364	396	10		
80	Mk	265	Total	C	N	O	S	0	0
			2076	1308	364	394	10		

- Molecule 81 is a protein called LR6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
81	YL	372	Total 2796	C 1754	N 478	O 552	S 12	0	0
81	bL	372	Total 2779	C 1742	N 473	O 552	S 12	0	0
81	YU	372	Total 2788	C 1748	N 476	O 552	S 12	0	0
81	bU	372	Total 2760	C 1725	N 473	O 550	S 12	0	0

- Molecule 82 is PHYCOERYTHROBILIN (three-letter code: PEB) (formula: C₃₃H₄₀N₄O₆).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	A1	1	Total 43	C 33	N 4	O 6	0
82	A1	1	Total 43	C 33	N 4	O 6	0
82	D1	1	Total 43	C 33	N 4	O 6	0
82	G1	1	Total 43	C 33	N 4	O 6	0
82	H1	1	Total 43	C 33	N 4	O 6	0
82	K1	1	Total 43	C 33	N 4	O 6	0
82	L1	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	N1	1	43	33	4	6	0
82	O1	1	43	33	4	6	0
82	O1	1	43	33	4	6	0
82	O1	1	43	33	4	6	0
82	P1	1	43	33	4	6	0
82	P1	1	43	33	4	6	0
82	Q1	1	43	33	4	6	0
82	Q1	1	43	33	4	6	0
82	Q1	1	43	33	4	6	0
82	R1	1	43	33	4	6	0
82	R1	1	43	33	4	6	0
82	S1	1	43	33	4	6	0
82	S1	1	43	33	4	6	0
82	S1	1	43	33	4	6	0
82	T1	1	43	33	4	6	0
82	T1	1	43	33	4	6	0
82	U1	1	43	33	4	6	0
82	U1	1	43	33	4	6	0
82	U1	1	43	33	4	6	0
82	V1	1	43	33	4	6	0
82	V1	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	W1	1	43	33	4	6	0
82	W1	1	43	33	4	6	0
82	W1	1	43	33	4	6	0
82	Y1	1	43	33	4	6	0
82	Y1	1	43	33	4	6	0
82	Z1	1	43	33	4	6	0
82	Z1	1	43	33	4	6	0
82	Z1	1	43	33	4	6	0
82	a1	1	43	33	4	6	0
82	a1	1	43	33	4	6	0
82	b1	1	43	33	4	6	0
82	b1	1	43	33	4	6	0
82	c1	1	43	33	4	6	0
82	c1	1	43	33	4	6	0
82	d1	1	43	33	4	6	0
82	d1	1	43	33	4	6	0
82	d1	1	43	33	4	6	0
82	d1	1	43	33	4	6	0
82	e1	1	43	33	4	6	0
82	e1	1	43	33	4	6	0
82	e1	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	f1	1	Total 43	C 33	N 4	O 6	0
82	f1	1	Total 43	C 33	N 4	O 6	0
82	f1	1	Total 43	C 33	N 4	O 6	0
82	g1	1	Total 43	C 33	N 4	O 6	0
82	g1	1	Total 43	C 33	N 4	O 6	0
82	h1	1	Total 43	C 33	N 4	O 6	0
82	h1	1	Total 43	C 33	N 4	O 6	0
82	h1	1	Total 43	C 33	N 4	O 6	0
82	i1	1	Total 43	C 33	N 4	O 6	0
82	i1	1	Total 43	C 33	N 4	O 6	0
82	j1	1	Total 43	C 33	N 4	O 6	0
82	j1	1	Total 43	C 33	N 4	O 6	0
82	k1	1	Total 43	C 33	N 4	O 6	0
82	l1	1	Total 43	C 33	N 4	O 6	0
82	l1	1	Total 43	C 33	N 4	O 6	0
82	l1	1	Total 43	C 33	N 4	O 6	0
82	m1	1	Total 43	C 33	N 4	O 6	0
82	m1	1	Total 43	C 33	N 4	O 6	0
82	m1	1	Total 43	C 33	N 4	O 6	0
82	A2	1	Total 43	C 33	N 4	O 6	0
82	A2	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	A2	1	43	33	4	6	0
82	B2	1	43	33	4	6	0
82	B2	1	43	33	4	6	0
82	B2	1	43	33	4	6	0
82	C2	1	43	33	4	6	0
82	C2	1	43	33	4	6	0
82	D2	1	43	33	4	6	0
82	D2	1	43	33	4	6	0
82	D2	1	43	33	4	6	0
82	E2	1	43	33	4	6	0
82	E2	1	43	33	4	6	0
82	F2	1	43	33	4	6	0
82	F2	1	43	33	4	6	0
82	F2	1	43	33	4	6	0
82	G2	1	43	33	4	6	0
82	G2	1	43	33	4	6	0
82	H2	1	43	33	4	6	0
82	H2	1	43	33	4	6	0
82	H2	1	43	33	4	6	0
82	I2	1	43	33	4	6	0
82	I2	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	J2	1	43	33	4	6	0
82	J2	1	43	33	4	6	0
82	J2	1	43	33	4	6	0
82	K2	1	43	33	4	6	0
82	K2	1	43	33	4	6	0
82	L2	1	43	33	4	6	0
82	L2	1	43	33	4	6	0
82	L2	1	43	33	4	6	0
82	M2	1	43	33	4	6	0
82	M2	1	43	33	4	6	0
82	N2	1	43	33	4	6	0
82	N2	1	43	33	4	6	0
82	N2	1	43	33	4	6	0
82	O2	1	43	33	4	6	0
82	O2	1	43	33	4	6	0
82	P2	1	43	33	4	6	0
82	P2	1	43	33	4	6	0
82	P2	1	43	33	4	6	0
82	Q2	1	43	33	4	6	0
82	Q2	1	43	33	4	6	0
82	R2	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	R2	1	43	33	4	6	0
82	R2	1	43	33	4	6	0
82	S2	1	43	33	4	6	0
82	S2	1	43	33	4	6	0
82	T2	1	43	33	4	6	0
82	T2	1	43	33	4	6	0
82	T2	1	43	33	4	6	0
82	U2	1	43	33	4	6	0
82	U2	1	43	33	4	6	0
82	V2	1	43	33	4	6	0
82	V2	1	43	33	4	6	0
82	V2	1	43	33	4	6	0
82	W2	1	43	33	4	6	0
82	W2	1	43	33	4	6	0
82	X2	1	43	33	4	6	0
82	X2	1	43	33	4	6	0
82	X2	1	43	33	4	6	0
82	Y2	1	43	33	4	6	0
82	Y2	1	43	33	4	6	0
82	A3	1	43	33	4	6	0
82	A3	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	B3	1	43	33	4	6	0
82	C3	1	43	33	4	6	0
82	C3	1	43	33	4	6	0
82	C3	1	43	33	4	6	0
82	D3	1	43	33	4	6	0
82	D3	1	43	33	4	6	0
82	E3	1	43	33	4	6	0
82	E3	1	43	33	4	6	0
82	E3	1	43	33	4	6	0
82	F3	1	43	33	4	6	0
82	F3	1	43	33	4	6	0
82	G3	1	43	33	4	6	0
82	G3	1	43	33	4	6	0
82	G3	1	43	33	4	6	0
82	H3	1	43	33	4	6	0
82	H3	1	43	33	4	6	0
82	I3	1	43	33	4	6	0
82	I3	1	43	33	4	6	0
82	I3	1	43	33	4	6	0
82	J3	1	43	33	4	6	0
82	J3	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	K3	1	Total 43	C 33	N 4	O 6	0
82	K3	1	Total 43	C 33	N 4	O 6	0
82	K3	1	Total 43	C 33	N 4	O 6	0
82	L3	1	Total 43	C 33	N 4	O 6	0
82	L3	1	Total 43	C 33	N 4	O 6	0
82	M3	1	Total 43	C 33	N 4	O 6	0
82	M3	1	Total 43	C 33	N 4	O 6	0
82	M3	1	Total 43	C 33	N 4	O 6	0
82	N3	1	Total 43	C 33	N 4	O 6	0
82	N3	1	Total 43	C 33	N 4	O 6	0
82	O3	1	Total 43	C 33	N 4	O 6	0
82	O3	1	Total 43	C 33	N 4	O 6	0
82	O3	1	Total 43	C 33	N 4	O 6	0
82	P3	1	Total 43	C 33	N 4	O 6	0
82	P3	1	Total 43	C 33	N 4	O 6	0
82	Q3	1	Total 43	C 33	N 4	O 6	0
82	Q3	1	Total 43	C 33	N 4	O 6	0
82	Q3	1	Total 43	C 33	N 4	O 6	0
82	R3	1	Total 43	C 33	N 4	O 6	0
82	R3	1	Total 43	C 33	N 4	O 6	0
82	S3	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	S3	1	Total 43	C 33	N 4	O 6	0
82	S3	1	Total 43	C 33	N 4	O 6	0
82	T3	1	Total 43	C 33	N 4	O 6	0
82	T3	1	Total 43	C 33	N 4	O 6	0
82	U3	1	Total 43	C 33	N 4	O 6	0
82	U3	1	Total 43	C 33	N 4	O 6	0
82	V3	1	Total 43	C 33	N 4	O 6	0
82	V3	1	Total 43	C 33	N 4	O 6	0
82	W3	1	Total 43	C 33	N 4	O 6	0
82	W3	1	Total 43	C 33	N 4	O 6	0
82	W3	1	Total 43	C 33	N 4	O 6	0
82	X3	1	Total 43	C 33	N 4	O 6	0
82	X3	1	Total 43	C 33	N 4	O 6	0
82	Y3	1	Total 43	C 33	N 4	O 6	0
82	Y3	1	Total 43	C 33	N 4	O 6	0
82	Y3	1	Total 43	C 33	N 4	O 6	0
82	Z3	1	Total 43	C 33	N 4	O 6	0
82	Z3	1	Total 43	C 33	N 4	O 6	0
82	a3	1	Total 43	C 33	N 4	O 6	0
82	a3	1	Total 43	C 33	N 4	O 6	0
82	a3	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	a3	1	Total 43	C 33	N 4	O 6	0
82	c3	1	Total 43	C 33	N 4	O 6	0
82	c3	1	Total 43	C 33	N 4	O 6	0
82	d3	1	Total 43	C 33	N 4	O 6	0
82	d3	1	Total 43	C 33	N 4	O 6	0
82	d3	1	Total 43	C 33	N 4	O 6	0
82	e3	1	Total 43	C 33	N 4	O 6	0
82	e3	1	Total 43	C 33	N 4	O 6	0
82	f3	1	Total 43	C 33	N 4	O 6	0
82	f3	1	Total 43	C 33	N 4	O 6	0
82	f3	1	Total 43	C 33	N 4	O 6	0
82	g3	1	Total 43	C 33	N 4	O 6	0
82	g3	1	Total 43	C 33	N 4	O 6	0
82	h3	1	Total 43	C 33	N 4	O 6	0
82	h3	1	Total 43	C 33	N 4	O 6	0
82	h3	1	Total 43	C 33	N 4	O 6	0
82	i3	1	Total 43	C 33	N 4	O 6	0
82	i3	1	Total 43	C 33	N 4	O 6	0
82	j3	1	Total 43	C 33	N 4	O 6	0
82	j3	1	Total 43	C 33	N 4	O 6	0
82	j3	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	k3	1	Total 43	C 33	N 4	O 6	0
82	k3	1	Total 43	C 33	N 4	O 6	0
82	l3	1	Total 43	C 33	N 4	O 6	0
82	l3	1	Total 43	C 33	N 4	O 6	0
82	l3	1	Total 43	C 33	N 4	O 6	0
82	m3	1	Total 43	C 33	N 4	O 6	0
82	m3	1	Total 43	C 33	N 4	O 6	0
82	A4	1	Total 43	C 33	N 4	O 6	0
82	A4	1	Total 43	C 33	N 4	O 6	0
82	A4	1	Total 43	C 33	N 4	O 6	0
82	D4	1	Total 43	C 33	N 4	O 6	0
82	F4	1	Total 43	C 33	N 4	O 6	0
82	H4	1	Total 43	C 33	N 4	O 6	0
82	J4	1	Total 43	C 33	N 4	O 6	0
82	L4	1	Total 43	C 33	N 4	O 6	0
82	N4	1	Total 43	C 33	N 4	O 6	0
82	O4	1	Total 43	C 33	N 4	O 6	0
82	O4	1	Total 43	C 33	N 4	O 6	0
82	P4	1	Total 43	C 33	N 4	O 6	0
82	P4	1	Total 43	C 33	N 4	O 6	0
82	P4	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Q4	1	43	33	4	6	0
82	Q4	1	43	33	4	6	0
82	R4	1	43	33	4	6	0
82	R4	1	43	33	4	6	0
82	R4	1	43	33	4	6	0
82	S4	1	43	33	4	6	0
82	S4	1	43	33	4	6	0
82	T4	1	43	33	4	6	0
82	T4	1	43	33	4	6	0
82	T4	1	43	33	4	6	0
82	U4	1	43	33	4	6	0
82	U4	1	43	33	4	6	0
82	V4	1	43	33	4	6	0
82	V4	1	43	33	4	6	0
82	W4	1	43	33	4	6	0
82	Y4	1	43	33	4	6	0
82	Y4	1	43	33	4	6	0
82	Y4	1	43	33	4	6	0
82	Z4	1	43	33	4	6	0
82	Z4	1	43	33	4	6	0
82	a4	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	a4	1	Total 43	C 33	N 4	O 6	0
82	a4	1	Total 43	C 33	N 4	O 6	0
82	b4	1	Total 43	C 33	N 4	O 6	0
82	b4	1	Total 43	C 33	N 4	O 6	0
82	c4	1	Total 43	C 33	N 4	O 6	0
82	c4	1	Total 43	C 33	N 4	O 6	0
82	c4	1	Total 43	C 33	N 4	O 6	0
82	d4	1	Total 43	C 33	N 4	O 6	0
82	d4	1	Total 43	C 33	N 4	O 6	0
82	e4	1	Total 43	C 33	N 4	O 6	0
82	e4	1	Total 43	C 33	N 4	O 6	0
82	e4	1	Total 43	C 33	N 4	O 6	0
82	f4	1	Total 43	C 33	N 4	O 6	0
82	f4	1	Total 43	C 33	N 4	O 6	0
82	g4	1	Total 43	C 33	N 4	O 6	0
82	g4	1	Total 43	C 33	N 4	O 6	0
82	g4	1	Total 43	C 33	N 4	O 6	0
82	h4	1	Total 43	C 33	N 4	O 6	0
82	h4	1	Total 43	C 33	N 4	O 6	0
82	i4	1	Total 43	C 33	N 4	O 6	0
82	i4	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	i4	1	Total 43	C 33	N 4	O 6	0
82	j4	1	Total 43	C 33	N 4	O 6	0
82	j4	1	Total 43	C 33	N 4	O 6	0
82	k4	1	Total 43	C 33	N 4	O 6	0
82	k4	1	Total 43	C 33	N 4	O 6	0
82	k4	1	Total 43	C 33	N 4	O 6	0
82	l4	1	Total 43	C 33	N 4	O 6	0
82	l4	1	Total 43	C 33	N 4	O 6	0
82	m4	1	Total 43	C 33	N 4	O 6	0
82	m4	1	Total 43	C 33	N 4	O 6	0
82	m4	1	Total 43	C 33	N 4	O 6	0
82	A5	1	Total 43	C 33	N 4	O 6	0
82	A5	1	Total 43	C 33	N 4	O 6	0
82	B5	1	Total 43	C 33	N 4	O 6	0
82	B5	1	Total 43	C 33	N 4	O 6	0
82	B5	1	Total 43	C 33	N 4	O 6	0
82	C5	1	Total 43	C 33	N 4	O 6	0
82	C5	1	Total 43	C 33	N 4	O 6	0
82	D5	1	Total 43	C 33	N 4	O 6	0
82	D5	1	Total 43	C 33	N 4	O 6	0
82	D5	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	E5	1	43	33	4	6	0
82	E5	1	43	33	4	6	0
82	F5	1	43	33	4	6	0
82	F5	1	43	33	4	6	0
82	F5	1	43	33	4	6	0
82	G5	1	43	33	4	6	0
82	G5	1	43	33	4	6	0
82	H5	1	43	33	4	6	0
82	H5	1	43	33	4	6	0
82	H5	1	43	33	4	6	0
82	I5	1	43	33	4	6	0
82	I5	1	43	33	4	6	0
82	J5	1	43	33	4	6	0
82	J5	1	43	33	4	6	0
82	J5	1	43	33	4	6	0
82	K5	1	43	33	4	6	0
82	K5	1	43	33	4	6	0
82	L5	1	43	33	4	6	0
82	L5	1	43	33	4	6	0
82	L5	1	43	33	4	6	0
82	M5	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	M5	1	43	33	4	6	0
82	N5	1	43	33	4	6	0
82	N5	1	43	33	4	6	0
82	N5	1	43	33	4	6	0
82	O5	1	43	33	4	6	0
82	O5	1	43	33	4	6	0
82	P5	1	43	33	4	6	0
82	P5	1	43	33	4	6	0
82	P5	1	43	33	4	6	0
82	Q5	1	43	33	4	6	0
82	Q5	1	43	33	4	6	0
82	R5	1	43	33	4	6	0
82	R5	1	43	33	4	6	0
82	R5	1	43	33	4	6	0
82	S5	1	43	33	4	6	0
82	S5	1	43	33	4	6	0
82	T5	1	43	33	4	6	0
82	T5	1	43	33	4	6	0
82	T5	1	43	33	4	6	0
82	U5	1	43	33	4	6	0
82	U5	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	V5	1	43	33	4	6	0
82	V5	1	43	33	4	6	0
82	V5	1	43	33	4	6	0
82	W5	1	43	33	4	6	0
82	W5	1	43	33	4	6	0
82	X5	1	43	33	4	6	0
82	X5	1	43	33	4	6	0
82	X5	1	43	33	4	6	0
82	Y5	1	43	33	4	6	0
82	Y5	1	43	33	4	6	0
82	Y5	1	43	33	4	6	0
82	e5	1	43	33	4	6	0
82	A6	1	43	33	4	6	0
82	A6	1	43	33	4	6	0
82	B6	1	43	33	4	6	0
82	B6	1	43	33	4	6	0
82	C6	1	43	33	4	6	0
82	C6	1	43	33	4	6	0
82	C6	1	43	33	4	6	0
82	D6	1	43	33	4	6	0
82	D6	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	D6	1	43	33	4	6	0
82	E6	1	43	33	4	6	0
82	E6	1	43	33	4	6	0
82	F6	1	43	33	4	6	0
82	F6	1	43	33	4	6	0
82	G6	1	43	33	4	6	0
82	G6	1	43	33	4	6	0
82	G6	1	43	33	4	6	0
82	H6	1	43	33	4	6	0
82	H6	1	43	33	4	6	0
82	I6	1	43	33	4	6	0
82	I6	1	43	33	4	6	0
82	I6	1	43	33	4	6	0
82	J6	1	43	33	4	6	0
82	J6	1	43	33	4	6	0
82	K6	1	43	33	4	6	0
82	K6	1	43	33	4	6	0
82	K6	1	43	33	4	6	0
82	L6	1	43	33	4	6	0
82	L6	1	43	33	4	6	0
82	M6	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	M6	1	43	33	4	6	0
82	M6	1	43	33	4	6	0
82	N6	1	43	33	4	6	0
82	N6	1	43	33	4	6	0
82	O6	1	43	33	4	6	0
82	O6	1	43	33	4	6	0
82	O6	1	43	33	4	6	0
82	P6	1	43	33	4	6	0
82	P6	1	43	33	4	6	0
82	Q6	1	43	33	4	6	0
82	Q6	1	43	33	4	6	0
82	Q6	1	43	33	4	6	0
82	R6	1	43	33	4	6	0
82	R6	1	43	33	4	6	0
82	S6	1	43	33	4	6	0
82	S6	1	43	33	4	6	0
82	S6	1	43	33	4	6	0
82	T6	1	43	33	4	6	0
82	T6	1	43	33	4	6	0
82	U6	1	43	33	4	6	0
82	U6	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	V6	1	43	33	4	6	0
82	V6	1	43	33	4	6	0
82	W6	1	43	33	4	6	0
82	W6	1	43	33	4	6	0
82	W6	1	43	33	4	6	0
82	X6	1	43	33	4	6	0
82	X6	1	43	33	4	6	0
82	X6	1	43	33	4	6	0
82	Y6	1	43	33	4	6	0
82	Y6	1	43	33	4	6	0
82	Y6	1	43	33	4	6	0
82	Z6	1	43	33	4	6	0
82	Z6	1	43	33	4	6	0
82	a6	1	43	33	4	6	0
82	a6	1	43	33	4	6	0
82	a6	1	43	33	4	6	0
82	b6	1	43	33	4	6	0
82	b6	1	43	33	4	6	0
82	c6	1	43	33	4	6	0
82	c6	1	43	33	4	6	0
82	c6	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	d6	1	Total 43	C 33	N 4	O 6	0
82	d6	1	Total 43	C 33	N 4	O 6	0
82	e6	1	Total 43	C 33	N 4	O 6	0
82	e6	1	Total 43	C 33	N 4	O 6	0
82	e6	1	Total 43	C 33	N 4	O 6	0
82	f6	1	Total 43	C 33	N 4	O 6	0
82	f6	1	Total 43	C 33	N 4	O 6	0
82	g6	1	Total 43	C 33	N 4	O 6	0
82	g6	1	Total 43	C 33	N 4	O 6	0
82	g6	1	Total 43	C 33	N 4	O 6	0
82	h6	1	Total 43	C 33	N 4	O 6	0
82	h6	1	Total 43	C 33	N 4	O 6	0
82	i6	1	Total 43	C 33	N 4	O 6	0
82	i6	1	Total 43	C 33	N 4	O 6	0
82	i6	1	Total 43	C 33	N 4	O 6	0
82	j6	1	Total 43	C 33	N 4	O 6	0
82	j6	1	Total 43	C 33	N 4	O 6	0
82	k6	1	Total 43	C 33	N 4	O 6	0
82	k6	1	Total 43	C 33	N 4	O 6	0
82	k6	1	Total 43	C 33	N 4	O 6	0
82	l6	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	l6	1	Total 43	C 33	N 4	O 6	0
82	l6	1	Total 43	C 33	N 4	O 6	0
82	m6	1	Total 43	C 33	N 4	O 6	0
82	m6	1	Total 43	C 33	N 4	O 6	0
82	n6	1	Total 43	C 33	N 4	O 6	0
82	n6	1	Total 43	C 33	N 4	O 6	0
82	o6	1	Total 43	C 33	N 4	O 6	0
82	o6	1	Total 43	C 33	N 4	O 6	0
82	o6	1	Total 43	C 33	N 4	O 6	0
82	p6	1	Total 43	C 33	N 4	O 6	0
82	p6	1	Total 43	C 33	N 4	O 6	0
82	q6	1	Total 43	C 33	N 4	O 6	0
82	q6	1	Total 43	C 33	N 4	O 6	0
82	q6	1	Total 43	C 33	N 4	O 6	0
82	r6	1	Total 43	C 33	N 4	O 6	0
82	r6	1	Total 43	C 33	N 4	O 6	0
82	s6	1	Total 43	C 33	N 4	O 6	0
82	s6	1	Total 43	C 33	N 4	O 6	0
82	s6	1	Total 43	C 33	N 4	O 6	0
82	t6	1	Total 43	C 33	N 4	O 6	0
82	t6	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	t6	1	43	33	4	6	0
82	u6	1	43	33	4	6	0
82	u6	1	43	33	4	6	0
82	v6	1	43	33	4	6	0
82	v6	1	43	33	4	6	0
82	w6	1	43	33	4	6	0
82	w6	1	43	33	4	6	0
82	w6	1	43	33	4	6	0
82	x6	1	43	33	4	6	0
82	x6	1	43	33	4	6	0
82	x6	1	43	33	4	6	0
82	y6	1	43	33	4	6	0
82	A8	1	43	33	4	6	0
82	A8	1	43	33	4	6	0
82	D8	1	43	33	4	6	0
82	G8	1	43	33	4	6	0
82	H8	1	43	33	4	6	0
82	K8	1	43	33	4	6	0
82	L8	1	43	33	4	6	0
82	N8	1	43	33	4	6	0
82	O8	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	O8	1	43	33	4	6	0
82	O8	1	43	33	4	6	0
82	P8	1	43	33	4	6	0
82	P8	1	43	33	4	6	0
82	Q8	1	43	33	4	6	0
82	Q8	1	43	33	4	6	0
82	Q8	1	43	33	4	6	0
82	R8	1	43	33	4	6	0
82	R8	1	43	33	4	6	0
82	S8	1	43	33	4	6	0
82	S8	1	43	33	4	6	0
82	S8	1	43	33	4	6	0
82	T8	1	43	33	4	6	0
82	U8	1	43	33	4	6	0
82	U8	1	43	33	4	6	0
82	U8	1	43	33	4	6	0
82	V8	1	43	33	4	6	0
82	V8	1	43	33	4	6	0
82	W8	1	43	33	4	6	0
82	W8	1	43	33	4	6	0
82	W8	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Y8	1	43	33	4	6	0
82	Y8	1	43	33	4	6	0
82	Z8	1	43	33	4	6	0
82	Z8	1	43	33	4	6	0
82	Z8	1	43	33	4	6	0
82	a8	1	43	33	4	6	0
82	a8	1	43	33	4	6	0
82	b8	1	43	33	4	6	0
82	b8	1	43	33	4	6	0
82	c8	1	43	33	4	6	0
82	c8	1	43	33	4	6	0
82	d8	1	43	33	4	6	0
82	d8	1	43	33	4	6	0
82	d8	1	43	33	4	6	0
82	d8	1	43	33	4	6	0
82	e8	1	43	33	4	6	0
82	e8	1	43	33	4	6	0
82	e8	1	43	33	4	6	0
82	f8	1	43	33	4	6	0
82	f8	1	43	33	4	6	0
82	f8	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	g8	1	43	33	4	6	0
82	g8	1	43	33	4	6	0
82	h8	1	43	33	4	6	0
82	h8	1	43	33	4	6	0
82	h8	1	43	33	4	6	0
82	i8	1	43	33	4	6	0
82	i8	1	43	33	4	6	0
82	j8	1	43	33	4	6	0
82	j8	1	43	33	4	6	0
82	k8	1	43	33	4	6	0
82	l8	1	43	33	4	6	0
82	l8	1	43	33	4	6	0
82	l8	1	43	33	4	6	0
82	m8	1	43	33	4	6	0
82	m8	1	43	33	4	6	0
82	m8	1	43	33	4	6	0
82	AA	1	43	33	4	6	0
82	BA	1	43	33	4	6	0
82	BA	1	43	33	4	6	0
82	BA	1	43	33	4	6	0
82	CA	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	CA	1	43	33	4	6	0
82	DA	1	43	33	4	6	0
82	DA	1	43	33	4	6	0
82	DA	1	43	33	4	6	0
82	EA	1	43	33	4	6	0
82	FA	1	43	33	4	6	0
82	GA	1	43	33	4	6	0
82	GA	1	43	33	4	6	0
82	GA	1	43	33	4	6	0
82	HA	1	43	33	4	6	0
82	HA	1	43	33	4	6	0
82	HA	1	43	33	4	6	0
82	IA	1	43	33	4	6	0
82	IA	1	43	33	4	6	0
82	IA	1	43	33	4	6	0
82	JA	1	43	33	4	6	0
82	JA	1	43	33	4	6	0
82	KA	1	43	33	4	6	0
82	KA	1	43	33	4	6	0
82	KA	1	43	33	4	6	0
82	KA	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	KA	1	43	33	4	6	0
82	LA	1	43	33	4	6	0
82	MA	1	43	33	4	6	0
82	MA	1	43	33	4	6	0
82	NA	1	43	33	4	6	0
82	NA	1	43	33	4	6	0
82	NA	1	43	33	4	6	0
82	OA	1	43	33	4	6	0
82	PA	1	43	33	4	6	0
82	QA	1	43	33	4	6	0
82	QA	1	43	33	4	6	0
82	QA	1	43	33	4	6	0
82	QA	1	43	33	4	6	0
82	RA	1	43	33	4	6	0
82	RA	1	43	33	4	6	0
82	SA	1	43	33	4	6	0
82	SA	1	43	33	4	6	0
82	SA	1	43	33	4	6	0
82	TA	1	43	33	4	6	0
82	TA	1	43	33	4	6	0
82	UA	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	UA	1	43	33	4	6	0
82	UA	1	43	33	4	6	0
82	VA	1	43	33	4	6	0
82	WA	1	43	33	4	6	0
82	WA	1	43	33	4	6	0
82	XA	1	43	33	4	6	0
82	XA	1	43	33	4	6	0
82	YA	1	43	33	4	6	0
82	YA	1	43	33	4	6	0
82	ZA	1	43	33	4	6	0
82	ZA	1	43	33	4	6	0
82	ZA	1	43	33	4	6	0
82	aA	1	43	33	4	6	0
82	aA	1	43	33	4	6	0
82	aA	1	43	33	4	6	0
82	bA	1	43	33	4	6	0
82	cA	1	43	33	4	6	0
82	cA	1	43	33	4	6	0
82	cA	1	43	33	4	6	0
82	dA	1	43	33	4	6	0
82	dA	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	eA	1	43	33	4	6	0
82	fA	1	43	33	4	6	0
82	gA	1	43	33	4	6	0
82	gA	1	43	33	4	6	0
82	gA	1	43	33	4	6	0
82	hA	1	43	33	4	6	0
82	AC	1	43	33	4	6	0
82	AC	1	43	33	4	6	0
82	BC	1	43	33	4	6	0
82	CC	1	43	33	4	6	0
82	CC	1	43	33	4	6	0
82	CC	1	43	33	4	6	0
82	DC	1	43	33	4	6	0
82	DC	1	43	33	4	6	0
82	EC	1	43	33	4	6	0
82	EC	1	43	33	4	6	0
82	EC	1	43	33	4	6	0
82	FC	1	43	33	4	6	0
82	FC	1	43	33	4	6	0
82	GC	1	43	33	4	6	0
82	GC	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	GC	1	43	33	4	6	0
82	HC	1	43	33	4	6	0
82	HC	1	43	33	4	6	0
82	IC	1	43	33	4	6	0
82	IC	1	43	33	4	6	0
82	IC	1	43	33	4	6	0
82	JC	1	43	33	4	6	0
82	JC	1	43	33	4	6	0
82	KC	1	43	33	4	6	0
82	KC	1	43	33	4	6	0
82	KC	1	43	33	4	6	0
82	LC	1	43	33	4	6	0
82	LC	1	43	33	4	6	0
82	MC	1	43	33	4	6	0
82	MC	1	43	33	4	6	0
82	MC	1	43	33	4	6	0
82	NC	1	43	33	4	6	0
82	NC	1	43	33	4	6	0
82	OC	1	43	33	4	6	0
82	OC	1	43	33	4	6	0
82	OC	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	PC	1	43	33	4	6	0
82	PC	1	43	33	4	6	0
82	QC	1	43	33	4	6	0
82	QC	1	43	33	4	6	0
82	QC	1	43	33	4	6	0
82	RC	1	43	33	4	6	0
82	RC	1	43	33	4	6	0
82	SC	1	43	33	4	6	0
82	SC	1	43	33	4	6	0
82	SC	1	43	33	4	6	0
82	TC	1	43	33	4	6	0
82	TC	1	43	33	4	6	0
82	UC	1	43	33	4	6	0
82	UC	1	43	33	4	6	0
82	VC	1	43	33	4	6	0
82	VC	1	43	33	4	6	0
82	WC	1	43	33	4	6	0
82	WC	1	43	33	4	6	0
82	WC	1	43	33	4	6	0
82	XC	1	43	33	4	6	0
82	XC	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	YC	1	43	33	4	6	0
82	YC	1	43	33	4	6	0
82	YC	1	43	33	4	6	0
82	ZC	1	43	33	4	6	0
82	ZC	1	43	33	4	6	0
82	aC	1	43	33	4	6	0
82	aC	1	43	33	4	6	0
82	aC	1	43	33	4	6	0
82	aC	1	43	33	4	6	0
82	cC	1	43	33	4	6	0
82	cC	1	43	33	4	6	0
82	dC	1	43	33	4	6	0
82	dC	1	43	33	4	6	0
82	dC	1	43	33	4	6	0
82	eC	1	43	33	4	6	0
82	eC	1	43	33	4	6	0
82	fC	1	43	33	4	6	0
82	fC	1	43	33	4	6	0
82	fC	1	43	33	4	6	0
82	gC	1	43	33	4	6	0
82	gC	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	hC	1	43	33	4	6	0
82	hC	1	43	33	4	6	0
82	hC	1	43	33	4	6	0
82	iC	1	43	33	4	6	0
82	iC	1	43	33	4	6	0
82	jC	1	43	33	4	6	0
82	jC	1	43	33	4	6	0
82	jC	1	43	33	4	6	0
82	kC	1	43	33	4	6	0
82	kC	1	43	33	4	6	0
82	lC	1	43	33	4	6	0
82	lC	1	43	33	4	6	0
82	lC	1	43	33	4	6	0
82	mC	1	43	33	4	6	0
82	mC	1	43	33	4	6	0
82	AD	1	43	33	4	6	0
82	AD	1	43	33	4	6	0
82	BD	1	43	33	4	6	0
82	BD	1	43	33	4	6	0
82	BD	1	43	33	4	6	0
82	CD	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	CD	1	43	33	4	6	0
82	DD	1	43	33	4	6	0
82	DD	1	43	33	4	6	0
82	DD	1	43	33	4	6	0
82	ED	1	43	33	4	6	0
82	ED	1	43	33	4	6	0
82	FD	1	43	33	4	6	0
82	FD	1	43	33	4	6	0
82	FD	1	43	33	4	6	0
82	GD	1	43	33	4	6	0
82	GD	1	43	33	4	6	0
82	HD	1	43	33	4	6	0
82	HD	1	43	33	4	6	0
82	HD	1	43	33	4	6	0
82	ID	1	43	33	4	6	0
82	ID	1	43	33	4	6	0
82	JD	1	43	33	4	6	0
82	JD	1	43	33	4	6	0
82	JD	1	43	33	4	6	0
82	KD	1	43	33	4	6	0
82	KD	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	LD	1	43	33	4	6	0
82	LD	1	43	33	4	6	0
82	LD	1	43	33	4	6	0
82	MD	1	43	33	4	6	0
82	MD	1	43	33	4	6	0
82	ND	1	43	33	4	6	0
82	ND	1	43	33	4	6	0
82	ND	1	43	33	4	6	0
82	OD	1	43	33	4	6	0
82	OD	1	43	33	4	6	0
82	PD	1	43	33	4	6	0
82	PD	1	43	33	4	6	0
82	PD	1	43	33	4	6	0
82	QD	1	43	33	4	6	0
82	QD	1	43	33	4	6	0
82	RD	1	43	33	4	6	0
82	RD	1	43	33	4	6	0
82	RD	1	43	33	4	6	0
82	SD	1	43	33	4	6	0
82	SD	1	43	33	4	6	0
82	TD	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	TD	1	43	33	4	6	0
82	TD	1	43	33	4	6	0
82	UD	1	43	33	4	6	0
82	UD	1	43	33	4	6	0
82	VD	1	43	33	4	6	0
82	VD	1	43	33	4	6	0
82	VD	1	43	33	4	6	0
82	WD	1	43	33	4	6	0
82	WD	1	43	33	4	6	0
82	XD	1	43	33	4	6	0
82	XD	1	43	33	4	6	0
82	XD	1	43	33	4	6	0
82	YD	1	43	33	4	6	0
82	YD	1	43	33	4	6	0
82	YD	1	43	33	4	6	0
82	eD	1	43	33	4	6	0
82	AF	1	43	33	4	6	0
82	AF	1	43	33	4	6	0
82	AF	1	43	33	4	6	0
82	BF	1	43	33	4	6	0
82	BF	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	BF	1	Total 43	C 33	N 4	O 6	0
82	CF	1	Total 43	C 33	N 4	O 6	0
82	CF	1	Total 43	C 33	N 4	O 6	0
82	DF	1	Total 43	C 33	N 4	O 6	0
82	DF	1	Total 43	C 33	N 4	O 6	0
82	DF	1	Total 43	C 33	N 4	O 6	0
82	EF	1	Total 43	C 33	N 4	O 6	0
82	EF	1	Total 43	C 33	N 4	O 6	0
82	FF	1	Total 43	C 33	N 4	O 6	0
82	FF	1	Total 43	C 33	N 4	O 6	0
82	FF	1	Total 43	C 33	N 4	O 6	0
82	GF	1	Total 43	C 33	N 4	O 6	0
82	GF	1	Total 43	C 33	N 4	O 6	0
82	HF	1	Total 43	C 33	N 4	O 6	0
82	HF	1	Total 43	C 33	N 4	O 6	0
82	HF	1	Total 43	C 33	N 4	O 6	0
82	IF	1	Total 43	C 33	N 4	O 6	0
82	IF	1	Total 43	C 33	N 4	O 6	0
82	JF	1	Total 43	C 33	N 4	O 6	0
82	JF	1	Total 43	C 33	N 4	O 6	0
82	JF	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	KF	1	43	33	4	6	0
82	KF	1	43	33	4	6	0
82	LF	1	43	33	4	6	0
82	LF	1	43	33	4	6	0
82	LF	1	43	33	4	6	0
82	MF	1	43	33	4	6	0
82	MF	1	43	33	4	6	0
82	NF	1	43	33	4	6	0
82	NF	1	43	33	4	6	0
82	NF	1	43	33	4	6	0
82	OF	1	43	33	4	6	0
82	OF	1	43	33	4	6	0
82	PF	1	43	33	4	6	0
82	PF	1	43	33	4	6	0
82	PF	1	43	33	4	6	0
82	QF	1	43	33	4	6	0
82	QF	1	43	33	4	6	0
82	RF	1	43	33	4	6	0
82	RF	1	43	33	4	6	0
82	RF	1	43	33	4	6	0
82	SF	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	SF	1	43	33	4	6	0
82	TF	1	43	33	4	6	0
82	TF	1	43	33	4	6	0
82	TF	1	43	33	4	6	0
82	UF	1	43	33	4	6	0
82	UF	1	43	33	4	6	0
82	VF	1	43	33	4	6	0
82	VF	1	43	33	4	6	0
82	VF	1	43	33	4	6	0
82	WF	1	43	33	4	6	0
82	WF	1	43	33	4	6	0
82	XF	1	43	33	4	6	0
82	XF	1	43	33	4	6	0
82	XF	1	43	33	4	6	0
82	YF	1	43	33	4	6	0
82	YF	1	43	33	4	6	0
82	1G	1	43	33	4	6	0
82	1G	1	43	33	4	6	0
82	1G	1	43	33	4	6	0
82	pG	1	43	33	4	6	0
82	pG	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	qG	1	43	33	4	6	0
82	qG	1	43	33	4	6	0
82	qG	1	43	33	4	6	0
82	rG	1	43	33	4	6	0
82	rG	1	43	33	4	6	0
82	sG	1	43	33	4	6	0
82	sG	1	43	33	4	6	0
82	sG	1	43	33	4	6	0
82	tG	1	43	33	4	6	0
82	tG	1	43	33	4	6	0
82	uG	1	43	33	4	6	0
82	uG	1	43	33	4	6	0
82	uG	1	43	33	4	6	0
82	vG	1	43	33	4	6	0
82	vG	1	43	33	4	6	0
82	wG	1	43	33	4	6	0
82	wG	1	43	33	4	6	0
82	wG	1	43	33	4	6	0
82	wG	1	43	33	4	6	0
82	xG	1	43	33	4	6	0
82	xG	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	yG	1	43	33	4	6	0
82	yG	1	43	33	4	6	0
82	yG	1	43	33	4	6	0
82	zG	1	43	33	4	6	0
82	zG	1	43	33	4	6	0
82	AH	1	43	33	4	6	0
82	AH	1	43	33	4	6	0
82	BH	1	43	33	4	6	0
82	BH	1	43	33	4	6	0
82	BH	1	43	33	4	6	0
82	CH	1	43	33	4	6	0
82	CH	1	43	33	4	6	0
82	DH	1	43	33	4	6	0
82	DH	1	43	33	4	6	0
82	DH	1	43	33	4	6	0
82	EH	1	43	33	4	6	0
82	EH	1	43	33	4	6	0
82	FH	1	43	33	4	6	0
82	FH	1	43	33	4	6	0
82	FH	1	43	33	4	6	0
82	GH	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	GH	1	43	33	4	6	0
82	HH	1	43	33	4	6	0
82	HH	1	43	33	4	6	0
82	HH	1	43	33	4	6	0
82	IH	1	43	33	4	6	0
82	IH	1	43	33	4	6	0
82	JH	1	43	33	4	6	0
82	JH	1	43	33	4	6	0
82	JH	1	43	33	4	6	0
82	KH	1	43	33	4	6	0
82	KH	1	43	33	4	6	0
82	LH	1	43	33	4	6	0
82	LH	1	43	33	4	6	0
82	LH	1	43	33	4	6	0
82	MH	1	43	33	4	6	0
82	MH	1	43	33	4	6	0
82	MH	1	43	33	4	6	0
82	NH	1	43	33	4	6	0
82	NH	1	43	33	4	6	0
82	OH	1	43	33	4	6	0
82	OH	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	OH	1	43	33	4	6	0
82	PH	1	43	33	4	6	0
82	PH	1	43	33	4	6	0
82	QH	1	43	33	4	6	0
82	QH	1	43	33	4	6	0
82	QH	1	43	33	4	6	0
82	RH	1	43	33	4	6	0
82	RH	1	43	33	4	6	0
82	SH	1	43	33	4	6	0
82	SH	1	43	33	4	6	0
82	SH	1	43	33	4	6	0
82	TH	1	43	33	4	6	0
82	TH	1	43	33	4	6	0
82	UH	1	43	33	4	6	0
82	UH	1	43	33	4	6	0
82	UH	1	43	33	4	6	0
82	VH	1	43	33	4	6	0
82	VH	1	43	33	4	6	0
82	WH	1	43	33	4	6	0
82	WH	1	43	33	4	6	0
82	WH	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	XH	1	43	33	4	6	0
82	XH	1	43	33	4	6	0
82	YH	1	43	33	4	6	0
82	YH	1	43	33	4	6	0
82	YH	1	43	33	4	6	0
82	ZH	1	43	33	4	6	0
82	ZH	1	43	33	4	6	0
82	ZH	1	43	33	4	6	0
82	AI	1	43	33	4	6	0
82	AI	1	43	33	4	6	0
82	AI	1	43	33	4	6	0
82	DI	1	43	33	4	6	0
82	FI	1	43	33	4	6	0
82	HI	1	43	33	4	6	0
82	JI	1	43	33	4	6	0
82	LI	1	43	33	4	6	0
82	NI	1	43	33	4	6	0
82	OI	1	43	33	4	6	0
82	OI	1	43	33	4	6	0
82	OI	1	43	33	4	6	0
82	PI	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	PI	1	43	33	4	6	0
82	QI	1	43	33	4	6	0
82	QI	1	43	33	4	6	0
82	QI	1	43	33	4	6	0
82	RI	1	43	33	4	6	0
82	RI	1	43	33	4	6	0
82	SI	1	43	33	4	6	0
82	SI	1	43	33	4	6	0
82	TI	1	43	33	4	6	0
82	TI	1	43	33	4	6	0
82	UI	1	43	33	4	6	0
82	UI	1	43	33	4	6	0
82	UI	1	43	33	4	6	0
82	VI	1	43	33	4	6	0
82	VI	1	43	33	4	6	0
82	VI	1	43	33	4	6	0
82	WI	1	43	33	4	6	0
82	WI	1	43	33	4	6	0
82	WI	1	43	33	4	6	0
82	YI	1	43	33	4	6	0
82	YI	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	ZI	1	43	33	4	6	0
82	ZI	1	43	33	4	6	0
82	ZI	1	43	33	4	6	0
82	aI	1	43	33	4	6	0
82	aI	1	43	33	4	6	0
82	bI	1	43	33	4	6	0
82	bI	1	43	33	4	6	0
82	bI	1	43	33	4	6	0
82	cI	1	43	33	4	6	0
82	cI	1	43	33	4	6	0
82	dI	1	43	33	4	6	0
82	dI	1	43	33	4	6	0
82	dI	1	43	33	4	6	0
82	eI	1	43	33	4	6	0
82	eI	1	43	33	4	6	0
82	fI	1	43	33	4	6	0
82	fI	1	43	33	4	6	0
82	fI	1	43	33	4	6	0
82	gI	1	43	33	4	6	0
82	gI	1	43	33	4	6	0
82	hI	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	hI	1	43	33	4	6	0
82	hI	1	43	33	4	6	0
82	iI	1	43	33	4	6	0
82	iI	1	43	33	4	6	0
82	jI	1	43	33	4	6	0
82	jI	1	43	33	4	6	0
82	jI	1	43	33	4	6	0
82	kI	1	43	33	4	6	0
82	kI	1	43	33	4	6	0
82	lI	1	43	33	4	6	0
82	lI	1	43	33	4	6	0
82	lI	1	43	33	4	6	0
82	mI	1	43	33	4	6	0
82	mI	1	43	33	4	6	0
82	AJ	1	43	33	4	6	0
82	AJ	1	43	33	4	6	0
82	AJ	1	43	33	4	6	0
82	BJ	1	43	33	4	6	0
82	BJ	1	43	33	4	6	0
82	BJ	1	43	33	4	6	0
82	CJ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	CJ	1	43	33	4	6	0
82	DJ	1	43	33	4	6	0
82	DJ	1	43	33	4	6	0
82	EJ	1	43	33	4	6	0
82	EJ	1	43	33	4	6	0
82	FJ	1	43	33	4	6	0
82	FJ	1	43	33	4	6	0
82	GJ	1	43	33	4	6	0
82	GJ	1	43	33	4	6	0
82	GJ	1	43	33	4	6	0
82	HJ	1	43	33	4	6	0
82	HJ	1	43	33	4	6	0
82	HJ	1	43	33	4	6	0
82	IJ	1	43	33	4	6	0
82	IJ	1	43	33	4	6	0
82	IJ	1	43	33	4	6	0
82	JJ	1	43	33	4	6	0
82	JJ	1	43	33	4	6	0
82	KJ	1	43	33	4	6	0
82	KJ	1	43	33	4	6	0
82	KJ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	LJ	1	43	33	4	6	0
82	LJ	1	43	33	4	6	0
82	NJ	1	43	33	4	6	0
82	NJ	1	43	33	4	6	0
82	NJ	1	43	33	4	6	0
82	OJ	1	43	33	4	6	0
82	OJ	1	43	33	4	6	0
82	OJ	1	43	33	4	6	0
82	PJ	1	43	33	4	6	0
82	PJ	1	43	33	4	6	0
82	QJ	1	43	33	4	6	0
82	QJ	1	43	33	4	6	0
82	RJ	1	43	33	4	6	0
82	RJ	1	43	33	4	6	0
82	RJ	1	43	33	4	6	0
82	SJ	1	43	33	4	6	0
82	SJ	1	43	33	4	6	0
82	TJ	1	43	33	4	6	0
82	TJ	1	43	33	4	6	0
82	TJ	1	43	33	4	6	0
82	UJ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	UJ	1	43	33	4	6	0
82	VJ	1	43	33	4	6	0
82	VJ	1	43	33	4	6	0
82	VJ	1	43	33	4	6	0
82	WJ	1	43	33	4	6	0
82	WJ	1	43	33	4	6	0
82	WJ	1	43	33	4	6	0
82	XJ	1	43	33	4	6	0
82	XJ	1	43	33	4	6	0
82	YJ	1	43	33	4	6	0
82	YJ	1	43	33	4	6	0
82	ZJ	1	43	33	4	6	0
82	AK	1	43	33	4	6	0
82	AK	1	43	33	4	6	0
82	DK	1	43	33	4	6	0
82	GK	1	43	33	4	6	0
82	HK	1	43	33	4	6	0
82	KK	1	43	33	4	6	0
82	LK	1	43	33	4	6	0
82	NK	1	43	33	4	6	0
82	OK	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	OK	1	Total 43	C 33	N 4	O 6	0
82	OK	1	Total 43	C 33	N 4	O 6	0
82	PK	1	Total 43	C 33	N 4	O 6	0
82	PK	1	Total 43	C 33	N 4	O 6	0
82	QK	1	Total 43	C 33	N 4	O 6	0
82	QK	1	Total 43	C 33	N 4	O 6	0
82	QK	1	Total 43	C 33	N 4	O 6	0
82	RK	1	Total 43	C 33	N 4	O 6	0
82	RK	1	Total 43	C 33	N 4	O 6	0
82	SK	1	Total 43	C 33	N 4	O 6	0
82	SK	1	Total 43	C 33	N 4	O 6	0
82	TK	1	Total 43	C 33	N 4	O 6	0
82	TK	1	Total 43	C 33	N 4	O 6	0
82	UK	1	Total 43	C 33	N 4	O 6	0
82	UK	1	Total 43	C 33	N 4	O 6	0
82	UK	1	Total 43	C 33	N 4	O 6	0
82	VK	1	Total 43	C 33	N 4	O 6	0
82	VK	1	Total 43	C 33	N 4	O 6	0
82	WK	1	Total 43	C 33	N 4	O 6	0
82	WK	1	Total 43	C 33	N 4	O 6	0
82	WK	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	YK	1	43	33	4	6	0
82	YK	1	43	33	4	6	0
82	ZK	1	43	33	4	6	0
82	ZK	1	43	33	4	6	0
82	ZK	1	43	33	4	6	0
82	aK	1	43	33	4	6	0
82	aK	1	43	33	4	6	0
82	bK	1	43	33	4	6	0
82	bK	1	43	33	4	6	0
82	cK	1	43	33	4	6	0
82	cK	1	43	33	4	6	0
82	dK	1	43	33	4	6	0
82	dK	1	43	33	4	6	0
82	dK	1	43	33	4	6	0
82	dK	1	43	33	4	6	0
82	eK	1	43	33	4	6	0
82	eK	1	43	33	4	6	0
82	eK	1	43	33	4	6	0
82	fK	1	43	33	4	6	0
82	fK	1	43	33	4	6	0
82	fK	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	gK	1	43	33	4	6	0
82	gK	1	43	33	4	6	0
82	hK	1	43	33	4	6	0
82	hK	1	43	33	4	6	0
82	hK	1	43	33	4	6	0
82	iK	1	43	33	4	6	0
82	iK	1	43	33	4	6	0
82	jK	1	43	33	4	6	0
82	jK	1	43	33	4	6	0
82	kK	1	43	33	4	6	0
82	kK	1	43	33	4	6	0
82	lK	1	43	33	4	6	0
82	lK	1	43	33	4	6	0
82	lK	1	43	33	4	6	0
82	mK	1	43	33	4	6	0
82	mK	1	43	33	4	6	0
82	mK	1	43	33	4	6	0
82	AL	1	43	33	4	6	0
82	AL	1	43	33	4	6	0
82	AL	1	43	33	4	6	0
82	BL	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	BL	1	43	33	4	6	0
82	CL	1	43	33	4	6	0
82	CL	1	43	33	4	6	0
82	CL	1	43	33	4	6	0
82	DL	1	43	33	4	6	0
82	DL	1	43	33	4	6	0
82	EL	1	43	33	4	6	0
82	EL	1	43	33	4	6	0
82	EL	1	43	33	4	6	0
82	FL	1	43	33	4	6	0
82	FL	1	43	33	4	6	0
82	GL	1	43	33	4	6	0
82	GL	1	43	33	4	6	0
82	GL	1	43	33	4	6	0
82	HL	1	43	33	4	6	0
82	HL	1	43	33	4	6	0
82	IL	1	43	33	4	6	0
82	IL	1	43	33	4	6	0
82	IL	1	43	33	4	6	0
82	JL	1	43	33	4	6	0
82	JL	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	KL	1	43	33	4	6	0
82	KL	1	43	33	4	6	0
82	LL	1	43	33	4	6	0
82	LL	1	43	33	4	6	0
82	ML	1	43	33	4	6	0
82	ML	1	43	33	4	6	0
82	ML	1	43	33	4	6	0
82	NL	1	43	33	4	6	0
82	NL	1	43	33	4	6	0
82	OL	1	43	33	4	6	0
82	OL	1	43	33	4	6	0
82	OL	1	43	33	4	6	0
82	PL	1	43	33	4	6	0
82	PL	1	43	33	4	6	0
82	QL	1	43	33	4	6	0
82	QL	1	43	33	4	6	0
82	QL	1	43	33	4	6	0
82	RL	1	43	33	4	6	0
82	RL	1	43	33	4	6	0
82	SL	1	43	33	4	6	0
82	SL	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	SL	1	43	33	4	6	0
82	TL	1	43	33	4	6	0
82	TL	1	43	33	4	6	0
82	UL	1	43	33	4	6	0
82	UL	1	43	33	4	6	0
82	UL	1	43	33	4	6	0
82	VL	1	43	33	4	6	0
82	VL	1	43	33	4	6	0
82	WL	1	43	33	4	6	0
82	WL	1	43	33	4	6	0
82	XL	1	43	33	4	6	0
82	XL	1	43	33	4	6	0
82	YL	1	43	33	4	6	0
82	YL	1	43	33	4	6	0
82	YL	1	43	33	4	6	0
82	bL	1	43	33	4	6	0
82	bL	1	43	33	4	6	0
82	AM	1	43	33	4	6	0
82	AM	1	43	33	4	6	0
82	AM	1	43	33	4	6	0
82	BM	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	BM	1	43	33	4	6	0
82	BM	1	43	33	4	6	0
82	CM	1	43	33	4	6	0
82	CM	1	43	33	4	6	0
82	DM	1	43	33	4	6	0
82	DM	1	43	33	4	6	0
82	DM	1	43	33	4	6	0
82	EM	1	43	33	4	6	0
82	EM	1	43	33	4	6	0
82	FM	1	43	33	4	6	0
82	FM	1	43	33	4	6	0
82	FM	1	43	33	4	6	0
82	GM	1	43	33	4	6	0
82	GM	1	43	33	4	6	0
82	HM	1	43	33	4	6	0
82	HM	1	43	33	4	6	0
82	HM	1	43	33	4	6	0
82	IM	1	43	33	4	6	0
82	IM	1	43	33	4	6	0
82	JM	1	43	33	4	6	0
82	JM	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	JM	1	43	33	4	6	0
82	KM	1	43	33	4	6	0
82	KM	1	43	33	4	6	0
82	LM	1	43	33	4	6	0
82	LM	1	43	33	4	6	0
82	LM	1	43	33	4	6	0
82	MM	1	43	33	4	6	0
82	MM	1	43	33	4	6	0
82	NM	1	43	33	4	6	0
82	NM	1	43	33	4	6	0
82	NM	1	43	33	4	6	0
82	OM	1	43	33	4	6	0
82	OM	1	43	33	4	6	0
82	PM	1	43	33	4	6	0
82	PM	1	43	33	4	6	0
82	PM	1	43	33	4	6	0
82	QM	1	43	33	4	6	0
82	QM	1	43	33	4	6	0
82	RM	1	43	33	4	6	0
82	RM	1	43	33	4	6	0
82	RM	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	SM	1	43	33	4	6	0
82	SM	1	43	33	4	6	0
82	TM	1	43	33	4	6	0
82	TM	1	43	33	4	6	0
82	TM	1	43	33	4	6	0
82	UM	1	43	33	4	6	0
82	UM	1	43	33	4	6	0
82	VM	1	43	33	4	6	0
82	VM	1	43	33	4	6	0
82	VM	1	43	33	4	6	0
82	WM	1	43	33	4	6	0
82	WM	1	43	33	4	6	0
82	XM	1	43	33	4	6	0
82	XM	1	43	33	4	6	0
82	XM	1	43	33	4	6	0
82	YM	1	43	33	4	6	0
82	YM	1	43	33	4	6	0
82	yN	1	43	33	4	6	0
82	yN	1	43	33	4	6	0
82	yN	1	43	33	4	6	0
82	zN	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	zN	1	43	33	4	6	0
82	1N	1	43	33	4	6	0
82	1N	1	43	33	4	6	0
82	1N	1	43	33	4	6	0
82	pN	1	43	33	4	6	0
82	pN	1	43	33	4	6	0
82	qN	1	43	33	4	6	0
82	qN	1	43	33	4	6	0
82	qN	1	43	33	4	6	0
82	rN	1	43	33	4	6	0
82	rN	1	43	33	4	6	0
82	sN	1	43	33	4	6	0
82	sN	1	43	33	4	6	0
82	sN	1	43	33	4	6	0
82	tN	1	43	33	4	6	0
82	tN	1	43	33	4	6	0
82	uN	1	43	33	4	6	0
82	uN	1	43	33	4	6	0
82	uN	1	43	33	4	6	0
82	vN	1	43	33	4	6	0
82	wN	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	wN	1	43	33	4	6	0
82	wN	1	43	33	4	6	0
82	wN	1	43	33	4	6	0
82	xN	1	43	33	4	6	0
82	xN	1	43	33	4	6	0
82	AP	1	43	33	4	6	0
82	AP	1	43	33	4	6	0
82	AP	1	43	33	4	6	0
82	DP	1	43	33	4	6	0
82	FP	1	43	33	4	6	0
82	HP	1	43	33	4	6	0
82	JP	1	43	33	4	6	0
82	LP	1	43	33	4	6	0
82	NP	1	43	33	4	6	0
82	OP	1	43	33	4	6	0
82	OP	1	43	33	4	6	0
82	OP	1	43	33	4	6	0
82	PP	1	43	33	4	6	0
82	PP	1	43	33	4	6	0
82	QP	1	43	33	4	6	0
82	QP	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	QP	1	Total 43	C 33	N 4	O 6	0
82	RP	1	Total 43	C 33	N 4	O 6	0
82	RP	1	Total 43	C 33	N 4	O 6	0
82	SP	1	Total 43	C 33	N 4	O 6	0
82	SP	1	Total 43	C 33	N 4	O 6	0
82	TP	1	Total 43	C 33	N 4	O 6	0
82	TP	1	Total 43	C 33	N 4	O 6	0
82	UP	1	Total 43	C 33	N 4	O 6	0
82	UP	1	Total 43	C 33	N 4	O 6	0
82	UP	1	Total 43	C 33	N 4	O 6	0
82	VP	1	Total 43	C 33	N 4	O 6	0
82	VP	1	Total 43	C 33	N 4	O 6	0
82	VP	1	Total 43	C 33	N 4	O 6	0
82	WP	1	Total 43	C 33	N 4	O 6	0
82	WP	1	Total 43	C 33	N 4	O 6	0
82	WP	1	Total 43	C 33	N 4	O 6	0
82	YP	1	Total 43	C 33	N 4	O 6	0
82	YP	1	Total 43	C 33	N 4	O 6	0
82	ZP	1	Total 43	C 33	N 4	O 6	0
82	ZP	1	Total 43	C 33	N 4	O 6	0
82	ZP	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	aP	1	43	33	4	6	0
82	aP	1	43	33	4	6	0
82	bP	1	43	33	4	6	0
82	bP	1	43	33	4	6	0
82	cP	1	43	33	4	6	0
82	cP	1	43	33	4	6	0
82	dP	1	43	33	4	6	0
82	dP	1	43	33	4	6	0
82	dP	1	43	33	4	6	0
82	eP	1	43	33	4	6	0
82	eP	1	43	33	4	6	0
82	eP	1	43	33	4	6	0
82	fP	1	43	33	4	6	0
82	fP	1	43	33	4	6	0
82	fP	1	43	33	4	6	0
82	gP	1	43	33	4	6	0
82	gP	1	43	33	4	6	0
82	gP	1	43	33	4	6	0
82	hP	1	43	33	4	6	0
82	hP	1	43	33	4	6	0
82	iP	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	iP	1	43	33	4	6	0
82	jP	1	43	33	4	6	0
82	jP	1	43	33	4	6	0
82	jP	1	43	33	4	6	0
82	kP	1	43	33	4	6	0
82	kP	1	43	33	4	6	0
82	lP	1	43	33	4	6	0
82	lP	1	43	33	4	6	0
82	lP	1	43	33	4	6	0
82	mP	1	43	33	4	6	0
82	mP	1	43	33	4	6	0
82	AQ	1	43	33	4	6	0
82	AQ	1	43	33	4	6	0
82	BQ	1	43	33	4	6	0
82	BQ	1	43	33	4	6	0
82	CQ	1	43	33	4	6	0
82	CQ	1	43	33	4	6	0
82	CQ	1	43	33	4	6	0
82	DQ	1	43	33	4	6	0
82	DQ	1	43	33	4	6	0
82	DQ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	EQ	1	43	33	4	6	0
82	EQ	1	43	33	4	6	0
82	FQ	1	43	33	4	6	0
82	FQ	1	43	33	4	6	0
82	GQ	1	43	33	4	6	0
82	GQ	1	43	33	4	6	0
82	GQ	1	43	33	4	6	0
82	HQ	1	43	33	4	6	0
82	HQ	1	43	33	4	6	0
82	IQ	1	43	33	4	6	0
82	IQ	1	43	33	4	6	0
82	IQ	1	43	33	4	6	0
82	JQ	1	43	33	4	6	0
82	JQ	1	43	33	4	6	0
82	KQ	1	43	33	4	6	0
82	KQ	1	43	33	4	6	0
82	KQ	1	43	33	4	6	0
82	LQ	1	43	33	4	6	0
82	LQ	1	43	33	4	6	0
82	MQ	1	43	33	4	6	0
82	MQ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	MQ	1	43	33	4	6	0
82	NQ	1	43	33	4	6	0
82	NQ	1	43	33	4	6	0
82	OQ	1	43	33	4	6	0
82	OQ	1	43	33	4	6	0
82	OQ	1	43	33	4	6	0
82	PQ	1	43	33	4	6	0
82	PQ	1	43	33	4	6	0
82	QQ	1	43	33	4	6	0
82	QQ	1	43	33	4	6	0
82	QQ	1	43	33	4	6	0
82	RQ	1	43	33	4	6	0
82	RQ	1	43	33	4	6	0
82	SQ	1	43	33	4	6	0
82	SQ	1	43	33	4	6	0
82	SQ	1	43	33	4	6	0
82	TQ	1	43	33	4	6	0
82	TQ	1	43	33	4	6	0
82	UQ	1	43	33	4	6	0
82	UQ	1	43	33	4	6	0
82	VQ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	VQ	1	43	33	4	6	0
82	WQ	1	43	33	4	6	0
82	WQ	1	43	33	4	6	0
82	WQ	1	43	33	4	6	0
82	XQ	1	43	33	4	6	0
82	XQ	1	43	33	4	6	0
82	XQ	1	43	33	4	6	0
82	YQ	1	43	33	4	6	0
82	YQ	1	43	33	4	6	0
82	YQ	1	43	33	4	6	0
82	ZQ	1	43	33	4	6	0
82	ZQ	1	43	33	4	6	0
82	aQ	1	43	33	4	6	0
82	aQ	1	43	33	4	6	0
82	aQ	1	43	33	4	6	0
82	bQ	1	43	33	4	6	0
82	bQ	1	43	33	4	6	0
82	cQ	1	43	33	4	6	0
82	cQ	1	43	33	4	6	0
82	cQ	1	43	33	4	6	0
82	dQ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	dQ	1	43	33	4	6	0
82	eQ	1	43	33	4	6	0
82	eQ	1	43	33	4	6	0
82	eQ	1	43	33	4	6	0
82	fQ	1	43	33	4	6	0
82	fQ	1	43	33	4	6	0
82	gQ	1	43	33	4	6	0
82	gQ	1	43	33	4	6	0
82	gQ	1	43	33	4	6	0
82	hQ	1	43	33	4	6	0
82	hQ	1	43	33	4	6	0
82	iQ	1	43	33	4	6	0
82	iQ	1	43	33	4	6	0
82	iQ	1	43	33	4	6	0
82	jQ	1	43	33	4	6	0
82	jQ	1	43	33	4	6	0
82	kQ	1	43	33	4	6	0
82	kQ	1	43	33	4	6	0
82	kQ	1	43	33	4	6	0
82	lQ	1	43	33	4	6	0
82	lQ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	lQ	1	43	33	4	6	0
82	mQ	1	43	33	4	6	0
82	mQ	1	43	33	4	6	0
82	nQ	1	43	33	4	6	0
82	nQ	1	43	33	4	6	0
82	oQ	1	43	33	4	6	0
82	oQ	1	43	33	4	6	0
82	oQ	1	43	33	4	6	0
82	pQ	1	43	33	4	6	0
82	pQ	1	43	33	4	6	0
82	qQ	1	43	33	4	6	0
82	qQ	1	43	33	4	6	0
82	qQ	1	43	33	4	6	0
82	rQ	1	43	33	4	6	0
82	rQ	1	43	33	4	6	0
82	sQ	1	43	33	4	6	0
82	sQ	1	43	33	4	6	0
82	sQ	1	43	33	4	6	0
82	tQ	1	43	33	4	6	0
82	tQ	1	43	33	4	6	0
82	uQ	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	uQ	1	43	33	4	6	0
82	uQ	1	43	33	4	6	0
82	vQ	1	43	33	4	6	0
82	vQ	1	43	33	4	6	0
82	wQ	1	43	33	4	6	0
82	wQ	1	43	33	4	6	0
82	wQ	1	43	33	4	6	0
82	xQ	1	43	33	4	6	0
82	xQ	1	43	33	4	6	0
82	xQ	1	43	33	4	6	0
82	yQ	1	43	33	4	6	0
82	AR	1	43	33	4	6	0
82	AR	1	43	33	4	6	0
82	DR	1	43	33	4	6	0
82	GR	1	43	33	4	6	0
82	HR	1	43	33	4	6	0
82	KR	1	43	33	4	6	0
82	LR	1	43	33	4	6	0
82	NR	1	43	33	4	6	0
82	OR	1	43	33	4	6	0
82	OR	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	OR	1	43	33	4	6	0
82	PR	1	43	33	4	6	0
82	PR	1	43	33	4	6	0
82	QR	1	43	33	4	6	0
82	QR	1	43	33	4	6	0
82	QR	1	43	33	4	6	0
82	RR	1	43	33	4	6	0
82	RR	1	43	33	4	6	0
82	SR	1	43	33	4	6	0
82	SR	1	43	33	4	6	0
82	TR	1	43	33	4	6	0
82	TR	1	43	33	4	6	0
82	UR	1	43	33	4	6	0
82	UR	1	43	33	4	6	0
82	UR	1	43	33	4	6	0
82	VR	1	43	33	4	6	0
82	VR	1	43	33	4	6	0
82	WR	1	43	33	4	6	0
82	WR	1	43	33	4	6	0
82	WR	1	43	33	4	6	0
82	YR	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	YR	1	43	33	4	6	0
82	ZR	1	43	33	4	6	0
82	ZR	1	43	33	4	6	0
82	ZR	1	43	33	4	6	0
82	aR	1	43	33	4	6	0
82	aR	1	43	33	4	6	0
82	bR	1	43	33	4	6	0
82	bR	1	43	33	4	6	0
82	cR	1	43	33	4	6	0
82	cR	1	43	33	4	6	0
82	dR	1	43	33	4	6	0
82	dR	1	43	33	4	6	0
82	dR	1	43	33	4	6	0
82	dR	1	43	33	4	6	0
82	eR	1	43	33	4	6	0
82	eR	1	43	33	4	6	0
82	eR	1	43	33	4	6	0
82	fR	1	43	33	4	6	0
82	fR	1	43	33	4	6	0
82	fR	1	43	33	4	6	0
82	gR	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	gR	1	43	33	4	6	0
82	hR	1	43	33	4	6	0
82	hR	1	43	33	4	6	0
82	hR	1	43	33	4	6	0
82	iR	1	43	33	4	6	0
82	iR	1	43	33	4	6	0
82	jR	1	43	33	4	6	0
82	jR	1	43	33	4	6	0
82	kR	1	43	33	4	6	0
82	kR	1	43	33	4	6	0
82	lR	1	43	33	4	6	0
82	lR	1	43	33	4	6	0
82	lR	1	43	33	4	6	0
82	mR	1	43	33	4	6	0
82	mR	1	43	33	4	6	0
82	mR	1	43	33	4	6	0
82	AS	1	43	33	4	6	0
82	AS	1	43	33	4	6	0
82	AS	1	43	33	4	6	0
82	CS	1	43	33	4	6	0
82	DS	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	FS	1	43	33	4	6	0
82	HS	1	43	33	4	6	0
82	JS	1	43	33	4	6	0
82	LS	1	43	33	4	6	0
82	NS	1	43	33	4	6	0
82	OS	1	43	33	4	6	0
82	OS	1	43	33	4	6	0
82	OS	1	43	33	4	6	0
82	PS	1	43	33	4	6	0
82	PS	1	43	33	4	6	0
82	QS	1	43	33	4	6	0
82	QS	1	43	33	4	6	0
82	QS	1	43	33	4	6	0
82	RS	1	43	33	4	6	0
82	RS	1	43	33	4	6	0
82	SS	1	43	33	4	6	0
82	SS	1	43	33	4	6	0
82	TS	1	43	33	4	6	0
82	TS	1	43	33	4	6	0
82	US	1	43	33	4	6	0
82	US	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	US	1	43	33	4	6	0
82	VS	1	43	33	4	6	0
82	VS	1	43	33	4	6	0
82	VS	1	43	33	4	6	0
82	WS	1	43	33	4	6	0
82	WS	1	43	33	4	6	0
82	WS	1	43	33	4	6	0
82	YS	1	43	33	4	6	0
82	YS	1	43	33	4	6	0
82	ZS	1	43	33	4	6	0
82	ZS	1	43	33	4	6	0
82	ZS	1	43	33	4	6	0
82	aS	1	43	33	4	6	0
82	aS	1	43	33	4	6	0
82	bS	1	43	33	4	6	0
82	bS	1	43	33	4	6	0
82	cS	1	43	33	4	6	0
82	cS	1	43	33	4	6	0
82	dS	1	43	33	4	6	0
82	dS	1	43	33	4	6	0
82	dS	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	eS	1	43	33	4	6	0
82	eS	1	43	33	4	6	0
82	eS	1	43	33	4	6	0
82	fS	1	43	33	4	6	0
82	fS	1	43	33	4	6	0
82	fS	1	43	33	4	6	0
82	gS	1	43	33	4	6	0
82	gS	1	43	33	4	6	0
82	hS	1	43	33	4	6	0
82	hS	1	43	33	4	6	0
82	iS	1	43	33	4	6	0
82	iS	1	43	33	4	6	0
82	jS	1	43	33	4	6	0
82	jS	1	43	33	4	6	0
82	jS	1	43	33	4	6	0
82	kS	1	43	33	4	6	0
82	kS	1	43	33	4	6	0
82	kS	1	43	33	4	6	0
82	lS	1	43	33	4	6	0
82	lS	1	43	33	4	6	0
82	mS	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	mS	1	43	33	4	6	0
82	AT	1	43	33	4	6	0
82	AT	1	43	33	4	6	0
82	BT	1	43	33	4	6	0
82	BT	1	43	33	4	6	0
82	CT	1	43	33	4	6	0
82	CT	1	43	33	4	6	0
82	CT	1	43	33	4	6	0
82	DT	1	43	33	4	6	0
82	DT	1	43	33	4	6	0
82	DT	1	43	33	4	6	0
82	ET	1	43	33	4	6	0
82	ET	1	43	33	4	6	0
82	FT	1	43	33	4	6	0
82	FT	1	43	33	4	6	0
82	GT	1	43	33	4	6	0
82	GT	1	43	33	4	6	0
82	GT	1	43	33	4	6	0
82	HT	1	43	33	4	6	0
82	HT	1	43	33	4	6	0
82	IT	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	IT	1	Total 43	C 33	N 4	O 6	0
82	IT	1	Total 43	C 33	N 4	O 6	0
82	JT	1	Total 43	C 33	N 4	O 6	0
82	JT	1	Total 43	C 33	N 4	O 6	0
82	KT	1	Total 43	C 33	N 4	O 6	0
82	KT	1	Total 43	C 33	N 4	O 6	0
82	KT	1	Total 43	C 33	N 4	O 6	0
82	LT	1	Total 43	C 33	N 4	O 6	0
82	LT	1	Total 43	C 33	N 4	O 6	0
82	MT	1	Total 43	C 33	N 4	O 6	0
82	MT	1	Total 43	C 33	N 4	O 6	0
82	MT	1	Total 43	C 33	N 4	O 6	0
82	NT	1	Total 43	C 33	N 4	O 6	0
82	NT	1	Total 43	C 33	N 4	O 6	0
82	OT	1	Total 43	C 33	N 4	O 6	0
82	OT	1	Total 43	C 33	N 4	O 6	0
82	OT	1	Total 43	C 33	N 4	O 6	0
82	PT	1	Total 43	C 33	N 4	O 6	0
82	PT	1	Total 43	C 33	N 4	O 6	0
82	QT	1	Total 43	C 33	N 4	O 6	0
82	QT	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	QT	1	Total 43	C 33	N 4	O 6	0
82	RT	1	Total 43	C 33	N 4	O 6	0
82	RT	1	Total 43	C 33	N 4	O 6	0
82	ST	1	Total 43	C 33	N 4	O 6	0
82	ST	1	Total 43	C 33	N 4	O 6	0
82	ST	1	Total 43	C 33	N 4	O 6	0
82	TT	1	Total 43	C 33	N 4	O 6	0
82	TT	1	Total 43	C 33	N 4	O 6	0
82	UT	1	Total 43	C 33	N 4	O 6	0
82	UT	1	Total 43	C 33	N 4	O 6	0
82	VT	1	Total 43	C 33	N 4	O 6	0
82	VT	1	Total 43	C 33	N 4	O 6	0
82	WT	1	Total 43	C 33	N 4	O 6	0
82	WT	1	Total 43	C 33	N 4	O 6	0
82	WT	1	Total 43	C 33	N 4	O 6	0
82	XT	1	Total 43	C 33	N 4	O 6	0
82	XT	1	Total 43	C 33	N 4	O 6	0
82	XT	1	Total 43	C 33	N 4	O 6	0
82	YT	1	Total 43	C 33	N 4	O 6	0
82	YT	1	Total 43	C 33	N 4	O 6	0
82	YT	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	ZT	1	43	33	4	6	0
82	ZT	1	43	33	4	6	0
82	aT	1	43	33	4	6	0
82	aT	1	43	33	4	6	0
82	aT	1	43	33	4	6	0
82	bT	1	43	33	4	6	0
82	bT	1	43	33	4	6	0
82	cT	1	43	33	4	6	0
82	cT	1	43	33	4	6	0
82	cT	1	43	33	4	6	0
82	dT	1	43	33	4	6	0
82	dT	1	43	33	4	6	0
82	eT	1	43	33	4	6	0
82	eT	1	43	33	4	6	0
82	eT	1	43	33	4	6	0
82	fT	1	43	33	4	6	0
82	fT	1	43	33	4	6	0
82	gT	1	43	33	4	6	0
82	gT	1	43	33	4	6	0
82	gT	1	43	33	4	6	0
82	hT	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	hT	1	43	33	4	6	0
82	iT	1	43	33	4	6	0
82	iT	1	43	33	4	6	0
82	iT	1	43	33	4	6	0
82	jT	1	43	33	4	6	0
82	jT	1	43	33	4	6	0
82	kT	1	43	33	4	6	0
82	kT	1	43	33	4	6	0
82	kT	1	43	33	4	6	0
82	lT	1	43	33	4	6	0
82	lT	1	43	33	4	6	0
82	lT	1	43	33	4	6	0
82	mT	1	43	33	4	6	0
82	mT	1	43	33	4	6	0
82	nT	1	43	33	4	6	0
82	nT	1	43	33	4	6	0
82	oT	1	43	33	4	6	0
82	oT	1	43	33	4	6	0
82	oT	1	43	33	4	6	0
82	pT	1	43	33	4	6	0
82	pT	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	qT	1	43	33	4	6	0
82	qT	1	43	33	4	6	0
82	qT	1	43	33	4	6	0
82	rT	1	43	33	4	6	0
82	rT	1	43	33	4	6	0
82	sT	1	43	33	4	6	0
82	sT	1	43	33	4	6	0
82	sT	1	43	33	4	6	0
82	tT	1	43	33	4	6	0
82	tT	1	43	33	4	6	0
82	tT	1	43	33	4	6	0
82	uT	1	43	33	4	6	0
82	uT	1	43	33	4	6	0
82	vT	1	43	33	4	6	0
82	vT	1	43	33	4	6	0
82	wT	1	43	33	4	6	0
82	wT	1	43	33	4	6	0
82	wT	1	43	33	4	6	0
82	xT	1	43	33	4	6	0
82	xT	1	43	33	4	6	0
82	xT	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	yT	1	43	33	4	6	0
82	AU	1	43	33	4	6	0
82	AU	1	43	33	4	6	0
82	AU	1	43	33	4	6	0
82	BU	1	43	33	4	6	0
82	BU	1	43	33	4	6	0
82	CU	1	43	33	4	6	0
82	CU	1	43	33	4	6	0
82	CU	1	43	33	4	6	0
82	DU	1	43	33	4	6	0
82	DU	1	43	33	4	6	0
82	EU	1	43	33	4	6	0
82	EU	1	43	33	4	6	0
82	EU	1	43	33	4	6	0
82	FU	1	43	33	4	6	0
82	FU	1	43	33	4	6	0
82	GU	1	43	33	4	6	0
82	GU	1	43	33	4	6	0
82	GU	1	43	33	4	6	0
82	HU	1	43	33	4	6	0
82	HU	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	IU	1	43	33	4	6	0
82	IU	1	43	33	4	6	0
82	IU	1	43	33	4	6	0
82	JU	1	43	33	4	6	0
82	JU	1	43	33	4	6	0
82	KU	1	43	33	4	6	0
82	KU	1	43	33	4	6	0
82	LU	1	43	33	4	6	0
82	LU	1	43	33	4	6	0
82	MU	1	43	33	4	6	0
82	MU	1	43	33	4	6	0
82	MU	1	43	33	4	6	0
82	NU	1	43	33	4	6	0
82	NU	1	43	33	4	6	0
82	OU	1	43	33	4	6	0
82	OU	1	43	33	4	6	0
82	OU	1	43	33	4	6	0
82	PU	1	43	33	4	6	0
82	PU	1	43	33	4	6	0
82	QU	1	43	33	4	6	0
82	QU	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	QU	1	43	33	4	6	0
82	RU	1	43	33	4	6	0
82	RU	1	43	33	4	6	0
82	SU	1	43	33	4	6	0
82	SU	1	43	33	4	6	0
82	SU	1	43	33	4	6	0
82	TU	1	43	33	4	6	0
82	TU	1	43	33	4	6	0
82	UU	1	43	33	4	6	0
82	UU	1	43	33	4	6	0
82	UU	1	43	33	4	6	0
82	VU	1	43	33	4	6	0
82	VU	1	43	33	4	6	0
82	WU	1	43	33	4	6	0
82	WU	1	43	33	4	6	0
82	XU	1	43	33	4	6	0
82	XU	1	43	33	4	6	0
82	YU	1	43	33	4	6	0
82	YU	1	43	33	4	6	0
82	YU	1	43	33	4	6	0
82	bU	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	bU	1	43	33	4	6	0
82	AV	1	43	33	4	6	0
82	AV	1	43	33	4	6	0
82	BV	1	43	33	4	6	0
82	CV	1	43	33	4	6	0
82	CV	1	43	33	4	6	0
82	CV	1	43	33	4	6	0
82	DV	1	43	33	4	6	0
82	DV	1	43	33	4	6	0
82	EV	1	43	33	4	6	0
82	EV	1	43	33	4	6	0
82	EV	1	43	33	4	6	0
82	FV	1	43	33	4	6	0
82	FV	1	43	33	4	6	0
82	GV	1	43	33	4	6	0
82	GV	1	43	33	4	6	0
82	GV	1	43	33	4	6	0
82	HV	1	43	33	4	6	0
82	HV	1	43	33	4	6	0
82	IV	1	43	33	4	6	0
82	IV	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	IV	1	43	33	4	6	0
82	JV	1	43	33	4	6	0
82	JV	1	43	33	4	6	0
82	KV	1	43	33	4	6	0
82	KV	1	43	33	4	6	0
82	KV	1	43	33	4	6	0
82	LV	1	43	33	4	6	0
82	LV	1	43	33	4	6	0
82	MV	1	43	33	4	6	0
82	MV	1	43	33	4	6	0
82	MV	1	43	33	4	6	0
82	NV	1	43	33	4	6	0
82	NV	1	43	33	4	6	0
82	OV	1	43	33	4	6	0
82	OV	1	43	33	4	6	0
82	OV	1	43	33	4	6	0
82	PV	1	43	33	4	6	0
82	PV	1	43	33	4	6	0
82	QV	1	43	33	4	6	0
82	QV	1	43	33	4	6	0
82	QV	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	RV	1	43	33	4	6	0
82	RV	1	43	33	4	6	0
82	SV	1	43	33	4	6	0
82	SV	1	43	33	4	6	0
82	SV	1	43	33	4	6	0
82	TV	1	43	33	4	6	0
82	TV	1	43	33	4	6	0
82	UV	1	43	33	4	6	0
82	UV	1	43	33	4	6	0
82	UV	1	43	33	4	6	0
82	VV	1	43	33	4	6	0
82	VV	1	43	33	4	6	0
82	WV	1	43	33	4	6	0
82	WV	1	43	33	4	6	0
82	WV	1	43	33	4	6	0
82	XV	1	43	33	4	6	0
82	XV	1	43	33	4	6	0
82	YV	1	43	33	4	6	0
82	YV	1	43	33	4	6	0
82	YV	1	43	33	4	6	0
82	ZV	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	ZV	1	Total 43	C 33	N 4	O 6	0
82	aV	1	Total 43	C 33	N 4	O 6	0
82	aV	1	Total 43	C 33	N 4	O 6	0
82	aV	1	Total 43	C 33	N 4	O 6	0
82	aV	1	Total 43	C 33	N 4	O 6	0
82	cV	1	Total 43	C 33	N 4	O 6	0
82	cV	1	Total 43	C 33	N 4	O 6	0
82	dV	1	Total 43	C 33	N 4	O 6	0
82	dV	1	Total 43	C 33	N 4	O 6	0
82	dV	1	Total 43	C 33	N 4	O 6	0
82	eV	1	Total 43	C 33	N 4	O 6	0
82	eV	1	Total 43	C 33	N 4	O 6	0
82	fV	1	Total 43	C 33	N 4	O 6	0
82	fV	1	Total 43	C 33	N 4	O 6	0
82	fV	1	Total 43	C 33	N 4	O 6	0
82	gV	1	Total 43	C 33	N 4	O 6	0
82	gV	1	Total 43	C 33	N 4	O 6	0
82	hV	1	Total 43	C 33	N 4	O 6	0
82	hV	1	Total 43	C 33	N 4	O 6	0
82	hV	1	Total 43	C 33	N 4	O 6	0
82	iV	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	iV	1	43	33	4	6	0
82	jV	1	43	33	4	6	0
82	jV	1	43	33	4	6	0
82	jV	1	43	33	4	6	0
82	kV	1	43	33	4	6	0
82	kV	1	43	33	4	6	0
82	lV	1	43	33	4	6	0
82	lV	1	43	33	4	6	0
82	lV	1	43	33	4	6	0
82	mV	1	43	33	4	6	0
82	mV	1	43	33	4	6	0
82	AW	1	43	33	4	6	0
82	BW	1	43	33	4	6	0
82	BW	1	43	33	4	6	0
82	BW	1	43	33	4	6	0
82	CW	1	43	33	4	6	0
82	CW	1	43	33	4	6	0
82	DW	1	43	33	4	6	0
82	DW	1	43	33	4	6	0
82	DW	1	43	33	4	6	0
82	EW	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	FW	1	43	33	4	6	0
82	GW	1	43	33	4	6	0
82	GW	1	43	33	4	6	0
82	GW	1	43	33	4	6	0
82	HW	1	43	33	4	6	0
82	HW	1	43	33	4	6	0
82	HW	1	43	33	4	6	0
82	IW	1	43	33	4	6	0
82	IW	1	43	33	4	6	0
82	IW	1	43	33	4	6	0
82	JW	1	43	33	4	6	0
82	JW	1	43	33	4	6	0
82	KW	1	43	33	4	6	0
82	KW	1	43	33	4	6	0
82	KW	1	43	33	4	6	0
82	KW	1	43	33	4	6	0
82	KW	1	43	33	4	6	0
82	LW	1	43	33	4	6	0
82	MW	1	43	33	4	6	0
82	MW	1	43	33	4	6	0
82	NW	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	NW	1	43	33	4	6	0
82	NW	1	43	33	4	6	0
82	OW	1	43	33	4	6	0
82	PW	1	43	33	4	6	0
82	QW	1	43	33	4	6	0
82	QW	1	43	33	4	6	0
82	QW	1	43	33	4	6	0
82	QW	1	43	33	4	6	0
82	RW	1	43	33	4	6	0
82	RW	1	43	33	4	6	0
82	SW	1	43	33	4	6	0
82	SW	1	43	33	4	6	0
82	SW	1	43	33	4	6	0
82	TW	1	43	33	4	6	0
82	TW	1	43	33	4	6	0
82	UW	1	43	33	4	6	0
82	UW	1	43	33	4	6	0
82	UW	1	43	33	4	6	0
82	VW	1	43	33	4	6	0
82	WW	1	43	33	4	6	0
82	WW	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	XW	1	43	33	4	6	0
82	XW	1	43	33	4	6	0
82	YW	1	43	33	4	6	0
82	YW	1	43	33	4	6	0
82	ZW	1	43	33	4	6	0
82	ZW	1	43	33	4	6	0
82	ZW	1	43	33	4	6	0
82	aW	1	43	33	4	6	0
82	aW	1	43	33	4	6	0
82	aW	1	43	33	4	6	0
82	bW	1	43	33	4	6	0
82	cW	1	43	33	4	6	0
82	cW	1	43	33	4	6	0
82	cW	1	43	33	4	6	0
82	dW	1	43	33	4	6	0
82	dW	1	43	33	4	6	0
82	eW	1	43	33	4	6	0
82	fW	1	43	33	4	6	0
82	gW	1	43	33	4	6	0
82	gW	1	43	33	4	6	0
82	gW	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	hW	1	43	33	4	6	0
82	1X	1	43	33	4	6	0
82	1X	1	43	33	4	6	0
82	1X	1	43	33	4	6	0
82	pX	1	43	33	4	6	0
82	pX	1	43	33	4	6	0
82	qX	1	43	33	4	6	0
82	qX	1	43	33	4	6	0
82	qX	1	43	33	4	6	0
82	rX	1	43	33	4	6	0
82	rX	1	43	33	4	6	0
82	sX	1	43	33	4	6	0
82	sX	1	43	33	4	6	0
82	sX	1	43	33	4	6	0
82	tX	1	43	33	4	6	0
82	tX	1	43	33	4	6	0
82	uX	1	43	33	4	6	0
82	uX	1	43	33	4	6	0
82	uX	1	43	33	4	6	0
82	vX	1	43	33	4	6	0
82	vX	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	wX	1	43	33	4	6	0
82	wX	1	43	33	4	6	0
82	wX	1	43	33	4	6	0
82	wX	1	43	33	4	6	0
82	xX	1	43	33	4	6	0
82	xX	1	43	33	4	6	0
82	yX	1	43	33	4	6	0
82	yX	1	43	33	4	6	0
82	yX	1	43	33	4	6	0
82	zX	1	43	33	4	6	0
82	zX	1	43	33	4	6	0
82	yY	1	43	33	4	6	0
82	yY	1	43	33	4	6	0
82	yY	1	43	33	4	6	0
82	zY	1	43	33	4	6	0
82	zY	1	43	33	4	6	0
82	1Y	1	43	33	4	6	0
82	1Y	1	43	33	4	6	0
82	1Y	1	43	33	4	6	0
82	pY	1	43	33	4	6	0
82	pY	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	qY	1	43	33	4	6	0
82	qY	1	43	33	4	6	0
82	qY	1	43	33	4	6	0
82	rY	1	43	33	4	6	0
82	rY	1	43	33	4	6	0
82	sY	1	43	33	4	6	0
82	sY	1	43	33	4	6	0
82	sY	1	43	33	4	6	0
82	tY	1	43	33	4	6	0
82	tY	1	43	33	4	6	0
82	uY	1	43	33	4	6	0
82	uY	1	43	33	4	6	0
82	uY	1	43	33	4	6	0
82	vY	1	43	33	4	6	0
82	wY	1	43	33	4	6	0
82	wY	1	43	33	4	6	0
82	wY	1	43	33	4	6	0
82	wY	1	43	33	4	6	0
82	xY	1	43	33	4	6	0
82	xY	1	43	33	4	6	0
82	Aa	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Aa	1	43	33	4	6	0
82	Ba	1	43	33	4	6	0
82	Ba	1	43	33	4	6	0
82	Ba	1	43	33	4	6	0
82	Ca	1	43	33	4	6	0
82	Ca	1	43	33	4	6	0
82	Da	1	43	33	4	6	0
82	Da	1	43	33	4	6	0
82	Da	1	43	33	4	6	0
82	Ea	1	43	33	4	6	0
82	Ea	1	43	33	4	6	0
82	Fa	1	43	33	4	6	0
82	Fa	1	43	33	4	6	0
82	Fa	1	43	33	4	6	0
82	Ga	1	43	33	4	6	0
82	Ga	1	43	33	4	6	0
82	Ha	1	43	33	4	6	0
82	Ha	1	43	33	4	6	0
82	Ha	1	43	33	4	6	0
82	Ia	1	43	33	4	6	0
82	Ia	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Ja	1	Total 43	C 33	N 4	O 6	0
82	Ja	1	Total 43	C 33	N 4	O 6	0
82	Ja	1	Total 43	C 33	N 4	O 6	0
82	Ka	1	Total 43	C 33	N 4	O 6	0
82	Ka	1	Total 43	C 33	N 4	O 6	0
82	La	1	Total 43	C 33	N 4	O 6	0
82	La	1	Total 43	C 33	N 4	O 6	0
82	La	1	Total 43	C 33	N 4	O 6	0
82	Ma	1	Total 43	C 33	N 4	O 6	0
82	Ma	1	Total 43	C 33	N 4	O 6	0
82	Ma	1	Total 43	C 33	N 4	O 6	0
82	Na	1	Total 43	C 33	N 4	O 6	0
82	Na	1	Total 43	C 33	N 4	O 6	0
82	Oa	1	Total 43	C 33	N 4	O 6	0
82	Oa	1	Total 43	C 33	N 4	O 6	0
82	Oa	1	Total 43	C 33	N 4	O 6	0
82	Pa	1	Total 43	C 33	N 4	O 6	0
82	Pa	1	Total 43	C 33	N 4	O 6	0
82	Qa	1	Total 43	C 33	N 4	O 6	0
82	Qa	1	Total 43	C 33	N 4	O 6	0
82	Qa	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Ra	1	43	33	4	6	0
82	Ra	1	43	33	4	6	0
82	Sa	1	43	33	4	6	0
82	Sa	1	43	33	4	6	0
82	Sa	1	43	33	4	6	0
82	Ta	1	43	33	4	6	0
82	Ta	1	43	33	4	6	0
82	Ua	1	43	33	4	6	0
82	Ua	1	43	33	4	6	0
82	Ua	1	43	33	4	6	0
82	Va	1	43	33	4	6	0
82	Va	1	43	33	4	6	0
82	Wa	1	43	33	4	6	0
82	Wa	1	43	33	4	6	0
82	Wa	1	43	33	4	6	0
82	Xa	1	43	33	4	6	0
82	Xa	1	43	33	4	6	0
82	Ya	1	43	33	4	6	0
82	Ya	1	43	33	4	6	0
82	Ya	1	43	33	4	6	0
82	Za	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Za	1	43	33	4	6	0
82	Za	1	43	33	4	6	0
82	Za	1	43	33	4	6	0
82	Ab	1	43	33	4	6	0
82	Ab	1	43	33	4	6	0
82	Bb	1	43	33	4	6	0
82	Bb	1	43	33	4	6	0
82	Cb	1	43	33	4	6	0
82	Cb	1	43	33	4	6	0
82	Cb	1	43	33	4	6	0
82	Db	1	43	33	4	6	0
82	Db	1	43	33	4	6	0
82	Db	1	43	33	4	6	0
82	Eb	1	43	33	4	6	0
82	Eb	1	43	33	4	6	0
82	Fb	1	43	33	4	6	0
82	Fb	1	43	33	4	6	0
82	Gb	1	43	33	4	6	0
82	Gb	1	43	33	4	6	0
82	Gb	1	43	33	4	6	0
82	Hb	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Hb	1	43	33	4	6	0
82	Ib	1	43	33	4	6	0
82	Ib	1	43	33	4	6	0
82	Ib	1	43	33	4	6	0
82	Jb	1	43	33	4	6	0
82	Jb	1	43	33	4	6	0
82	Kb	1	43	33	4	6	0
82	Kb	1	43	33	4	6	0
82	Kb	1	43	33	4	6	0
82	Lb	1	43	33	4	6	0
82	Lb	1	43	33	4	6	0
82	Mb	1	43	33	4	6	0
82	Mb	1	43	33	4	6	0
82	Mb	1	43	33	4	6	0
82	Nb	1	43	33	4	6	0
82	Nb	1	43	33	4	6	0
82	Ob	1	43	33	4	6	0
82	Ob	1	43	33	4	6	0
82	Ob	1	43	33	4	6	0
82	Pb	1	43	33	4	6	0
82	Pb	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Qb	1	43	33	4	6	0
82	Qb	1	43	33	4	6	0
82	Qb	1	43	33	4	6	0
82	Rb	1	43	33	4	6	0
82	Rb	1	43	33	4	6	0
82	Sb	1	43	33	4	6	0
82	Sb	1	43	33	4	6	0
82	Sb	1	43	33	4	6	0
82	Tb	1	43	33	4	6	0
82	Tb	1	43	33	4	6	0
82	Ub	1	43	33	4	6	0
82	Ub	1	43	33	4	6	0
82	Vb	1	43	33	4	6	0
82	Vb	1	43	33	4	6	0
82	Wb	1	43	33	4	6	0
82	Wb	1	43	33	4	6	0
82	Wb	1	43	33	4	6	0
82	Xb	1	43	33	4	6	0
82	Xb	1	43	33	4	6	0
82	Xb	1	43	33	4	6	0
82	Yb	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Yb	1	43	33	4	6	0
82	Yb	1	43	33	4	6	0
82	Zb	1	43	33	4	6	0
82	Zb	1	43	33	4	6	0
82	ab	1	43	33	4	6	0
82	ab	1	43	33	4	6	0
82	ab	1	43	33	4	6	0
82	bb	1	43	33	4	6	0
82	bb	1	43	33	4	6	0
82	cb	1	43	33	4	6	0
82	cb	1	43	33	4	6	0
82	cb	1	43	33	4	6	0
82	db	1	43	33	4	6	0
82	db	1	43	33	4	6	0
82	eb	1	43	33	4	6	0
82	eb	1	43	33	4	6	0
82	eb	1	43	33	4	6	0
82	fb	1	43	33	4	6	0
82	fb	1	43	33	4	6	0
82	gb	1	43	33	4	6	0
82	gb	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	gb	1	Total 43	C 33	N 4	O 6	0
82	hb	1	Total 43	C 33	N 4	O 6	0
82	hb	1	Total 43	C 33	N 4	O 6	0
82	ib	1	Total 43	C 33	N 4	O 6	0
82	ib	1	Total 43	C 33	N 4	O 6	0
82	ib	1	Total 43	C 33	N 4	O 6	0
82	jb	1	Total 43	C 33	N 4	O 6	0
82	jb	1	Total 43	C 33	N 4	O 6	0
82	kb	1	Total 43	C 33	N 4	O 6	0
82	kb	1	Total 43	C 33	N 4	O 6	0
82	kb	1	Total 43	C 33	N 4	O 6	0
82	lb	1	Total 43	C 33	N 4	O 6	0
82	lb	1	Total 43	C 33	N 4	O 6	0
82	lb	1	Total 43	C 33	N 4	O 6	0
82	mb	1	Total 43	C 33	N 4	O 6	0
82	mb	1	Total 43	C 33	N 4	O 6	0
82	nb	1	Total 43	C 33	N 4	O 6	0
82	nb	1	Total 43	C 33	N 4	O 6	0
82	ob	1	Total 43	C 33	N 4	O 6	0
82	ob	1	Total 43	C 33	N 4	O 6	0
82	ob	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	pb	1	43	33	4	6	0
82	pb	1	43	33	4	6	0
82	qb	1	43	33	4	6	0
82	qb	1	43	33	4	6	0
82	qb	1	43	33	4	6	0
82	rb	1	43	33	4	6	0
82	rb	1	43	33	4	6	0
82	sb	1	43	33	4	6	0
82	sb	1	43	33	4	6	0
82	sb	1	43	33	4	6	0
82	tb	1	43	33	4	6	0
82	tb	1	43	33	4	6	0
82	ub	1	43	33	4	6	0
82	ub	1	43	33	4	6	0
82	ub	1	43	33	4	6	0
82	vb	1	43	33	4	6	0
82	vb	1	43	33	4	6	0
82	wb	1	43	33	4	6	0
82	wb	1	43	33	4	6	0
82	wb	1	43	33	4	6	0
82	xb	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	xb	1	Total 43	C 33	N 4	O 6	0
82	xb	1	Total 43	C 33	N 4	O 6	0
82	yb	1	Total 43	C 33	N 4	O 6	0
82	Ac	1	Total 43	C 33	N 4	O 6	0
82	Ac	1	Total 43	C 33	N 4	O 6	0
82	Ac	1	Total 43	C 33	N 4	O 6	0
82	Bc	1	Total 43	C 33	N 4	O 6	0
82	Bc	1	Total 43	C 33	N 4	O 6	0
82	Bc	1	Total 43	C 33	N 4	O 6	0
82	Cc	1	Total 43	C 33	N 4	O 6	0
82	Cc	1	Total 43	C 33	N 4	O 6	0
82	Dc	1	Total 43	C 33	N 4	O 6	0
82	Dc	1	Total 43	C 33	N 4	O 6	0
82	Dc	1	Total 43	C 33	N 4	O 6	0
82	Ec	1	Total 43	C 33	N 4	O 6	0
82	Ec	1	Total 43	C 33	N 4	O 6	0
82	Fc	1	Total 43	C 33	N 4	O 6	0
82	Fc	1	Total 43	C 33	N 4	O 6	0
82	Fc	1	Total 43	C 33	N 4	O 6	0
82	Gc	1	Total 43	C 33	N 4	O 6	0
82	Gc	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Hc	1	43	33	4	6	0
82	Hc	1	43	33	4	6	0
82	Hc	1	43	33	4	6	0
82	Ic	1	43	33	4	6	0
82	Ic	1	43	33	4	6	0
82	Jc	1	43	33	4	6	0
82	Jc	1	43	33	4	6	0
82	Jc	1	43	33	4	6	0
82	Kc	1	43	33	4	6	0
82	Kc	1	43	33	4	6	0
82	Lc	1	43	33	4	6	0
82	Lc	1	43	33	4	6	0
82	Lc	1	43	33	4	6	0
82	Mc	1	43	33	4	6	0
82	Mc	1	43	33	4	6	0
82	Nc	1	43	33	4	6	0
82	Nc	1	43	33	4	6	0
82	Nc	1	43	33	4	6	0
82	Oc	1	43	33	4	6	0
82	Oc	1	43	33	4	6	0
82	Pc	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Pc	1	43	33	4	6	0
82	Pc	1	43	33	4	6	0
82	Qc	1	43	33	4	6	0
82	Qc	1	43	33	4	6	0
82	Rc	1	43	33	4	6	0
82	Rc	1	43	33	4	6	0
82	Rc	1	43	33	4	6	0
82	Sc	1	43	33	4	6	0
82	Sc	1	43	33	4	6	0
82	Tc	1	43	33	4	6	0
82	Tc	1	43	33	4	6	0
82	Tc	1	43	33	4	6	0
82	Uc	1	43	33	4	6	0
82	Uc	1	43	33	4	6	0
82	Vc	1	43	33	4	6	0
82	Vc	1	43	33	4	6	0
82	Vc	1	43	33	4	6	0
82	Wc	1	43	33	4	6	0
82	Wc	1	43	33	4	6	0
82	Xc	1	43	33	4	6	0
82	Xc	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Xc	1	43	33	4	6	0
82	Yc	1	43	33	4	6	0
82	Yc	1	43	33	4	6	0
82	dc	1	43	33	4	6	0
82	Ae	1	43	33	4	6	0
82	Ae	1	43	33	4	6	0
82	Ae	1	43	33	4	6	0
82	De	1	43	33	4	6	0
82	Fe	1	43	33	4	6	0
82	He	1	43	33	4	6	0
82	Je	1	43	33	4	6	0
82	Le	1	43	33	4	6	0
82	Ne	1	43	33	4	6	0
82	Oe	1	43	33	4	6	0
82	Oe	1	43	33	4	6	0
82	Pe	1	43	33	4	6	0
82	Pe	1	43	33	4	6	0
82	Pe	1	43	33	4	6	0
82	Qe	1	43	33	4	6	0
82	Qe	1	43	33	4	6	0
82	Re	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Re	1	43	33	4	6	0
82	Re	1	43	33	4	6	0
82	Se	1	43	33	4	6	0
82	Se	1	43	33	4	6	0
82	Te	1	43	33	4	6	0
82	Te	1	43	33	4	6	0
82	Te	1	43	33	4	6	0
82	Ue	1	43	33	4	6	0
82	Ue	1	43	33	4	6	0
82	Ve	1	43	33	4	6	0
82	Ve	1	43	33	4	6	0
82	We	1	43	33	4	6	0
82	Ye	1	43	33	4	6	0
82	Ye	1	43	33	4	6	0
82	Ye	1	43	33	4	6	0
82	Ze	1	43	33	4	6	0
82	Ze	1	43	33	4	6	0
82	ae	1	43	33	4	6	0
82	ae	1	43	33	4	6	0
82	ae	1	43	33	4	6	0
82	be	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	be	1	Total 43	C 33	N 4	O 6	0
82	ce	1	Total 43	C 33	N 4	O 6	0
82	ce	1	Total 43	C 33	N 4	O 6	0
82	ce	1	Total 43	C 33	N 4	O 6	0
82	de	1	Total 43	C 33	N 4	O 6	0
82	de	1	Total 43	C 33	N 4	O 6	0
82	ee	1	Total 43	C 33	N 4	O 6	0
82	ee	1	Total 43	C 33	N 4	O 6	0
82	ee	1	Total 43	C 33	N 4	O 6	0
82	fe	1	Total 43	C 33	N 4	O 6	0
82	fe	1	Total 43	C 33	N 4	O 6	0
82	ge	1	Total 43	C 33	N 4	O 6	0
82	ge	1	Total 43	C 33	N 4	O 6	0
82	ge	1	Total 43	C 33	N 4	O 6	0
82	he	1	Total 43	C 33	N 4	O 6	0
82	he	1	Total 43	C 33	N 4	O 6	0
82	ie	1	Total 43	C 33	N 4	O 6	0
82	ie	1	Total 43	C 33	N 4	O 6	0
82	ie	1	Total 43	C 33	N 4	O 6	0
82	je	1	Total 43	C 33	N 4	O 6	0
82	je	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	ke	1	Total 43	C 33	N 4	O 6	0
82	ke	1	Total 43	C 33	N 4	O 6	0
82	ke	1	Total 43	C 33	N 4	O 6	0
82	le	1	Total 43	C 33	N 4	O 6	0
82	le	1	Total 43	C 33	N 4	O 6	0
82	me	1	Total 43	C 33	N 4	O 6	0
82	me	1	Total 43	C 33	N 4	O 6	0
82	me	1	Total 43	C 33	N 4	O 6	0
82	Af	1	Total 43	C 33	N 4	O 6	0
82	Af	1	Total 43	C 33	N 4	O 6	0
82	Bf	1	Total 43	C 33	N 4	O 6	0
82	Bf	1	Total 43	C 33	N 4	O 6	0
82	Bf	1	Total 43	C 33	N 4	O 6	0
82	Cf	1	Total 43	C 33	N 4	O 6	0
82	Cf	1	Total 43	C 33	N 4	O 6	0
82	Df	1	Total 43	C 33	N 4	O 6	0
82	Df	1	Total 43	C 33	N 4	O 6	0
82	Df	1	Total 43	C 33	N 4	O 6	0
82	Ef	1	Total 43	C 33	N 4	O 6	0
82	Ef	1	Total 43	C 33	N 4	O 6	0
82	Ff	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Ff	1	Total 43	C 33	N 4	O 6	0
82	Ff	1	Total 43	C 33	N 4	O 6	0
82	Gf	1	Total 43	C 33	N 4	O 6	0
82	Gf	1	Total 43	C 33	N 4	O 6	0
82	Hf	1	Total 43	C 33	N 4	O 6	0
82	Hf	1	Total 43	C 33	N 4	O 6	0
82	Hf	1	Total 43	C 33	N 4	O 6	0
82	If	1	Total 43	C 33	N 4	O 6	0
82	If	1	Total 43	C 33	N 4	O 6	0
82	Jf	1	Total 43	C 33	N 4	O 6	0
82	Jf	1	Total 43	C 33	N 4	O 6	0
82	Jf	1	Total 43	C 33	N 4	O 6	0
82	Kf	1	Total 43	C 33	N 4	O 6	0
82	Kf	1	Total 43	C 33	N 4	O 6	0
82	Lf	1	Total 43	C 33	N 4	O 6	0
82	Lf	1	Total 43	C 33	N 4	O 6	0
82	Lf	1	Total 43	C 33	N 4	O 6	0
82	Mf	1	Total 43	C 33	N 4	O 6	0
82	Mf	1	Total 43	C 33	N 4	O 6	0
82	Mf	1	Total 43	C 33	N 4	O 6	0
82	Nf	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Nf	1	43	33	4	6	0
82	Of	1	43	33	4	6	0
82	Of	1	43	33	4	6	0
82	Of	1	43	33	4	6	0
82	Pf	1	43	33	4	6	0
82	Pf	1	43	33	4	6	0
82	Qf	1	43	33	4	6	0
82	Qf	1	43	33	4	6	0
82	Qf	1	43	33	4	6	0
82	Rf	1	43	33	4	6	0
82	Rf	1	43	33	4	6	0
82	Sf	1	43	33	4	6	0
82	Sf	1	43	33	4	6	0
82	Sf	1	43	33	4	6	0
82	Tf	1	43	33	4	6	0
82	Tf	1	43	33	4	6	0
82	Uf	1	43	33	4	6	0
82	Uf	1	43	33	4	6	0
82	Uf	1	43	33	4	6	0
82	Uf	1	43	33	4	6	0
82	Vf	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Vf	1	43	33	4	6	0
82	Wf	1	43	33	4	6	0
82	Wf	1	43	33	4	6	0
82	Wf	1	43	33	4	6	0
82	Xf	1	43	33	4	6	0
82	Xf	1	43	33	4	6	0
82	Yf	1	43	33	4	6	0
82	Yf	1	43	33	4	6	0
82	Yf	1	43	33	4	6	0
82	Zf	1	43	33	4	6	0
82	Zf	1	43	33	4	6	0
82	Zf	1	43	33	4	6	0
82	Ag	1	43	33	4	6	0
82	Ag	1	43	33	4	6	0
82	Bg	1	43	33	4	6	0
82	Bg	1	43	33	4	6	0
82	Bg	1	43	33	4	6	0
82	Cg	1	43	33	4	6	0
82	Cg	1	43	33	4	6	0
82	Dg	1	43	33	4	6	0
82	Dg	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Dg	1	43	33	4	6	0
82	Eg	1	43	33	4	6	0
82	Eg	1	43	33	4	6	0
82	Fg	1	43	33	4	6	0
82	Fg	1	43	33	4	6	0
82	Fg	1	43	33	4	6	0
82	Gg	1	43	33	4	6	0
82	Gg	1	43	33	4	6	0
82	Hg	1	43	33	4	6	0
82	Hg	1	43	33	4	6	0
82	Hg	1	43	33	4	6	0
82	Ig	1	43	33	4	6	0
82	Ig	1	43	33	4	6	0
82	Jg	1	43	33	4	6	0
82	Jg	1	43	33	4	6	0
82	Jg	1	43	33	4	6	0
82	Kg	1	43	33	4	6	0
82	Kg	1	43	33	4	6	0
82	Lg	1	43	33	4	6	0
82	Lg	1	43	33	4	6	0
82	Lg	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Mg	1	43	33	4	6	0
82	Mg	1	43	33	4	6	0
82	Ng	1	43	33	4	6	0
82	Ng	1	43	33	4	6	0
82	Ng	1	43	33	4	6	0
82	Og	1	43	33	4	6	0
82	Og	1	43	33	4	6	0
82	Pg	1	43	33	4	6	0
82	Pg	1	43	33	4	6	0
82	Pg	1	43	33	4	6	0
82	Qg	1	43	33	4	6	0
82	Qg	1	43	33	4	6	0
82	Rg	1	43	33	4	6	0
82	Rg	1	43	33	4	6	0
82	Rg	1	43	33	4	6	0
82	Sg	1	43	33	4	6	0
82	Sg	1	43	33	4	6	0
82	Tg	1	43	33	4	6	0
82	Tg	1	43	33	4	6	0
82	Tg	1	43	33	4	6	0
82	Ug	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Ug	1	43	33	4	6	0
82	Vg	1	43	33	4	6	0
82	Vg	1	43	33	4	6	0
82	Vg	1	43	33	4	6	0
82	Wg	1	43	33	4	6	0
82	Wg	1	43	33	4	6	0
82	Xg	1	43	33	4	6	0
82	Xg	1	43	33	4	6	0
82	Xg	1	43	33	4	6	0
82	Yg	1	43	33	4	6	0
82	Yg	1	43	33	4	6	0
82	Yg	1	43	33	4	6	0
82	eg	1	43	33	4	6	0
82	Ah	1	43	33	4	6	0
82	Ah	1	43	33	4	6	0
82	Bh	1	43	33	4	6	0
82	Bh	1	43	33	4	6	0
82	Bh	1	43	33	4	6	0
82	Ch	1	43	33	4	6	0
82	Ch	1	43	33	4	6	0
82	Dh	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Dh	1	43	33	4	6	0
82	Dh	1	43	33	4	6	0
82	Eh	1	43	33	4	6	0
82	Eh	1	43	33	4	6	0
82	Fh	1	43	33	4	6	0
82	Fh	1	43	33	4	6	0
82	Fh	1	43	33	4	6	0
82	Gh	1	43	33	4	6	0
82	Gh	1	43	33	4	6	0
82	Hh	1	43	33	4	6	0
82	Hh	1	43	33	4	6	0
82	Hh	1	43	33	4	6	0
82	Ih	1	43	33	4	6	0
82	Ih	1	43	33	4	6	0
82	Jh	1	43	33	4	6	0
82	Jh	1	43	33	4	6	0
82	Jh	1	43	33	4	6	0
82	Kh	1	43	33	4	6	0
82	Kh	1	43	33	4	6	0
82	Lh	1	43	33	4	6	0
82	Lh	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Lh	1	43	33	4	6	0
82	Mh	1	43	33	4	6	0
82	Mh	1	43	33	4	6	0
82	Mh	1	43	33	4	6	0
82	Mh	1	43	33	4	6	0
82	Nh	1	43	33	4	6	0
82	Nh	1	43	33	4	6	0
82	Oh	1	43	33	4	6	0
82	Oh	1	43	33	4	6	0
82	Oh	1	43	33	4	6	0
82	Ph	1	43	33	4	6	0
82	Ph	1	43	33	4	6	0
82	Qh	1	43	33	4	6	0
82	Qh	1	43	33	4	6	0
82	Qh	1	43	33	4	6	0
82	Rh	1	43	33	4	6	0
82	Rh	1	43	33	4	6	0
82	Sh	1	43	33	4	6	0
82	Sh	1	43	33	4	6	0
82	Sh	1	43	33	4	6	0
82	Th	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Th	1	Total 43	C 33	N 4	O 6	0
82	Uh	1	Total 43	C 33	N 4	O 6	0
82	Uh	1	Total 43	C 33	N 4	O 6	0
82	Uh	1	Total 43	C 33	N 4	O 6	0
82	Vh	1	Total 43	C 33	N 4	O 6	0
82	Vh	1	Total 43	C 33	N 4	O 6	0
82	Wh	1	Total 43	C 33	N 4	O 6	0
82	Wh	1	Total 43	C 33	N 4	O 6	0
82	Wh	1	Total 43	C 33	N 4	O 6	0
82	Xh	1	Total 43	C 33	N 4	O 6	0
82	Xh	1	Total 43	C 33	N 4	O 6	0
82	Yh	1	Total 43	C 33	N 4	O 6	0
82	Yh	1	Total 43	C 33	N 4	O 6	0
82	Yh	1	Total 43	C 33	N 4	O 6	0
82	Zh	1	Total 43	C 33	N 4	O 6	0
82	Zh	1	Total 43	C 33	N 4	O 6	0
82	Zh	1	Total 43	C 33	N 4	O 6	0
82	Zh	1	Total 43	C 33	N 4	O 6	0
82	Ai	1	Total 43	C 33	N 4	O 6	0
82	Ai	1	Total 43	C 33	N 4	O 6	0
82	Bi	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Bi	1	Total 43	C 33	N 4	O 6	0
82	Bi	1	Total 43	C 33	N 4	O 6	0
82	Ci	1	Total 43	C 33	N 4	O 6	0
82	Ci	1	Total 43	C 33	N 4	O 6	0
82	Di	1	Total 43	C 33	N 4	O 6	0
82	Di	1	Total 43	C 33	N 4	O 6	0
82	Di	1	Total 43	C 33	N 4	O 6	0
82	Ei	1	Total 43	C 33	N 4	O 6	0
82	Ei	1	Total 43	C 33	N 4	O 6	0
82	Fi	1	Total 43	C 33	N 4	O 6	0
82	Fi	1	Total 43	C 33	N 4	O 6	0
82	Fi	1	Total 43	C 33	N 4	O 6	0
82	Gi	1	Total 43	C 33	N 4	O 6	0
82	Gi	1	Total 43	C 33	N 4	O 6	0
82	Hi	1	Total 43	C 33	N 4	O 6	0
82	Hi	1	Total 43	C 33	N 4	O 6	0
82	Hi	1	Total 43	C 33	N 4	O 6	0
82	Ii	1	Total 43	C 33	N 4	O 6	0
82	Ii	1	Total 43	C 33	N 4	O 6	0
82	Ji	1	Total 43	C 33	N 4	O 6	0
82	Ji	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Ji	1	43	33	4	6	0
82	Ki	1	43	33	4	6	0
82	Ki	1	43	33	4	6	0
82	Li	1	43	33	4	6	0
82	Li	1	43	33	4	6	0
82	Li	1	43	33	4	6	0
82	Mi	1	43	33	4	6	0
82	Mi	1	43	33	4	6	0
82	Ni	1	43	33	4	6	0
82	Ni	1	43	33	4	6	0
82	Ni	1	43	33	4	6	0
82	Oi	1	43	33	4	6	0
82	Oi	1	43	33	4	6	0
82	Pi	1	43	33	4	6	0
82	Pi	1	43	33	4	6	0
82	Pi	1	43	33	4	6	0
82	Qi	1	43	33	4	6	0
82	Qi	1	43	33	4	6	0
82	Ri	1	43	33	4	6	0
82	Ri	1	43	33	4	6	0
82	Ri	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Si	1	43	33	4	6	0
82	Si	1	43	33	4	6	0
82	Ti	1	43	33	4	6	0
82	Ti	1	43	33	4	6	0
82	Ti	1	43	33	4	6	0
82	Ui	1	43	33	4	6	0
82	Ui	1	43	33	4	6	0
82	Vi	1	43	33	4	6	0
82	Vi	1	43	33	4	6	0
82	Vi	1	43	33	4	6	0
82	Wi	1	43	33	4	6	0
82	Wi	1	43	33	4	6	0
82	Xi	1	43	33	4	6	0
82	Xi	1	43	33	4	6	0
82	Xi	1	43	33	4	6	0
82	Yi	1	43	33	4	6	0
82	Yi	1	43	33	4	6	0
82	Yi	1	43	33	4	6	0
82	ei	1	43	33	4	6	0
82	Aj	1	43	33	4	6	0
82	Aj	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Aj	1	Total 43	C 33	N 4	O 6	0
82	Dj	1	Total 43	C 33	N 4	O 6	0
82	Fj	1	Total 43	C 33	N 4	O 6	0
82	Hj	1	Total 43	C 33	N 4	O 6	0
82	Jj	1	Total 43	C 33	N 4	O 6	0
82	Lj	1	Total 43	C 33	N 4	O 6	0
82	Nj	1	Total 43	C 33	N 4	O 6	0
82	Oj	1	Total 43	C 33	N 4	O 6	0
82	Oj	1	Total 43	C 33	N 4	O 6	0
82	Pj	1	Total 43	C 33	N 4	O 6	0
82	Pj	1	Total 43	C 33	N 4	O 6	0
82	Pj	1	Total 43	C 33	N 4	O 6	0
82	Qj	1	Total 43	C 33	N 4	O 6	0
82	Qj	1	Total 43	C 33	N 4	O 6	0
82	Rj	1	Total 43	C 33	N 4	O 6	0
82	Rj	1	Total 43	C 33	N 4	O 6	0
82	Rj	1	Total 43	C 33	N 4	O 6	0
82	Sj	1	Total 43	C 33	N 4	O 6	0
82	Sj	1	Total 43	C 33	N 4	O 6	0
82	Tj	1	Total 43	C 33	N 4	O 6	0
82	Tj	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Tj	1	43	33	4	6	0
82	Uj	1	43	33	4	6	0
82	Uj	1	43	33	4	6	0
82	Vj	1	43	33	4	6	0
82	Vj	1	43	33	4	6	0
82	Wj	1	43	33	4	6	0
82	Yj	1	43	33	4	6	0
82	Yj	1	43	33	4	6	0
82	Yj	1	43	33	4	6	0
82	Zj	1	43	33	4	6	0
82	Zj	1	43	33	4	6	0
82	aj	1	43	33	4	6	0
82	aj	1	43	33	4	6	0
82	aj	1	43	33	4	6	0
82	bj	1	43	33	4	6	0
82	bj	1	43	33	4	6	0
82	cj	1	43	33	4	6	0
82	cj	1	43	33	4	6	0
82	cj	1	43	33	4	6	0
82	dj	1	43	33	4	6	0
82	dj	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	ej	1	43	33	4	6	0
82	ej	1	43	33	4	6	0
82	ej	1	43	33	4	6	0
82	fj	1	43	33	4	6	0
82	fj	1	43	33	4	6	0
82	gj	1	43	33	4	6	0
82	gj	1	43	33	4	6	0
82	gj	1	43	33	4	6	0
82	hj	1	43	33	4	6	0
82	hj	1	43	33	4	6	0
82	ij	1	43	33	4	6	0
82	ij	1	43	33	4	6	0
82	ij	1	43	33	4	6	0
82	jj	1	43	33	4	6	0
82	jj	1	43	33	4	6	0
82	kj	1	43	33	4	6	0
82	kj	1	43	33	4	6	0
82	kj	1	43	33	4	6	0
82	lj	1	43	33	4	6	0
82	lj	1	43	33	4	6	0
82	mj	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	mj	1	43	33	4	6	0
82	mj	1	43	33	4	6	0
82	Ak	1	43	33	4	6	0
82	Ak	1	43	33	4	6	0
82	Ak	1	43	33	4	6	0
82	Bk	1	43	33	4	6	0
82	Bk	1	43	33	4	6	0
82	Ck	1	43	33	4	6	0
82	Ck	1	43	33	4	6	0
82	Ck	1	43	33	4	6	0
82	Dk	1	43	33	4	6	0
82	Dk	1	43	33	4	6	0
82	Ek	1	43	33	4	6	0
82	Ek	1	43	33	4	6	0
82	Fk	1	43	33	4	6	0
82	Fk	1	43	33	4	6	0
82	Gk	1	43	33	4	6	0
82	Gk	1	43	33	4	6	0
82	Gk	1	43	33	4	6	0
82	Hk	1	43	33	4	6	0
82	Hk	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Hk	1	43	33	4	6	0
82	Ik	1	43	33	4	6	0
82	Ik	1	43	33	4	6	0
82	Ik	1	43	33	4	6	0
82	Jk	1	43	33	4	6	0
82	Jk	1	43	33	4	6	0
82	Kk	1	43	33	4	6	0
82	Kk	1	43	33	4	6	0
82	Kk	1	43	33	4	6	0
82	Lk	1	43	33	4	6	0
82	Lk	1	43	33	4	6	0
82	Nk	1	43	33	4	6	0
82	Nk	1	43	33	4	6	0
82	Nk	1	43	33	4	6	0
82	Ok	1	43	33	4	6	0
82	Ok	1	43	33	4	6	0
82	Ok	1	43	33	4	6	0
82	Pk	1	43	33	4	6	0
82	Pk	1	43	33	4	6	0
82	Qk	1	43	33	4	6	0
82	Qk	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Rk	1	43	33	4	6	0
82	Rk	1	43	33	4	6	0
82	Rk	1	43	33	4	6	0
82	Sk	1	43	33	4	6	0
82	Sk	1	43	33	4	6	0
82	Tk	1	43	33	4	6	0
82	Tk	1	43	33	4	6	0
82	Tk	1	43	33	4	6	0
82	Uk	1	43	33	4	6	0
82	Uk	1	43	33	4	6	0
82	Vk	1	43	33	4	6	0
82	Vk	1	43	33	4	6	0
82	Vk	1	43	33	4	6	0
82	Wk	1	43	33	4	6	0
82	Wk	1	43	33	4	6	0
82	Wk	1	43	33	4	6	0
82	Xk	1	43	33	4	6	0
82	Xk	1	43	33	4	6	0
82	Yk	1	43	33	4	6	0
82	Yk	1	43	33	4	6	0
82	Zk	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Al	1	43	33	4	6	0
82	Al	1	43	33	4	6	0
82	Al	1	43	33	4	6	0
82	Cl	1	43	33	4	6	0
82	Dl	1	43	33	4	6	0
82	Fl	1	43	33	4	6	0
82	Hl	1	43	33	4	6	0
82	Jl	1	43	33	4	6	0
82	Ll	1	43	33	4	6	0
82	Nl	1	43	33	4	6	0
82	Ol	1	43	33	4	6	0
82	Ol	1	43	33	4	6	0
82	Ol	1	43	33	4	6	0
82	Pl	1	43	33	4	6	0
82	Pl	1	43	33	4	6	0
82	Ql	1	43	33	4	6	0
82	Ql	1	43	33	4	6	0
82	Ql	1	43	33	4	6	0
82	Rl	1	43	33	4	6	0
82	Rl	1	43	33	4	6	0
82	Sl	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Sl	1	43	33	4	6	0
82	Tl	1	43	33	4	6	0
82	Tl	1	43	33	4	6	0
82	Ul	1	43	33	4	6	0
82	Ul	1	43	33	4	6	0
82	Ul	1	43	33	4	6	0
82	Vl	1	43	33	4	6	0
82	Vl	1	43	33	4	6	0
82	Vl	1	43	33	4	6	0
82	Wl	1	43	33	4	6	0
82	Wl	1	43	33	4	6	0
82	Wl	1	43	33	4	6	0
82	Yl	1	43	33	4	6	0
82	Yl	1	43	33	4	6	0
82	Zl	1	43	33	4	6	0
82	Zl	1	43	33	4	6	0
82	Zl	1	43	33	4	6	0
82	al	1	43	33	4	6	0
82	al	1	43	33	4	6	0
82	bl	1	43	33	4	6	0
82	bl	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	bl	1	43	33	4	6	0
82	cl	1	43	33	4	6	0
82	cl	1	43	33	4	6	0
82	dl	1	43	33	4	6	0
82	dl	1	43	33	4	6	0
82	dl	1	43	33	4	6	0
82	el	1	43	33	4	6	0
82	el	1	43	33	4	6	0
82	fl	1	43	33	4	6	0
82	fl	1	43	33	4	6	0
82	fl	1	43	33	4	6	0
82	gl	1	43	33	4	6	0
82	gl	1	43	33	4	6	0
82	hl	1	43	33	4	6	0
82	hl	1	43	33	4	6	0
82	hl	1	43	33	4	6	0
82	il	1	43	33	4	6	0
82	il	1	43	33	4	6	0
82	jl	1	43	33	4	6	0
82	jl	1	43	33	4	6	0
82	jl	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	kl	1	43	33	4	6	0
82	kl	1	43	33	4	6	0
82	ll	1	43	33	4	6	0
82	ll	1	43	33	4	6	0
82	ll	1	43	33	4	6	0
82	ml	1	43	33	4	6	0
82	ml	1	43	33	4	6	0
82	An	1	43	33	4	6	0
82	An	1	43	33	4	6	0
82	An	1	43	33	4	6	0
82	Dn	1	43	33	4	6	0
82	Fn	1	43	33	4	6	0
82	Hn	1	43	33	4	6	0
82	Jn	1	43	33	4	6	0
82	Ln	1	43	33	4	6	0
82	Nn	1	43	33	4	6	0
82	On	1	43	33	4	6	0
82	On	1	43	33	4	6	0
82	Pn	1	43	33	4	6	0
82	Pn	1	43	33	4	6	0
82	Pn	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Qn	1	43	33	4	6	0
82	Qn	1	43	33	4	6	0
82	Rn	1	43	33	4	6	0
82	Rn	1	43	33	4	6	0
82	Rn	1	43	33	4	6	0
82	Sn	1	43	33	4	6	0
82	Sn	1	43	33	4	6	0
82	Tn	1	43	33	4	6	0
82	Tn	1	43	33	4	6	0
82	Tn	1	43	33	4	6	0
82	Un	1	43	33	4	6	0
82	Un	1	43	33	4	6	0
82	Vn	1	43	33	4	6	0
82	Vn	1	43	33	4	6	0
82	Wn	1	43	33	4	6	0
82	Yn	1	43	33	4	6	0
82	Yn	1	43	33	4	6	0
82	Yn	1	43	33	4	6	0
82	Zn	1	43	33	4	6	0
82	Zn	1	43	33	4	6	0
82	an	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	an	1	Total 43	C 33	N 4	O 6	0
82	an	1	Total 43	C 33	N 4	O 6	0
82	bn	1	Total 43	C 33	N 4	O 6	0
82	bn	1	Total 43	C 33	N 4	O 6	0
82	cn	1	Total 43	C 33	N 4	O 6	0
82	cn	1	Total 43	C 33	N 4	O 6	0
82	cn	1	Total 43	C 33	N 4	O 6	0
82	dn	1	Total 43	C 33	N 4	O 6	0
82	dn	1	Total 43	C 33	N 4	O 6	0
82	en	1	Total 43	C 33	N 4	O 6	0
82	en	1	Total 43	C 33	N 4	O 6	0
82	en	1	Total 43	C 33	N 4	O 6	0
82	fn	1	Total 43	C 33	N 4	O 6	0
82	fn	1	Total 43	C 33	N 4	O 6	0
82	gn	1	Total 43	C 33	N 4	O 6	0
82	gn	1	Total 43	C 33	N 4	O 6	0
82	gn	1	Total 43	C 33	N 4	O 6	0
82	hn	1	Total 43	C 33	N 4	O 6	0
82	hn	1	Total 43	C 33	N 4	O 6	0
82	in	1	Total 43	C 33	N 4	O 6	0
82	in	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	in	1	43	33	4	6	0
82	jn	1	43	33	4	6	0
82	jn	1	43	33	4	6	0
82	kn	1	43	33	4	6	0
82	kn	1	43	33	4	6	0
82	kn	1	43	33	4	6	0
82	ln	1	43	33	4	6	0
82	ln	1	43	33	4	6	0
82	mn	1	43	33	4	6	0
82	mn	1	43	33	4	6	0
82	mn	1	43	33	4	6	0
82	Ap	1	43	33	4	6	0
82	Ap	1	43	33	4	6	0
82	Bp	1	43	33	4	6	0
82	Cp	1	43	33	4	6	0
82	Cp	1	43	33	4	6	0
82	Cp	1	43	33	4	6	0
82	Dp	1	43	33	4	6	0
82	Dp	1	43	33	4	6	0
82	Ep	1	43	33	4	6	0
82	Ep	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Ep	1	43	33	4	6	0
82	Fp	1	43	33	4	6	0
82	Fp	1	43	33	4	6	0
82	Gp	1	43	33	4	6	0
82	Gp	1	43	33	4	6	0
82	Gp	1	43	33	4	6	0
82	Hp	1	43	33	4	6	0
82	Hp	1	43	33	4	6	0
82	Ip	1	43	33	4	6	0
82	Ip	1	43	33	4	6	0
82	Ip	1	43	33	4	6	0
82	Jp	1	43	33	4	6	0
82	Jp	1	43	33	4	6	0
82	Kp	1	43	33	4	6	0
82	Kp	1	43	33	4	6	0
82	Kp	1	43	33	4	6	0
82	Lp	1	43	33	4	6	0
82	Lp	1	43	33	4	6	0
82	Mp	1	43	33	4	6	0
82	Mp	1	43	33	4	6	0
82	Mp	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Np	1	43	33	4	6	0
82	Np	1	43	33	4	6	0
82	Op	1	43	33	4	6	0
82	Op	1	43	33	4	6	0
82	Op	1	43	33	4	6	0
82	Pp	1	43	33	4	6	0
82	Pp	1	43	33	4	6	0
82	Qp	1	43	33	4	6	0
82	Qp	1	43	33	4	6	0
82	Qp	1	43	33	4	6	0
82	Rp	1	43	33	4	6	0
82	Rp	1	43	33	4	6	0
82	Sp	1	43	33	4	6	0
82	Sp	1	43	33	4	6	0
82	Sp	1	43	33	4	6	0
82	Tp	1	43	33	4	6	0
82	Tp	1	43	33	4	6	0
82	Up	1	43	33	4	6	0
82	Up	1	43	33	4	6	0
82	Up	1	43	33	4	6	0
82	Vp	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	Vp	1	43	33	4	6	0
82	Wp	1	43	33	4	6	0
82	Wp	1	43	33	4	6	0
82	Wp	1	43	33	4	6	0
82	Xp	1	43	33	4	6	0
82	Xp	1	43	33	4	6	0
82	Yp	1	43	33	4	6	0
82	Yp	1	43	33	4	6	0
82	Yp	1	43	33	4	6	0
82	Zp	1	43	33	4	6	0
82	Zp	1	43	33	4	6	0
82	ap	1	43	33	4	6	0
82	ap	1	43	33	4	6	0
82	ap	1	43	33	4	6	0
82	ap	1	43	33	4	6	0
82	cp	1	43	33	4	6	0
82	cp	1	43	33	4	6	0
82	dp	1	43	33	4	6	0
82	dp	1	43	33	4	6	0
82	ep	1	43	33	4	6	0
82	ep	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
82	fp	1	43	33	4	6	0
82	fp	1	43	33	4	6	0
82	fp	1	43	33	4	6	0
82	gp	1	43	33	4	6	0
82	gp	1	43	33	4	6	0
82	hp	1	43	33	4	6	0
82	hp	1	43	33	4	6	0
82	hp	1	43	33	4	6	0
82	ip	1	43	33	4	6	0
82	ip	1	43	33	4	6	0
82	jp	1	43	33	4	6	0
82	jp	1	43	33	4	6	0
82	jp	1	43	33	4	6	0
82	kp	1	43	33	4	6	0
82	kp	1	43	33	4	6	0
82	lp	1	43	33	4	6	0
82	lp	1	43	33	4	6	0
82	lp	1	43	33	4	6	0
82	mp	1	43	33	4	6	0
82	mp	1	43	33	4	6	0

- Molecule 83 is PHYCOUROBILIN (three-letter code: PUB) (formula: C₃₃H₄₂N₄O₆).

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
83	x6	1	Total 43	C 33	N 4	O 6	0
83	x6	1	Total 43	C 33	N 4	O 6	0
83	y6	1	Total 43	C 33	N 4	O 6	0
83	y6	1	Total 43	C 33	N 4	O 6	0
83	A8	1	Total 43	C 33	N 4	O 6	0
83	A8	1	Total 43	C 33	N 4	O 6	0
83	AC	1	Total 43	C 33	N 4	O 6	0
83	AC	1	Total 43	C 33	N 4	O 6	0
83	BC	1	Total 43	C 33	N 4	O 6	0
83	QC	1	Total 43	C 33	N 4	O 6	0
83	KD	1	Total 43	C 33	N 4	O 6	0
83	YD	1	Total 43	C 33	N 4	O 6	0
83	AF	1	Total 43	C 33	N 4	O 6	0
83	NF	1	Total 43	C 33	N 4	O 6	0
83	MH	1	Total 43	C 33	N 4	O 6	0
83	MH	1	Total 43	C 33	N 4	O 6	0
83	ZH	1	Total 43	C 33	N 4	O 6	0
83	ZH	1	Total 43	C 33	N 4	O 6	0
83	AI	1	Total 43	C 33	N 4	O 6	0
83	AI	1	Total 43	C 33	N 4	O 6	0
83	AK	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
83	AK	1	43	33	4	6	0
83	AM	1	43	33	4	6	0
83	NM	1	43	33	4	6	0
83	AP	1	43	33	4	6	0
83	AP	1	43	33	4	6	0
83	wQ	1	43	33	4	6	0
83	xQ	1	43	33	4	6	0
83	xQ	1	43	33	4	6	0
83	xQ	1	43	33	4	6	0
83	yQ	1	43	33	4	6	0
83	yQ	1	43	33	4	6	0
83	AR	1	43	33	4	6	0
83	AR	1	43	33	4	6	0
83	AS	1	43	33	4	6	0
83	AS	1	43	33	4	6	0
83	wT	1	43	33	4	6	0
83	xT	1	43	33	4	6	0
83	xT	1	43	33	4	6	0
83	xT	1	43	33	4	6	0
83	yT	1	43	33	4	6	0
83	yT	1	43	33	4	6	0

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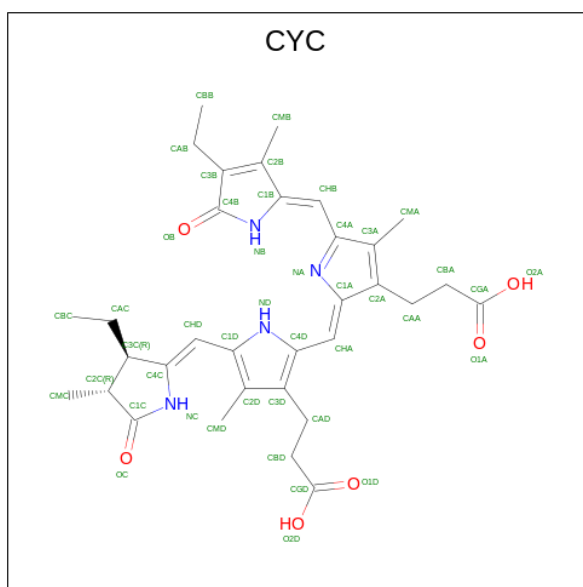
Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
83	AV	1	Total 43	C 33	N 4	O 6	0
83	AV	1	Total 43	C 33	N 4	O 6	0
83	BV	1	Total 43	C 33	N 4	O 6	0
83	QV	1	Total 43	C 33	N 4	O 6	0
83	Ca	1	Total 43	C 33	N 4	O 6	0
83	Ma	1	Total 43	C 33	N 4	O 6	0
83	Za	1	Total 43	C 33	N 4	O 6	0
83	Za	1	Total 43	C 33	N 4	O 6	0
83	wb	1	Total 43	C 33	N 4	O 6	0
83	xb	1	Total 43	C 33	N 4	O 6	0
83	xb	1	Total 43	C 33	N 4	O 6	0
83	xb	1	Total 43	C 33	N 4	O 6	0
83	yb	1	Total 43	C 33	N 4	O 6	0
83	yb	1	Total 43	C 33	N 4	O 6	0
83	Ac	1	Total 43	C 33	N 4	O 6	0
83	Nc	1	Total 43	C 33	N 4	O 6	0
83	Ae	1	Total 43	C 33	N 4	O 6	0
83	Ae	1	Total 43	C 33	N 4	O 6	0
83	Cf	1	Total 43	C 33	N 4	O 6	0
83	Mf	1	Total 43	C 33	N 4	O 6	0
83	Zf	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
83	Zf	1	43	33	4	6	0
83	Kg	1	43	33	4	6	0
83	Yg	1	43	33	4	6	0
83	Mh	1	43	33	4	6	0
83	Mh	1	43	33	4	6	0
83	Zh	1	43	33	4	6	0
83	Zh	1	43	33	4	6	0
83	Ki	1	43	33	4	6	0
83	Yi	1	43	33	4	6	0
83	Aj	1	43	33	4	6	0
83	Aj	1	43	33	4	6	0
83	Al	1	43	33	4	6	0
83	Al	1	43	33	4	6	0
83	An	1	43	33	4	6	0
83	An	1	43	33	4	6	0
83	Ap	1	43	33	4	6	0
83	Ap	1	43	33	4	6	0
83	Bp	1	43	33	4	6	0
83	Qp	1	43	33	4	6	0

- Molecule 84 is PHYCOCYANOBILIN (three-letter code: CYC) (formula: $C_{33}H_{40}N_4O_6$).



Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		
84	B1	1	Total	C	N	O	0	
			43	33	4	6		
84	B1	1	Total	C	N	O	0	
			43	33	4	6		
84	B1	1	Total	C	H	N	O	0
			81	33	38	4	6	
84	D1	1	Total	C	N	O	0	
			43	33	4	6		
84	E1	1	Total	C	N	O	0	
			43	33	4	6		
84	F1	1	Total	C	N	O	0	
			43	33	4	6		
84	F1	1	Total	C	N	O	0	
			43	33	4	6		
84	G1	1	Total	C	N	O	0	
			43	33	4	6		
84	H1	1	Total	C	N	O	0	
			43	33	4	6		
84	I1	1	Total	C	N	O	0	
			43	33	4	6		
84	L1	1	Total	C	N	O	0	
			43	33	4	6		
84	M1	1	Total	C	N	O	0	
			43	33	4	6		
84	N1	1	Total	C	N	O	0	
			43	33	4	6		
84	C4	1	Total	C	N	O	0	
			43	33	4	6		

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
84	D4	1	43	33	4	6	0
84	E4	1	43	33	4	6	0
84	F4	1	43	33	4	6	0
84	G4	1	43	33	4	6	0
84	H4	1	43	33	4	6	0
84	I4	1	43	33	4	6	0
84	J4	1	43	33	4	6	0
84	K4	1	43	33	4	6	0
84	L4	1	43	33	4	6	0
84	M4	1	43	33	4	6	0
84	N4	1	43	33	4	6	0
84	B8	1	43	33	4	6	0
84	B8	1	43	33	4	6	0
84	B8	1	81	33	38	4 6	0
84	C8	1	43	33	4	6	0
84	D8	1	43	33	4	6	0
84	E8	1	43	33	4	6	0
84	F8	1	43	33	4	6	0
84	G8	1	43	33	4	6	0
84	H8	1	43	33	4	6	0
84	I8	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
84	L8	1	43	33	4	6	0
84	M8	1	43	33	4	6	0
84	N8	1	43	33	4	6	0
84	6B	1	81	33	38	4	6
84	7B	1	81	33	38	4	6
84	7B	1	81	33	38	4	6
84	AB	1	81	33	38	4	6
84	BB	1	81	33	38	4	6
84	CB	1	81	33	38	4	6
84	DB	1	81	33	38	4	6
84	EB	1	81	33	38	4	6
84	FB	1	81	33	38	4	6
84	GB	1	81	33	38	4	6
84	HB	1	81	33	38	4	6
84	IB	1	81	33	38	4	6
84	JB	1	81	33	38	4	6
84	KB	1	81	33	38	4	6
84	LB	1	81	33	38	4	6
84	MB	1	81	33	38	4	6
84	NB	1	81	33	38	4	6
84	OB	1	81	33	38	4	6

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	H	N	O	
84	PB	1	81	33	38	4	6	0
84	QB	1	81	33	38	4	6	0
84	RB	1	81	33	38	4	6	0
84	SB	1	81	33	38	4	6	0
84	UB	1	81	33	38	4	6	0
84	VB	1	81	33	38	4	6	0
84	WB	1	81	33	38	4	6	0
84	cB	1	81	33	38	4	6	0
84	dB	1	81	33	38	4	6	0
84	eB	1	81	33	38	4	6	0
84	fB	1	81	33	38	4	6	0
84	gB	1	81	33	38	4	6	0
84	hB	1	81	33	38	4	6	0
84	iB	1	81	33	38	4	6	0
84	jB	1	81	33	38	4	6	0
84	kB	1	81	33	38	4	6	0
84	lB	1	81	33	38	4	6	0
84	mB	1	81	33	38	4	6	0
84	nB	1	81	33	38	4	6	0
84	oB	1	81	33	38	4	6	0
84	pB	1	81	33	38	4	6	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	H	N	O	
84	qB	1	Total 81	C 33	H 38	N 4	O 6	0
84	tB	1	Total 81	C 33	H 38	N 4	O 6	0
84	uB	1	Total 81	C 33	H 38	N 4	O 6	0
84	wB	1	Total 81	C 33	H 38	N 4	O 6	0
84	xB	1	Total 81	C 33	H 38	N 4	O 6	0
84	yB	1	Total 81	C 33	H 38	N 4	O 6	0
84	CI	1	Total 43	C 33	N 4	O 6		0
84	DI	1	Total 43	C 33	N 4	O 6		0
84	DI	1	Total 43	C 33	N 4	O 6		0
84	EI	1	Total 43	C 33	N 4	O 6		0
84	FI	1	Total 43	C 33	N 4	O 6		0
84	HI	1	Total 43	C 33	N 4	O 6		0
84	II	1	Total 43	C 33	N 4	O 6		0
84	JI	1	Total 43	C 33	N 4	O 6		0
84	KI	1	Total 43	C 33	N 4	O 6		0
84	LI	1	Total 43	C 33	N 4	O 6		0
84	MI	1	Total 43	C 33	N 4	O 6		0
84	NI	1	Total 43	C 33	N 4	O 6		0
84	BK	1	Total 43	C 33	N 4	O 6		0
84	BK	1	Total 43	C 33	N 4	O 6		0
84	CK	1	Total 43	C 33	N 4	O 6		0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
84	DK	1	43	33	4	6	0
84	EK	1	43	33	4	6	0
84	FK	1	43	33	4	6	0
84	GK	1	43	33	4	6	0
84	HK	1	43	33	4	6	0
84	IK	1	43	33	4	6	0
84	KK	1	43	33	4	6	0
84	LK	1	43	33	4	6	0
84	MK	1	43	33	4	6	0
84	CP	1	43	33	4	6	0
84	DP	1	43	33	4	6	0
84	DP	1	43	33	4	6	0
84	EP	1	43	33	4	6	0
84	FP	1	43	33	4	6	0
84	HP	1	43	33	4	6	0
84	IP	1	43	33	4	6	0
84	JP	1	43	33	4	6	0
84	JP	1	43	33	4	6	0
84	KP	1	43	33	4	6	0
84	LP	1	43	33	4	6	0
84	NP	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
84	BR	1	43	33	4	6	0
84	BR	1	43	33	4	6	0
84	CR	1	43	33	4	6	0
84	DR	1	43	33	4	6	0
84	ER	1	43	33	4	6	0
84	FR	1	43	33	4	6	0
84	GR	1	43	33	4	6	0
84	HR	1	43	33	4	6	0
84	IR	1	43	33	4	6	0
84	KR	1	43	33	4	6	0
84	LR	1	43	33	4	6	0
84	MR	1	43	33	4	6	0
84	CS	1	43	33	4	6	0
84	DS	1	43	33	4	6	0
84	DS	1	43	33	4	6	0
84	ES	1	43	33	4	6	0
84	FS	1	43	33	4	6	0
84	HS	1	43	33	4	6	0
84	JS	1	43	33	4	6	0
84	JS	1	43	33	4	6	0
84	KS	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		
84	LS	1	43	33	4	6	0	
84	LS	1	43	33	4	6	0	
84	NS	1	43	33	4	6	0	
84	6d	1	81	33	38	4	6	0
84	7d	1	81	33	38	4	6	0
84	7d	1	81	33	38	4	6	0
84	Ad	1	81	33	38	4	6	0
84	Bd	1	81	33	38	4	6	0
84	Cd	1	81	33	38	4	6	0
84	Dd	1	81	33	38	4	6	0
84	Ed	1	81	33	38	4	6	0
84	Fd	1	81	33	38	4	6	0
84	Gd	1	81	33	38	4	6	0
84	Hd	1	81	33	38	4	6	0
84	Id	1	81	33	38	4	6	0
84	Jd	1	81	33	38	4	6	0
84	Kd	1	81	33	38	4	6	0
84	Ld	1	81	33	38	4	6	0
84	Md	1	81	33	38	4	6	0
84	Nd	1	81	33	38	4	6	0
84	Od	1	81	33	38	4	6	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	H	N	O	
84	Pd	1	81	33	38	4	6	0
84	Qd	1	81	33	38	4	6	0
84	Rd	1	81	33	38	4	6	0
84	Sd	1	81	33	38	4	6	0
84	Td	1	81	33	38	4	6	0
84	Ud	1	81	33	38	4	6	0
84	Vd	1	81	33	38	4	6	0
84	Wd	1	81	33	38	4	6	0
84	cd	1	81	33	38	4	6	0
84	dd	1	81	33	38	4	6	0
84	ed	1	81	33	38	4	6	0
84	fd	1	81	33	38	4	6	0
84	gd	1	81	33	38	4	6	0
84	hd	1	81	33	38	4	6	0
84	id	1	81	33	38	4	6	0
84	jd	1	81	33	38	4	6	0
84	kd	1	81	33	38	4	6	0
84	ld	1	81	33	38	4	6	0
84	md	1	81	33	38	4	6	0
84	nd	1	81	33	38	4	6	0
84	od	1	81	33	38	4	6	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	H	N	O	
84	pd	1	Total 81	C 33	H 38	N 4	O 6	0
84	qd	1	Total 81	C 33	H 38	N 4	O 6	0
84	td	1	Total 81	C 33	H 38	N 4	O 6	0
84	ud	1	Total 81	C 33	H 38	N 4	O 6	0
84	vd	1	Total 81	C 33	H 38	N 4	O 6	0
84	wd	1	Total 81	C 33	H 38	N 4	O 6	0
84	xd	1	Total 81	C 33	H 38	N 4	O 6	0
84	yd	1	Total 81	C 33	H 38	N 4	O 6	0
84	Ce	1	Total 43	C 33	N 4	O 6		0
84	De	1	Total 43	C 33	N 4	O 6		0
84	Ee	1	Total 43	C 33	N 4	O 6		0
84	Fe	1	Total 43	C 33	N 4	O 6		0
84	Ge	1	Total 43	C 33	N 4	O 6		0
84	He	1	Total 43	C 33	N 4	O 6		0
84	Ie	1	Total 43	C 33	N 4	O 6		0
84	Je	1	Total 43	C 33	N 4	O 6		0
84	Ke	1	Total 43	C 33	N 4	O 6		0
84	Le	1	Total 43	C 33	N 4	O 6		0
84	Me	1	Total 43	C 33	N 4	O 6		0
84	Ne	1	Total 43	C 33	N 4	O 6		0
84	Bj	1	Total 81	C 33	H 38	N 4	O 6	0

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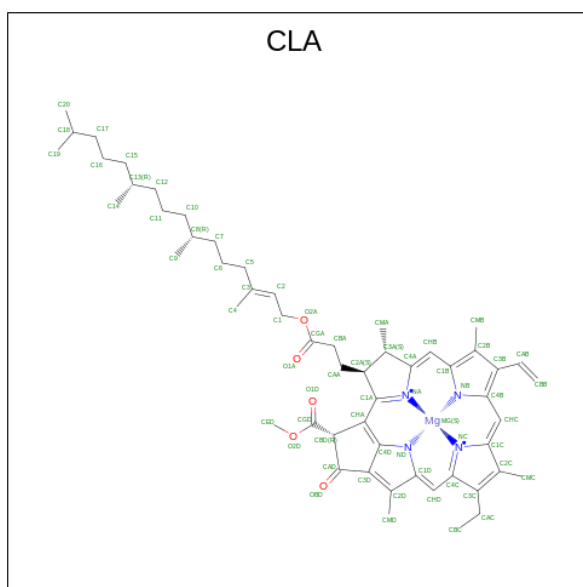
Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
84	Cj	1	43	33	4	6	0
84	Dj	1	43	33	4	6	0
84	Ej	1	43	33	4	6	0
84	Fj	1	43	33	4	6	0
84	Gj	1	43	33	4	6	0
84	Hj	1	43	33	4	6	0
84	Ij	1	43	33	4	6	0
84	Jj	1	43	33	4	6	0
84	Kj	1	43	33	4	6	0
84	Lj	1	43	33	4	6	0
84	Mj	1	43	33	4	6	0
84	Nj	1	43	33	4	6	0
84	Cl	1	43	33	4	6	0
84	Dl	1	43	33	4	6	0
84	Dl	1	43	33	4	6	0
84	El	1	43	33	4	6	0
84	Fl	1	43	33	4	6	0
84	Hl	1	43	33	4	6	0
84	Il	1	43	33	4	6	0
84	Jl	1	43	33	4	6	0
84	Kl	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
84	Ll	1	Total	C	N	O	0
			43	33	4	6	
84	Ml	1	Total	C	N	O	0
			43	33	4	6	
84	Nl	1	Total	C	N	O	0
			43	33	4	6	
84	Bn	1	Total	C	H	N	O
			81	33	38	4	6
84	Cn	1	Total	C	N	O	0
			43	33	4	6	
84	Dn	1	Total	C	N	O	0
			43	33	4	6	
84	En	1	Total	C	N	O	0
			43	33	4	6	
84	Fn	1	Total	C	N	O	0
			43	33	4	6	
84	Gn	1	Total	C	N	O	0
			43	33	4	6	
84	Hn	1	Total	C	N	O	0
			43	33	4	6	
84	In	1	Total	C	N	O	0
			43	33	4	6	
84	Jn	1	Total	C	N	O	0
			43	33	4	6	
84	Kn	1	Total	C	N	O	0
			43	33	4	6	
84	Ln	1	Total	C	N	O	0
			43	33	4	6	
84	Mn	1	Total	C	N	O	0
			43	33	4	6	
84	Nn	1	Total	C	N	O	0
			43	33	4	6	

- Molecule 85 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



Mol	Chain	Residues	Atoms				AltConf	
85	17	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
85	17	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
85	17	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
85	17	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
85	17	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
85	17	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
85	17	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
85	17	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
85	17	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
85	17	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
85	17	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
85	27	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
85	27	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
85	27	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	27	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	27	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	27	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	27	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	27	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	27	1	Total 41	C 33	Mg 1	N 4	O 3	0
85	27	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	27	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	27	1	Total 54	C 44	Mg 1	N 4	O 5	0
85	37	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	37	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	37	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	37	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	37	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	37	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	37	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	37	1	Total 41	C 33	Mg 1	N 4	O 3	0
85	37	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	37	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	37	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	37	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	37	1	Total 45	C 35	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	47	1	45	35	1	4	5	0
85	47	1	65	55	1	4	5	0
85	47	1	45	35	1	4	5	0
85	47	1	42	34	1	4	3	0
85	47	1	45	35	1	4	5	0
85	47	1	45	35	1	4	5	0
85	47	1	45	35	1	4	5	0
85	47	1	50	40	1	4	5	0
85	47	1	41	33	1	4	3	0
85	47	1	42	34	1	4	3	0
85	47	1	45	35	1	4	5	0
85	57	1	45	35	1	4	5	0
85	57	1	65	55	1	4	5	0
85	57	1	45	35	1	4	5	0
85	57	1	42	34	1	4	3	0
85	57	1	45	35	1	4	5	0
85	57	1	45	35	1	4	5	0
85	57	1	50	40	1	4	5	0
85	57	1	41	33	1	4	3	0
85	57	1	42	34	1	4	3	0
85	57	1	45	35	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	57	1	45	35	1	4	5	0
85	67	1	45	35	1	4	5	0
85	67	1	65	55	1	4	5	0
85	67	1	45	35	1	4	5	0
85	67	1	42	34	1	4	3	0
85	67	1	45	35	1	4	5	0
85	67	1	45	35	1	4	5	0
85	67	1	45	35	1	4	5	0
85	67	1	50	40	1	4	5	0
85	67	1	41	33	1	4	3	0
85	67	1	42	34	1	4	3	0
85	67	1	45	35	1	4	5	0
85	67	1	45	35	1	4	5	0
85	67	1	45	35	1	4	5	0
85	67	1	45	35	1	4	5	0
85	77	1	45	35	1	4	5	0
85	77	1	65	55	1	4	5	0
85	77	1	45	35	1	4	5	0
85	77	1	42	34	1	4	3	0
85	77	1	45	35	1	4	5	0
85	77	1	45	35	1	4	5	0
85	77	1	50	40	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	77	1	Total 41	C 33	Mg 1	N 4	O 3	0
85	77	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	77	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	87	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	87	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	87	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	87	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	87	1	Total 46	C 36	Mg 1	N 4	O 5	0
85	87	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	87	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	87	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	A7	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	A7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	A7	1	Total 55	C 45	Mg 1	N 4	O 5	0
85	A7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	A7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	A7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	A7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	A7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	A7	1	Total 55	C 45	Mg 1	N 4	O 5	0
85	A7	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	A7	1	54	44	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	45	35	1	4	5	0
85	A7	1	42	34	1	4	3	0
85	A7	1	45	35	1	4	5	0
85	A7	1	62	52	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	45	35	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	51	41	1	4	5	0
85	A7	1	55	45	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	55	45	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	50	40	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	A7	1	65	55	1	4	5	0
85	A7	1	45	35	1	4	5	0
85	A7	1	51	41	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	65	55	1	4	5	0
85	A7	1	45	36	1	4	4	0
85	A7	1	65	55	1	4	5	0
85	A7	1	52	42	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	55	45	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B7	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	B7	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	B7	1	Total 55	C 45	Mg 1	N 4	O 5	0
85	B7	1	Total 59	C 49	Mg 1	N 4	O 5	0
85	B7	1	Total 60	C 50	Mg 1	N 4	O 5	0
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B7	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	B7	1	Total 43	C 35	Mg 1	N 4	O 3	0
85	B7	1	Total 55	C 45	Mg 1	N 4	O 5	0
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B7	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	B7	1	Total 43	C 35	Mg 1	N 4	O 3	0
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B7	1	Total 60	C 50	Mg 1	N 4	O 5	0
85	B7	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	B7	1	47	37	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	65	55	1	4	5	0
85	B7	1	58	48	1	4	5	0
85	F7	1	65	55	1	4	5	0
85	F7	1	45	35	1	4	5	0
85	F7	1	41	33	1	4	3	0
85	I7	1	65	55	1	4	5	0
85	I7	1	65	55	1	4	5	0
85	J7	1	42	34	1	4	3	0
85	K7	1	49	39	1	4	5	0
85	K7	1	45	35	1	4	5	0
85	K7	1	42	34	1	4	3	0
85	K7	1	65	55	1	4	5	0
85	L7	1	56	46	1	4	5	0
85	L7	1	57	47	1	4	5	0
85	L7	1	65	55	1	4	5	0
85	L7	1	50	40	1	4	5	0
85	M7	1	45	35	1	4	5	0
85	O7	1	41	33	1	4	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	O7	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	O7	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	R7	1	Total 46	C 36	Mg 1	N 4	O 5	0
85	R7	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	R7	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	R7	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	A9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	A9	1	Total 60	C 50	Mg 1	N 4	O 5	0
85	A9	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 59	C 49	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	B9	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	B9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	60	50	1	4	5	0
85	C9	1	55	45	1	4	5	0
85	C9	1	65	55	1	4	5	0
85	C9	1	46	36	1	4	5	0
85	D9	1	65	55	1	4	5	0
85	D9	1	65	55	1	4	5	0
85	D9	1	65	55	1	4	5	0
85	H9	1	65	55	1	4	5	0
85	H9	1	65	55	1	4	5	0
85	a9	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	a9	1	60	50	1	4	5	0
85	b9	1	46	36	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	59	49	1	4	5	0
85	b9	1	56	46	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	b9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	c9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	60	50	1	4	5	0
85	c9	1	55	45	1	4	5	0
85	c9	1	65	55	1	4	5	0
85	c9	1	46	36	1	4	5	0
85	d9	1	50	40	1	4	5	0
85	d9	1	65	55	1	4	5	0
85	d9	1	65	55	1	4	5	0
85	d9	1	65	55	1	4	5	0
85	n9	1	65	55	1	4	5	0
85	AE	1	65	55	1	4	5	0
85	AE	1	60	50	1	4	5	0
85	AE	1	50	40	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	59	49	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	BE	1	65	55	1	4	5	0
85	CE	1	48	38	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	CE	1	60	50	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	CE	1	55	45	1	4	5	0
85	CE	1	65	55	1	4	5	0
85	DE	1	65	55	1	4	5	0
85	DE	1	65	55	1	4	5	0
85	DE	1	65	55	1	4	5	0
85	HE	1	65	55	1	4	5	0
85	HE	1	65	55	1	4	5	0
85	aE	1	65	55	1	4	5	0
85	aE	1	60	50	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	65	55	1	4	5	0
85	bE	1	59	49	1	4	5	0
85	bE	1	56	46	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	bE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 60	C 50	Mg 1	N 4	O 5	0
85	cE	1	Total 55	C 45	Mg 1	N 4	O 5	0
85	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cE	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	dE	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	dE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	dE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	dE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	dE	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	nE	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	AO	1	65	55	1	4	5	0
85	AO	1	60	50	1	4	5	0
85	AO	1	50	40	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	59	49	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	BO	1	65	55	1	4	5	0
85	CO	1	65	55	1	4	5	0
85	CO	1	65	55	1	4	5	0
85	CO	1	65	55	1	4	5	0
85	CO	1	65	55	1	4	5	0
85	CO	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	CO	1	65	55	1	4	5	0
85	CO	1	65	55	1	4	5	0
85	CO	1	65	55	1	4	5	0
85	CO	1	65	55	1	4	5	0
85	CO	1	60	50	1	4	5	0
85	CO	1	55	45	1	4	5	0
85	CO	1	65	55	1	4	5	0
85	DO	1	65	55	1	4	5	0
85	DO	1	65	55	1	4	5	0
85	DO	1	65	55	1	4	5	0
85	HO	1	65	55	1	4	5	0
85	HO	1	65	55	1	4	5	0
85	KO	1	65	55	1	4	5	0
85	aO	1	65	55	1	4	5	0
85	aO	1	60	50	1	4	5	0
85	aO	1	50	40	1	4	5	0
85	bO	1	65	55	1	4	5	0
85	bO	1	65	55	1	4	5	0
85	bO	1	65	55	1	4	5	0
85	bO	1	65	55	1	4	5	0
85	bO	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bO	1	Total 59	C 49	Mg 1	N 4	O 5	0
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cO	1	Total 60	C 50	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	cO	1	55	45	1	4	5	0
85	cO	1	65	55	1	4	5	0
85	dO	1	65	55	1	4	5	0
85	dO	1	65	55	1	4	5	0
85	dO	1	65	55	1	4	5	0
85	AZ	1	65	55	1	4	5	0
85	AZ	1	60	50	1	4	5	0
85	AZ	1	50	40	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	59	49	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0
85	BZ	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	BZ	1	65	55	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	CZ	1	60	50	1	4	5	0
85	CZ	1	55	45	1	4	5	0
85	CZ	1	65	55	1	4	5	0
85	DZ	1	65	55	1	4	5	0
85	DZ	1	65	55	1	4	5	0
85	DZ	1	65	55	1	4	5	0
85	HZ	1	65	55	1	4	5	0
85	HZ	1	65	55	1	4	5	0
85	KZ	1	65	55	1	4	5	0
85	aZ	1	65	55	1	4	5	0
85	aZ	1	60	50	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	aZ	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 59	C 49	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	bZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cZ	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cZ	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	cZ	1	65	55	1	4	5	0
85	cZ	1	65	55	1	4	5	0
85	cZ	1	65	55	1	4	5	0
85	cZ	1	65	55	1	4	5	0
85	cZ	1	65	55	1	4	5	0
85	cZ	1	60	50	1	4	5	0
85	cZ	1	55	45	1	4	5	0
85	cZ	1	65	55	1	4	5	0
85	dZ	1	65	55	1	4	5	0
85	dZ	1	65	55	1	4	5	0
85	dZ	1	65	55	1	4	5	0
85	Am	1	65	55	1	4	5	0
85	Am	1	60	50	1	4	5	0
85	Am	1	50	40	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	Bm	1	65	55	1	4	5	0
85	Bm	1	59	49	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Bm	1	65	55	1	4	5	0
85	Cm	1	46	36	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Cm	1	60	50	1	4	5	0
85	Cm	1	55	45	1	4	5	0
85	Cm	1	65	55	1	4	5	0
85	Dm	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	Dm	1	65	55	1	4	5	0
85	Dm	1	65	55	1	4	5	0
85	Hm	1	65	55	1	4	5	0
85	Hm	1	65	55	1	4	5	0
85	am	1	65	55	1	4	5	0
85	am	1	60	50	1	4	5	0
85	bm	1	46	36	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	59	49	1	4	5	0
85	bm	1	56	46	1	4	5	0
85	bm	1	65	55	1	4	5	0
85	bm	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	cm	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	cm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	dm	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	dm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	dm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	dm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	dm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	nm	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	1o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	1o	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	1o	1	45	35	1	4	5	0
85	1o	1	42	34	1	4	3	0
85	1o	1	45	35	1	4	5	0
85	1o	1	45	35	1	4	5	0
85	1o	1	50	40	1	4	5	0
85	1o	1	41	33	1	4	3	0
85	1o	1	42	34	1	4	3	0
85	1o	1	45	35	1	4	5	0
85	1o	1	45	35	1	4	5	0
85	2o	1	45	35	1	4	5	0
85	2o	1	65	55	1	4	5	0
85	2o	1	45	35	1	4	5	0
85	2o	1	42	34	1	4	3	0
85	2o	1	45	35	1	4	5	0
85	2o	1	45	35	1	4	5	0
85	2o	1	45	35	1	4	5	0
85	2o	1	50	40	1	4	5	0
85	2o	1	41	33	1	4	3	0
85	2o	1	42	34	1	4	3	0
85	2o	1	45	35	1	4	5	0
85	2o	1	54	44	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	3o	1	45	35	1	4	5	0
85	3o	1	65	55	1	4	5	0
85	3o	1	45	35	1	4	5	0
85	3o	1	42	34	1	4	3	0
85	3o	1	45	35	1	4	5	0
85	3o	1	45	35	1	4	5	0
85	3o	1	50	40	1	4	5	0
85	3o	1	41	33	1	4	3	0
85	3o	1	42	34	1	4	3	0
85	3o	1	45	35	1	4	5	0
85	3o	1	45	35	1	4	5	0
85	3o	1	45	35	1	4	5	0
85	4o	1	45	35	1	4	5	0
85	4o	1	65	55	1	4	5	0
85	4o	1	45	35	1	4	5	0
85	4o	1	42	34	1	4	3	0
85	4o	1	45	35	1	4	5	0
85	4o	1	45	35	1	4	5	0
85	4o	1	45	35	1	4	5	0
85	4o	1	50	40	1	4	5	0
85	4o	1	41	33	1	4	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	4o	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	4o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	5o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	5o	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	5o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	5o	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	5o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	5o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	5o	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	5o	1	Total 41	C 33	Mg 1	N 4	O 3	0
85	5o	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	5o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	5o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	5o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	6o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	6o	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	6o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	6o	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	6o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	6o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	6o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	6o	1	Total 50	C 40	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	6o	1	41	33	1	4	3	0
85	6o	1	42	34	1	4	3	0
85	6o	1	45	35	1	4	5	0
85	6o	1	45	35	1	4	5	0
85	6o	1	45	35	1	4	5	0
85	7o	1	45	35	1	4	5	0
85	7o	1	65	55	1	4	5	0
85	7o	1	45	35	1	4	5	0
85	7o	1	42	34	1	4	3	0
85	7o	1	45	35	1	4	5	0
85	7o	1	45	35	1	4	5	0
85	7o	1	50	40	1	4	5	0
85	7o	1	41	33	1	4	3	0
85	7o	1	42	34	1	4	3	0
85	7o	1	45	35	1	4	5	0
85	8o	1	65	55	1	4	5	0
85	8o	1	45	35	1	4	5	0
85	8o	1	45	35	1	4	5	0
85	8o	1	45	35	1	4	5	0
85	8o	1	46	36	1	4	5	0
85	8o	1	42	34	1	4	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	8o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	8o	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Ao	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 55	C 45	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 55	C 45	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 54	C 44	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Ao	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	Ao	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Ao	1	Total 62	C 52	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Ao	1	Total 45	C 35	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	Ao	1	65	55	1	4	5	0
85	Ao	1	51	41	1	4	5	0
85	Ao	1	55	45	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	55	45	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	50	40	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	45	35	1	4	5	0
85	Ao	1	51	41	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	Ao	1	65	55	1	4	5	0
85	Ao	1	45	36	1	4	4	0
85	Ao	1	65	55	1	4	5	0
85	Ao	1	52	42	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	55	45	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	45	35	1	4	5	0
85	Bo	1	42	34	1	4	3	0
85	Bo	1	55	45	1	4	5	0
85	Bo	1	59	49	1	4	5	0
85	Bo	1	60	50	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	45	35	1	4	5	0
85	Bo	1	43	35	1	4	3	0

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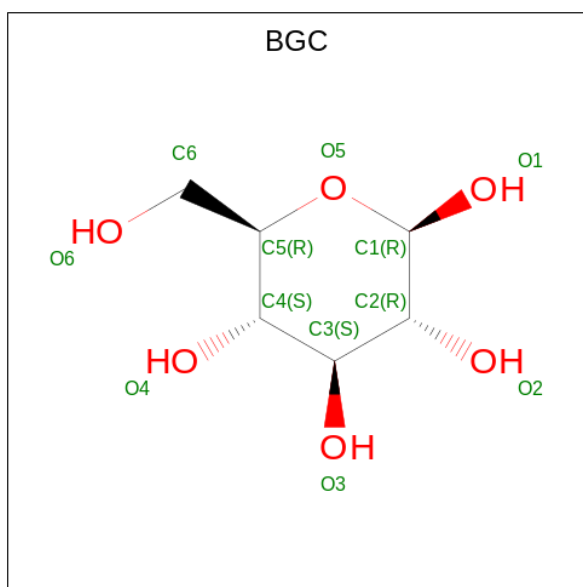
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	Bo	1	55	45	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	45	35	1	4	5	0
85	Bo	1	43	35	1	4	3	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	60	50	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	47	37	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	65	55	1	4	5	0
85	Bo	1	58	48	1	4	5	0
85	Fo	1	65	55	1	4	5	0
85	Fo	1	45	35	1	4	5	0
85	Fo	1	41	33	1	4	3	0
85	Io	1	65	55	1	4	5	0

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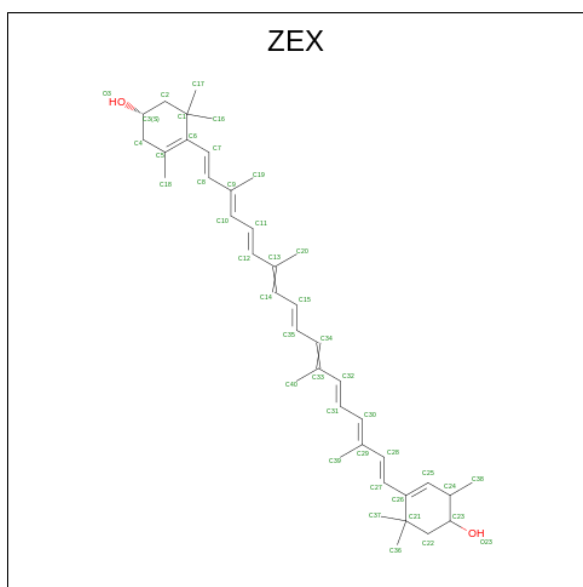
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
85	Io	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Jo	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	Ko	1	Total 49	C 39	Mg 1	N 4	O 5	0
85	Ko	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Ko	1	Total 42	C 34	Mg 1	N 4	O 3	0
85	Lo	1	Total 56	C 46	Mg 1	N 4	O 5	0
85	Lo	1	Total 57	C 47	Mg 1	N 4	O 5	0
85	Lo	1	Total 65	C 55	Mg 1	N 4	O 5	0
85	Lo	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	Mo	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Oo	1	Total 41	C 33	Mg 1	N 4	O 3	0
85	Oo	1	Total 50	C 40	Mg 1	N 4	O 5	0
85	Oo	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Ro	1	Total 46	C 36	Mg 1	N 4	O 5	0
85	Ro	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Ro	1	Total 45	C 35	Mg 1	N 4	O 5	0
85	Ro	1	Total 45	C 35	Mg 1	N 4	O 5	0

- Molecule 86 is beta-D-glucopyranose (three-letter code: BGC) (formula: C₆H₁₂O₆).



Mol	Chain	Residues	Atoms			AltConf
86	37	1	Total	C	O	0
			11	6	5	
86	3o	1	Total	C	O	0
			11	6	5	

- Molecule 87 is (1R,2S)-4-{(1E,3E,5E,7E,9E,11E,13E,15E,17E)-18-[(4S)-4-hydroxy-2,6,6-trimethylcyclohex-1-en-1-yl]-3,7,12,16-tetramethyloctadeca-1,3,5,7,9,11,13,15,17-nonaen-1-yl}-2,5,5-trimethylcyclohex-3-en-1-ol (three-letter code: ZEX) (formula: C₄₀H₅₆O₂).



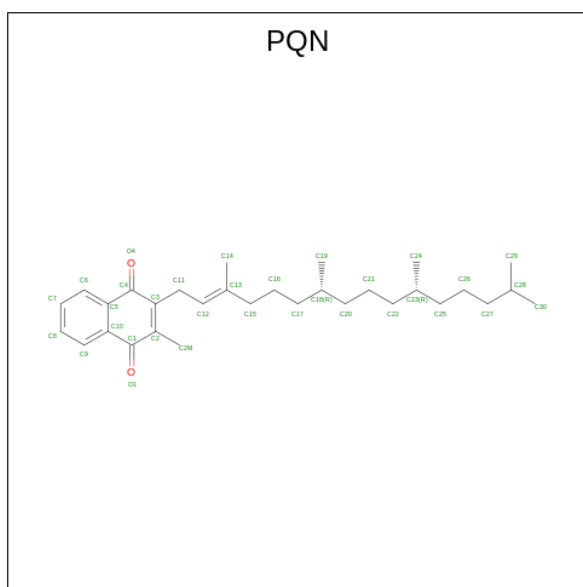
Mol	Chain	Residues	Atoms			AltConf
87	87	1	Total	C	O	0
			42	40	2	

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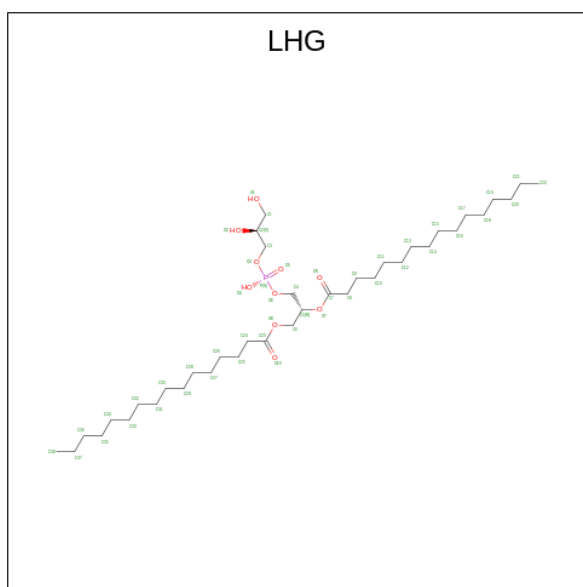
Mol	Chain	Residues	Atoms			AltConf
87	87	1	Total	C	O	0
			42	40	2	
87	8o	1	Total	C	O	0
			42	40	2	
87	8o	1	Total	C	O	0
			42	40	2	

- Molecule 88 is PHYLLOQUINONE (three-letter code: PQN) (formula: $C_{31}H_{46}O_2$).



Mol	Chain	Residues	Atoms			AltConf
88	A7	1	Total	C	O	0
			33	31	2	
88	B7	1	Total	C	O	0
			33	31	2	
88	Ao	1	Total	C	O	0
			33	31	2	
88	Bo	1	Total	C	O	0
			33	31	2	

- Molecule 89 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
89	A7	1	49	38	10	1	0
89	A7	1	40	29	10	1	0
89	A9	1	49	38	10	1	0
89	A9	1	43	32	10	1	0
89	B9	1	49	38	10	1	0
89	B9	1	41	30	10	1	0
89	C9	1	37	26	10	1	0
89	C9	1	32	21	10	1	0
89	D9	1	49	38	10	1	0
89	M9	1	39	28	10	1	0
89	a9	1	43	32	10	1	0
89	b9	1	49	38	10	1	0
89	c9	1	32	21	10	1	0
89	d9	1	46	35	10	1	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
89	d9	1	49	38	10	1	0
89	i9	1	49	38	10	1	0
89	m9	1	39	28	10	1	0
89	AE	1	49	38	10	1	0
89	AE	1	43	32	10	1	0
89	BE	1	49	38	10	1	0
89	BE	1	41	30	10	1	0
89	CE	1	37	26	10	1	0
89	CE	1	32	21	10	1	0
89	DE	1	49	38	10	1	0
89	ME	1	39	28	10	1	0
89	aE	1	43	32	10	1	0
89	bE	1	49	38	10	1	0
89	cE	1	32	21	10	1	0
89	dE	1	46	35	10	1	0
89	dE	1	49	38	10	1	0
89	iE	1	49	38	10	1	0
89	mE	1	39	28	10	1	0
89	BO	1	49	38	10	1	0
89	CO	1	37	26	10	1	0
89	CO	1	32	21	10	1	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	O	P		
89	DO	1	Total 43	C 32	O 10	P 1	0	
89	DO	1	Total 49	C 38	O 10	P 1	0	
89	IO	1	Total 123	C 38	H 74	O 10	P 1	0
89	LO	1	Total 49	C 38	O 10	P 1	0	
89	MO	1	Total 39	C 28	O 10	P 1	0	
89	aO	1	Total 43	C 32	O 10	P 1	0	
89	cO	1	Total 32	C 21	O 10	P 1	0	
89	dO	1	Total 46	C 35	O 10	P 1	0	
89	dO	1	Total 49	C 38	O 10	P 1	0	
89	iO	1	Total 123	C 38	H 74	O 10	P 1	0
89	lO	1	Total 49	C 38	O 10	P 1	0	
89	mO	1	Total 39	C 28	O 10	P 1	0	
89	BZ	1	Total 49	C 38	O 10	P 1	0	
89	CZ	1	Total 37	C 26	O 10	P 1	0	
89	CZ	1	Total 32	C 21	O 10	P 1	0	
89	DZ	1	Total 43	C 32	O 10	P 1	0	
89	DZ	1	Total 49	C 38	O 10	P 1	0	
89	IZ	1	Total 123	C 38	H 74	O 10	P 1	0
89	LZ	1	Total 49	C 38	O 10	P 1	0	
89	MZ	1	Total 39	C 28	O 10	P 1	0	
89	aZ	1	Total 43	C 32	O 10	P 1	0	

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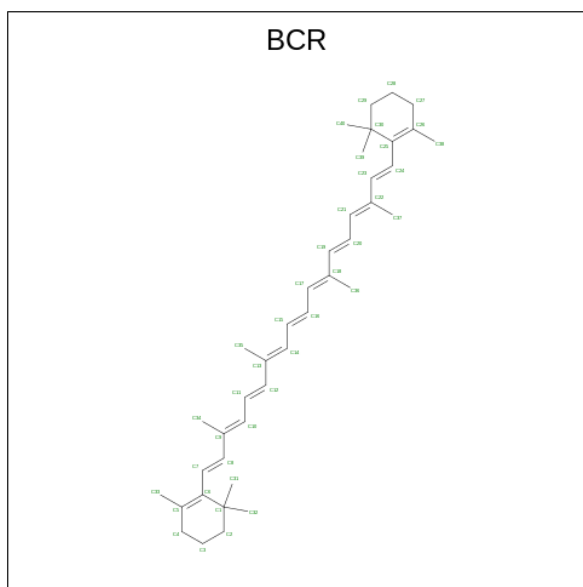
Mol	Chain	Residues	Atoms				AltConf	
			Total	C	O	P		
89	cZ	1	32	21	10	1	0	
89	dZ	1	46	35	10	1	0	
89	dZ	1	49	38	10	1	0	
89	iZ	1	123	38	74	10	1	0
89	lZ	1	49	38	10	1	0	
89	mZ	1	39	28	10	1	0	
89	Am	1	49	38	10	1	0	
89	Am	1	43	32	10	1	0	
89	Bm	1	49	38	10	1	0	
89	Bm	1	41	30	10	1	0	
89	Cm	1	37	26	10	1	0	
89	Cm	1	32	21	10	1	0	
89	Dm	1	49	38	10	1	0	
89	Mm	1	39	28	10	1	0	
89	am	1	43	32	10	1	0	
89	bm	1	49	38	10	1	0	
89	cm	1	32	21	10	1	0	
89	dm	1	46	35	10	1	0	
89	dm	1	49	38	10	1	0	
89	im	1	49	38	10	1	0	
89	mm	1	39	28	10	1	0	

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
89	Ao	1	49	38	10	1	0
89	Ao	1	40	29	10	1	0

- Molecule 90 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



Mol	Chain	Residues	Atoms		AltConf
90	A7	1	Total	C	0
			40	40	
90	A7	1	Total	C	0
			40	40	
90	A7	1	Total	C	0
			40	40	
90	A7	1	Total	C	0
			40	40	
90	B7	1	Total	C	0
			40	40	
90	B7	1	Total	C	0
			40	40	
90	B7	1	Total	C	0
			40	40	

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Mol	Chain	Residues	Atoms	AltConf
90	B7	1	Total C 40 40	0
90	B7	1	Total C 40 40	0
90	B7	1	Total C 40 40	0
90	F7	1	Total C 40 40	0
90	F7	1	Total C 40 40	0
90	I7	1	Total C 40 40	0
90	J7	1	Total C 40 40	0
90	J7	1	Total C 40 40	0
90	K7	1	Total C 40 40	0
90	K7	1	Total C 40 40	0
90	L7	1	Total C 40 40	0
90	L7	1	Total C 40 40	0
90	A9	1	Total C 40 40	0
90	B9	1	Total C 40 40	0
90	B9	1	Total C 40 40	0
90	B9	1	Total C 40 40	0
90	C9	1	Total C 40 40	0
90	C9	1	Total C 40 40	0
90	C9	1	Total C 40 40	0
90	F9	1	Total C 40 40	0
90	H9	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
90	K9	1	Total C 40 40	0
90	a9	1	Total C 40 40	0
90	b9	1	Total C 40 40	0
90	b9	1	Total C 40 40	0
90	b9	1	Total C 40 40	0
90	c9	1	Total C 40 40	0
90	c9	1	Total C 40 40	0
90	c9	1	Total C 40 40	0
90	f9	1	Total C 40 40	0
90	h9	1	Total C 40 40	0
90	k9	1	Total C 40 40	0
90	AE	1	Total C 40 40	0
90	BE	1	Total C 40 40	0
90	BE	1	Total C 40 40	0
90	BE	1	Total C 40 40	0
90	CE	1	Total C 40 40	0
90	CE	1	Total C 40 40	0
90	CE	1	Total C 40 40	0
90	FE	1	Total C 40 40	0
90	HE	1	Total C 40 40	0
90	KE	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
90	aE	1	Total C 40 40	0
90	bE	1	Total C 40 40	0
90	bE	1	Total C 40 40	0
90	bE	1	Total C 40 40	0
90	cE	1	Total C 40 40	0
90	cE	1	Total C 40 40	0
90	cE	1	Total C 40 40	0
90	fE	1	Total C 40 40	0
90	hE	1	Total C 40 40	0
90	kE	1	Total C 40 40	0
90	AO	1	Total C 40 40	0
90	BO	1	Total C 40 40	0
90	BO	1	Total C 40 40	0
90	BO	1	Total C 40 40	0
90	CO	1	Total C 40 40	0
90	CO	1	Total C 40 40	0
90	FO	1	Total C 40 40	0
90	HO	1	Total C 40 40	0
90	KO	1	Total C 40 40	0
90	ZO	1	Total C 40 40	0
90	aO	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
90	bO	1	Total C 40 40	0
90	bO	1	Total C 40 40	0
90	bO	1	Total C 40 40	0
90	cO	1	Total C 40 40	0
90	cO	1	Total C 40 40	0
90	cO	1	Total C 40 40	0
90	dO	1	Total C 40 40	0
90	hO	1	Total C 40 40	0
90	kO	1	Total C 40 40	0
90	AZ	1	Total C 40 40	0
90	BZ	1	Total C 40 40	0
90	BZ	1	Total C 40 40	0
90	BZ	1	Total C 40 40	0
90	CZ	1	Total C 40 40	0
90	CZ	1	Total C 40 40	0
90	FZ	1	Total C 40 40	0
90	HZ	1	Total C 40 40	0
90	KZ	1	Total C 40 40	0
90	ZZ	1	Total C 40 40	0
90	aZ	1	Total C 40 40	0
90	bZ	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
90	bZ	1	Total C 40 40	0
90	bZ	1	Total C 40 40	0
90	cZ	1	Total C 40 40	0
90	cZ	1	Total C 40 40	0
90	cZ	1	Total C 40 40	0
90	dZ	1	Total C 40 40	0
90	hZ	1	Total C 40 40	0
90	kZ	1	Total C 40 40	0
90	Am	1	Total C 40 40	0
90	Bm	1	Total C 40 40	0
90	Bm	1	Total C 40 40	0
90	Bm	1	Total C 40 40	0
90	Cm	1	Total C 40 40	0
90	Cm	1	Total C 40 40	0
90	Cm	1	Total C 40 40	0
90	Fm	1	Total C 40 40	0
90	Hm	1	Total C 40 40	0
90	Km	1	Total C 40 40	0
90	am	1	Total C 40 40	0
90	bm	1	Total C 40 40	0
90	bm	1	Total C 40 40	0

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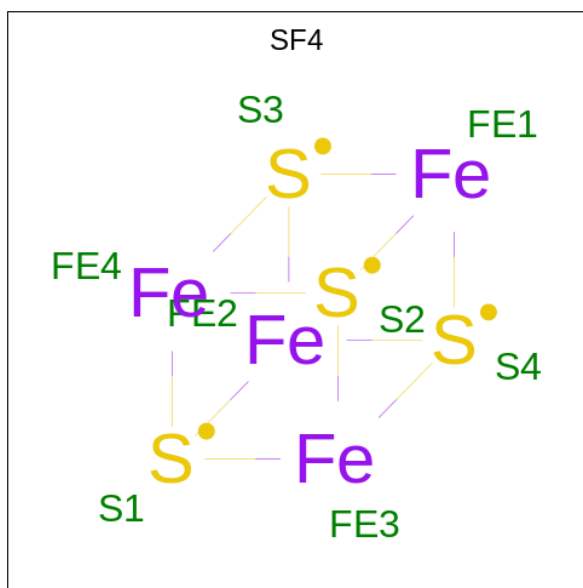
Mol	Chain	Residues	Atoms	AltConf
90	bm	1	Total C 40 40	0
90	cm	1	Total C 40 40	0
90	cm	1	Total C 40 40	0
90	cm	1	Total C 40 40	0
90	fm	1	Total C 40 40	0
90	hm	1	Total C 40 40	0
90	km	1	Total C 40 40	0
90	Ao	1	Total C 40 40	0
90	Ao	1	Total C 40 40	0
90	Ao	1	Total C 40 40	0
90	Ao	1	Total C 40 40	0
90	Ao	1	Total C 40 40	0
90	Bo	1	Total C 40 40	0
90	Bo	1	Total C 40 40	0
90	Bo	1	Total C 40 40	0
90	Bo	1	Total C 40 40	0
90	Bo	1	Total C 40 40	0
90	Bo	1	Total C 40 40	0
90	Bo	1	Total C 40 40	0
90	Fo	1	Total C 40 40	0
90	Fo	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
90	Io	1	Total C 40 40	0
90	Jo	1	Total C 40 40	0
90	Jo	1	Total C 40 40	0
90	Ko	1	Total C 40 40	0
90	Ko	1	Total C 40 40	0
90	Lo	1	Total C 40 40	0
90	Lo	1	Total C 40 40	0

- Molecule 91 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



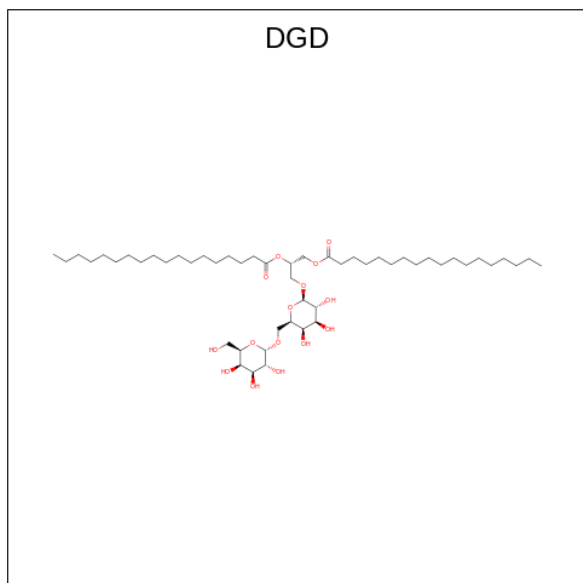
Mol	Chain	Residues	Atoms	AltConf
91	B7	1	Total Fe S 8 4 4	0
91	C7	1	Total Fe S 8 4 4	0
91	C7	1	Total Fe S 8 4 4	0
91	Bo	1	Total Fe S 8 4 4	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	Fe	S	
91	Co	1	8	4	4	0
91	Co	1	8	4	4	0

- Molecule 92 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
92	B7	1	66	51	15	0
92	A9	1	62	47	15	0
92	A9	1	40	25	15	0
92	A9	1	40	25	15	0
92	B9	1	40	25	15	0
92	B9	1	40	25	15	0
92	B9	1	58	43	15	0
92	B9	1	42	27	15	0
92	B9	1	42	27	15	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
92	C9	1	62	47	15	0
92	C9	1	42	27	15	0
92	C9	1	48	33	15	0
92	D9	1	62	47	15	0
92	J9	1	62	47	15	0
92	a9	1	53	38	15	0
92	c9	1	62	47	15	0
92	c9	1	62	47	15	0
92	c9	1	48	33	15	0
92	h9	1	62	47	15	0
92	l9	1	58	43	15	0
92	AE	1	62	47	15	0
92	AE	1	40	25	15	0
92	AE	1	40	25	15	0
92	BE	1	40	25	15	0
92	BE	1	40	25	15	0
92	BE	1	58	43	15	0
92	CE	1	62	47	15	0
92	CE	1	48	33	15	0
92	DE	1	62	47	15	0
92	JE	1	62	47	15	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
92	aE	1	53	38	15	0
92	cE	1	62	47	15	0
92	cE	1	62	47	15	0
92	cE	1	48	33	15	0
92	hE	1	62	47	15	0
92	lE	1	58	43	15	0
92	BO	1	58	43	15	0
92	CO	1	62	47	15	0
92	CO	1	62	47	15	0
92	CO	1	42	27	15	0
92	CO	1	42	27	15	0
92	CO	1	48	33	15	0
92	DO	1	62	47	15	0
92	JO	1	62	47	15	0
92	LO	1	58	43	15	0
92	OO	1	40	25	15	0
92	aO	1	40	25	15	0
92	aO	1	40	25	15	0
92	aO	1	53	38	15	0
92	bO	1	40	25	15	0
92	bO	1	42	27	15	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
92	cO	1	62	47	15	0
92	cO	1	62	47	15	0
92	cO	1	48	33	15	0
92	hO	1	62	47	15	0
92	BZ	1	58	43	15	0
92	CZ	1	62	47	15	0
92	CZ	1	62	47	15	0
92	CZ	1	42	27	15	0
92	CZ	1	42	27	15	0
92	CZ	1	48	33	15	0
92	DZ	1	62	47	15	0
92	JZ	1	62	47	15	0
92	LZ	1	58	43	15	0
92	OZ	1	40	25	15	0
92	aZ	1	40	25	15	0
92	aZ	1	40	25	15	0
92	aZ	1	53	38	15	0
92	bZ	1	42	27	15	0
92	bZ	1	40	25	15	0
92	cZ	1	62	47	15	0
92	cZ	1	62	47	15	0

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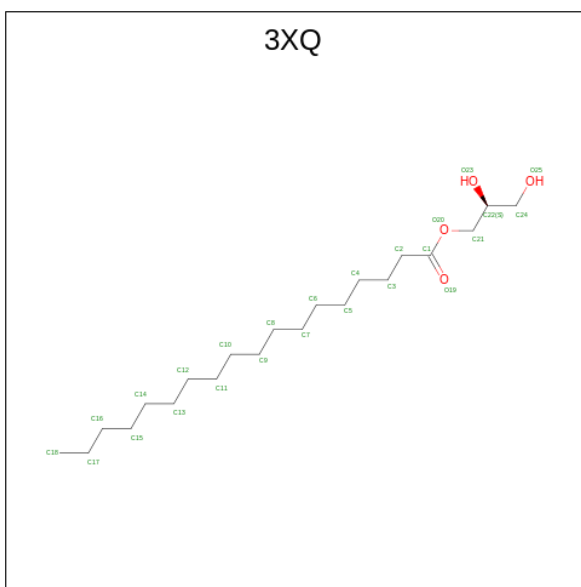
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
92	cZ	1	48	33	15	0
92	hZ	1	62	47	15	0
92	Am	1	62	47	15	0
92	Am	1	40	25	15	0
92	Am	1	40	25	15	0
92	Bm	1	40	25	15	0
92	Bm	1	40	25	15	0
92	Bm	1	58	43	15	0
92	Cm	1	62	47	15	0
92	Cm	1	42	27	15	0
92	Cm	1	48	33	15	0
92	Dm	1	62	47	15	0
92	Jm	1	62	47	15	0
92	am	1	53	38	15	0
92	cm	1	62	47	15	0
92	cm	1	62	47	15	0
92	cm	1	48	33	15	0
92	hm	1	62	47	15	0
92	lm	1	58	43	15	0
92	Bo	1	66	51	15	0

- Molecule 93 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: $C_{34}H_{32}FeN_4O_4$).

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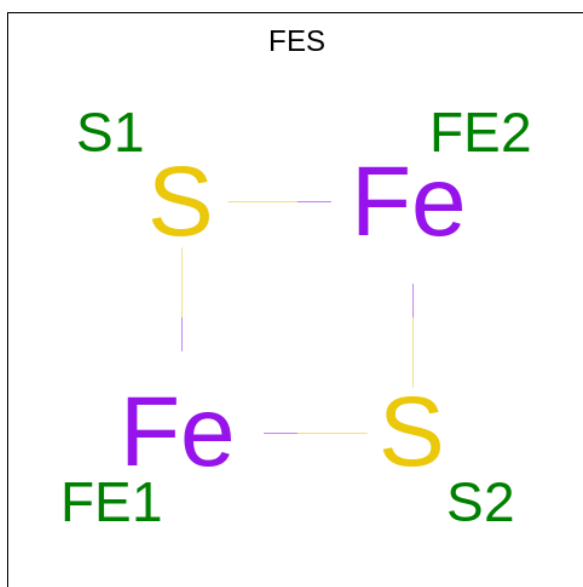
Mol	Chain	Residues	Atoms					AltConf	
			Total	C	Fe	N	O		
93	VZ	1	Total 43	C 34	Fe 1	N 4	O 4	0	
93	fZ	1	Total 73	C 34	Fe 1	H 30	N 4	O 4	0
93	vZ	1	Total 43	C 34	Fe 1	N 4	O 4	0	
93	Fm	1	Total 43	C 34	Fe 1	N 4	O 4	0	
93	Vm	1	Total 43	C 34	Fe 1	N 4	O 4	0	
93	fm	1	Total 43	C 34	Fe 1	N 4	O 4	0	
93	vm	1	Total 43	C 34	Fe 1	N 4	O 4	0	
93	Go	1	Total 43	C 34	Fe 1	N 4	O 4	0	

- Molecule 94 is (2S)-2,3-dihydroxypropyl octadecanoate (three-letter code: 3XQ) (formula: C₂₁H₄₂O₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
94	J7	1	Total 25	C 21	O 4	0
94	Jo	1	Total 25	C 21	O 4	0

- Molecule 95 is FE2/S2 (INORGANIC) CLUSTER (three-letter code: FES) (formula: Fe₂S₂).

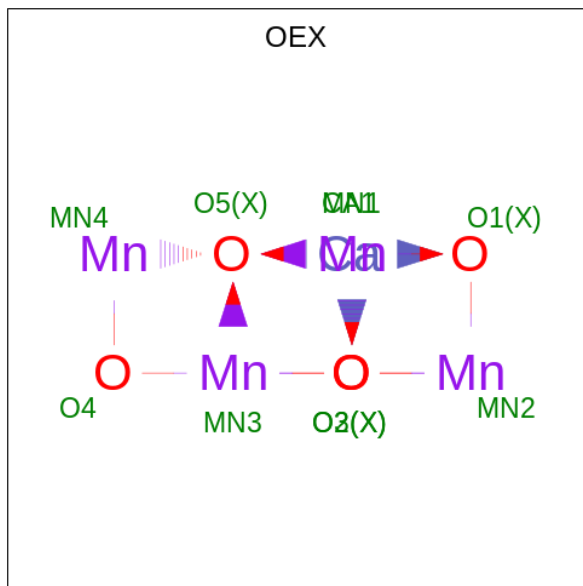


Mol	Chain	Residues	Atoms			AltConf
			Total	Fe	S	
95	N7	1	4	2	2	0
95	No	1	4	2	2	0

- Molecule 96 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		AltConf
			Total	Cl	
96	A9	1	1	1	0
96	a9	1	1	1	0
96	AE	1	1	1	0
96	aE	1	1	1	0
96	CO	1	1	1	0
96	aO	1	1	1	0
96	CZ	1	1	1	0
96	aZ	1	1	1	0
96	Am	1	1	1	0
96	am	1	1	1	0

- Molecule 97 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula: CaMn_4O_5).



Mol	Chain	Residues	Atoms				AltConf
			Total	Ca	Mn	O	
97	A9	1	10	1	4	5	0
97	a9	1	10	1	4	5	0
97	AE	1	10	1	4	5	0
97	aE	1	10	1	4	5	0
97	AO	1	10	1	4	5	0
97	aO	1	10	1	4	5	0
97	AZ	1	10	1	4	5	0
97	aZ	1	10	1	4	5	0
97	Am	1	10	1	4	5	0
97	am	1	10	1	4	5	0

- Molecule 98 is FE (III) ION (three-letter code: FE) (formula: Fe).

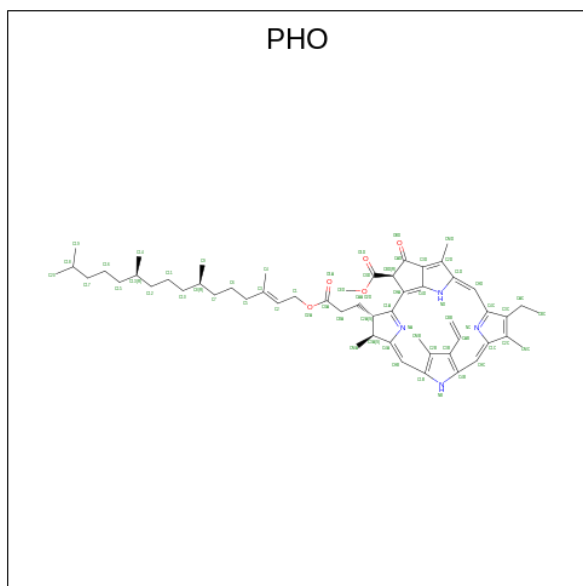
Mol	Chain	Residues	Atoms		AltConf
98	A9	1	Total	Fe	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
98	a9	1	Total	Fe	0
			1	1	
98	AE	1	Total	Fe	0
			1	1	
98	aE	1	Total	Fe	0
			1	1	
98	AO	1	Total	Fe	0
			1	1	
98	aO	1	Total	Fe	0
			1	1	
98	AZ	1	Total	Fe	0
			1	1	
98	aZ	1	Total	Fe	0
			1	1	
98	Am	1	Total	Fe	0
			1	1	
98	am	1	Total	Fe	0
			1	1	

- Molecule 99 is PHEOPHYTIN A (three-letter code: PHO) (formula: $C_{55}H_{74}N_4O_5$).



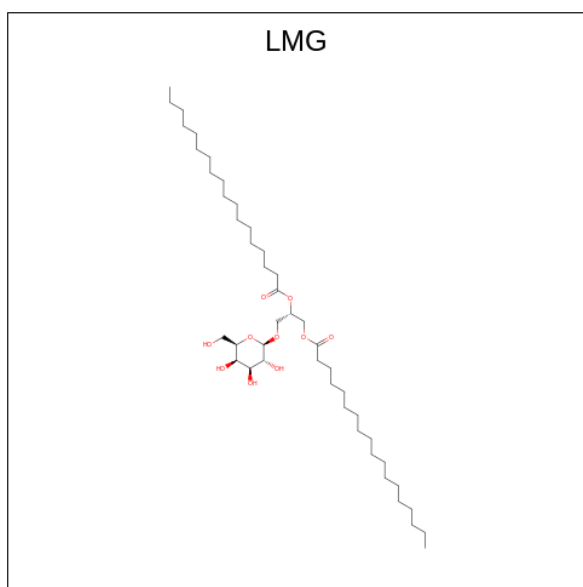
Mol	Chain	Residues	Atoms				AltConf
99	A9	1	Total	C	N	O	0
			64	55	4	5	
99	D9	1	Total	C	N	O	0
			64	55	4	5	

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
99	a9	1	64	55	4	5	0
99	d9	1	64	55	4	5	0
99	AE	1	64	55	4	5	0
99	DE	1	64	55	4	5	0
99	aE	1	64	55	4	5	0
99	dE	1	64	55	4	5	0
99	AO	1	64	55	4	5	0
99	DO	1	64	55	4	5	0
99	aO	1	64	55	4	5	0
99	dO	1	64	55	4	5	0
99	AZ	1	64	55	4	5	0
99	DZ	1	64	55	4	5	0
99	aZ	1	64	55	4	5	0
99	dZ	1	64	55	4	5	0
99	Am	1	64	55	4	5	0
99	Dm	1	64	55	4	5	0
99	am	1	64	55	4	5	0
99	dm	1	64	55	4	5	0

- Molecule 100 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C₄₅H₈₆O₁₀).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
100	A9	1	51	41	10	0
100	B9	1	40	30	10	0
100	B9	1	39	29	10	0
100	B9	1	41	31	10	0
100	B9	1	35	25	10	0
100	C9	1	55	45	10	0
100	D9	1	54	44	10	0
100	J9	1	43	33	10	0
100	J9	1	33	23	10	0
100	M9	1	41	31	10	0
100	X9	1	50	40	10	0
100	a9	1	42	32	10	0
100	b9	1	41	31	10	0
100	b9	1	39	29	10	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
100	b9	1	50	40	10	0
100	b9	1	41	31	10	0
100	b9	1	41	31	10	0
100	d9	1	54	44	10	0
100	j9	1	33	23	10	0
100	m9	1	41	31	10	0
100	q9	1	43	33	10	0
100	y9	1	55	45	10	0
100	AE	1	51	41	10	0
100	BE	1	40	30	10	0
100	BE	1	39	29	10	0
100	CE	1	55	45	10	0
100	DE	1	33	23	10	0
100	DE	1	54	44	10	0
100	JE	1	43	33	10	0
100	ME	1	41	31	10	0
100	XE	1	50	40	10	0
100	aE	1	42	32	10	0
100	bE	1	41	31	10	0
100	bE	1	39	29	10	0
100	bE	1	50	40	10	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
100	dE	1	54	44	10	0
100	jE	1	33	23	10	0
100	mE	1	41	31	10	0
100	qE	1	43	33	10	0
100	yE	1	55	45	10	0
100	AO	1	51	41	10	0
100	BO	1	40	30	10	0
100	BO	1	39	29	10	0
100	BO	1	50	40	10	0
100	DO	1	54	44	10	0
100	JO	1	43	33	10	0
100	JO	1	33	23	10	0
100	KO	1	55	45	10	0
100	aO	1	42	32	10	0
100	bO	1	41	31	10	0
100	bO	1	39	29	10	0
100	bO	1	41	31	10	0
100	bO	1	36	26	10	0
100	dO	1	54	44	10	0
100	jO	1	43	33	10	0
100	jO	1	33	23	10	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
100	kO	1	55	45	10	0
100	mO	1	41	31	10	0
100	mO	1	41	31	10	0
100	xO	1	50	40	10	0
100	AZ	1	51	41	10	0
100	BZ	1	40	30	10	0
100	BZ	1	39	29	10	0
100	BZ	1	50	40	10	0
100	DZ	1	33	23	10	0
100	DZ	1	54	44	10	0
100	JZ	1	43	33	10	0
100	KZ	1	55	45	10	0
100	aZ	1	42	32	10	0
100	bZ	1	41	31	10	0
100	bZ	1	36	26	10	0
100	bZ	1	41	31	10	0
100	bZ	1	39	29	10	0
100	dZ	1	54	44	10	0
100	jZ	1	43	33	10	0
100	jZ	1	33	23	10	0
100	kZ	1	55	45	10	0

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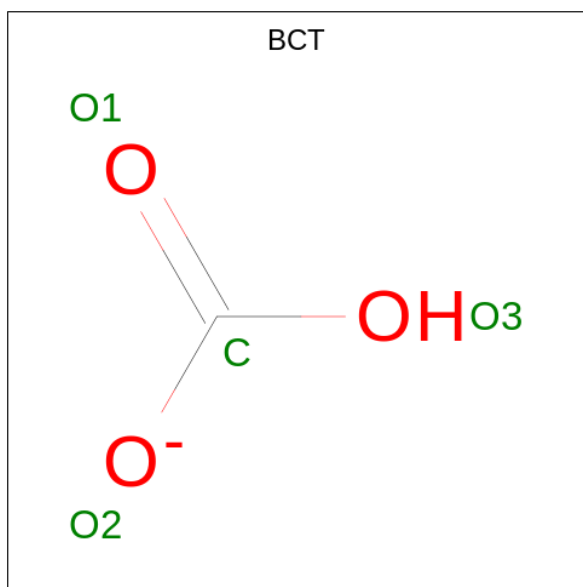
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
100	mZ	1	41	31	10	0
100	mZ	1	41	31	10	0
100	xZ	1	50	40	10	0
100	Am	1	51	41	10	0
100	Bm	1	40	30	10	0
100	Bm	1	39	29	10	0
100	Cm	1	55	45	10	0
100	Dm	1	54	44	10	0
100	Jm	1	43	33	10	0
100	Jm	1	33	23	10	0
100	Mm	1	41	31	10	0
100	Xm	1	50	40	10	0
100	am	1	42	32	10	0
100	bm	1	41	31	10	0
100	bm	1	41	31	10	0
100	bm	1	41	31	10	0
100	bm	1	39	29	10	0
100	bm	1	50	40	10	0
100	dm	1	54	44	10	0
100	jm	1	33	23	10	0
100	mm	1	41	31	10	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
100	qm	1	43	33	10	0
100	ym	1	55	45	10	0

- Molecule 101 is BICARBONATE ION (three-letter code: BCT) (formula: CHO_3).



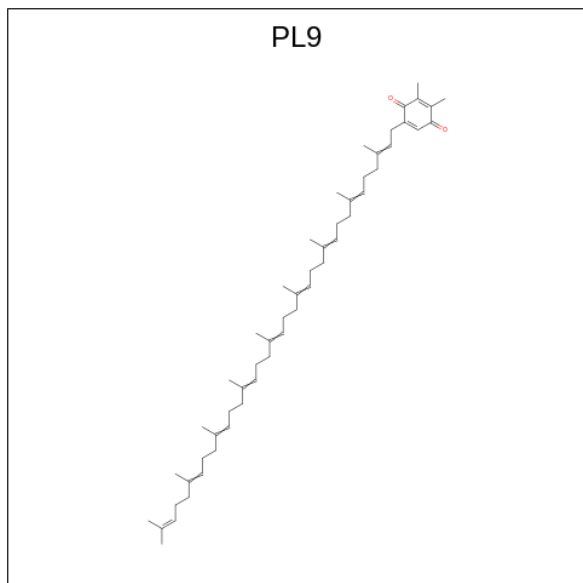
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
101	A9	1	4	1	3	0
101	a9	1	4	1	3	0
101	DE	1	4	1	3	0
101	dE	1	4	1	3	0
101	AO	1	4	1	3	0
101	dO	1	4	1	3	0
101	AZ	1	4	1	3	0
101	dZ	1	4	1	3	0
101	Am	1	4	1	3	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
101	am	1	4	1	3	0

- Molecule 102 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (three-letter code: PL9) (formula: C₅₃H₈₀O₂).



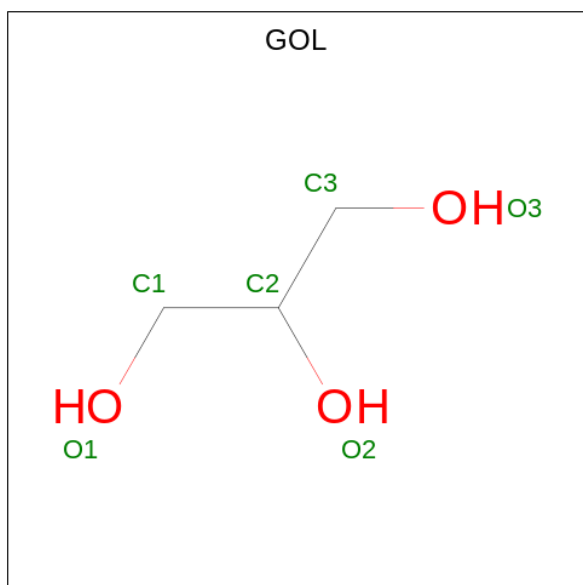
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
102	A9	1	55	53	2	0
102	D9	1	55	53	2	0
102	a9	1	55	53	2	0
102	d9	1	55	53	2	0
102	AE	1	55	53	2	0
102	DE	1	55	53	2	0
102	aE	1	55	53	2	0
102	dE	1	55	53	2	0
102	AO	1	55	53	2	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
102	DO	1	55	53	2	0
102	aO	1	55	53	2	0
102	dO	1	55	53	2	0
102	AZ	1	55	53	2	0
102	DZ	1	55	53	2	0
102	aZ	1	55	53	2	0
102	dZ	1	55	53	2	0
102	Am	1	55	53	2	0
102	Dm	1	55	53	2	0
102	am	1	55	53	2	0
102	dm	1	55	53	2	0

- Molecule 103 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			AltConf
103	W9	1	Total	C	O	0
			6	3	3	
103	w9	1	Total	C	O	0
			6	3	3	
103	WE	1	Total	C	O	0
			6	3	3	
103	wE	1	Total	C	O	0
			6	3	3	
103	IO	1	Total	C	O	0
			6	3	3	
103	iO	1	Total	C	O	0
			6	3	3	
103	IZ	1	Total	C	O	0
			6	3	3	
103	iZ	1	Total	C	O	0
			6	3	3	
103	Wm	1	Total	C	O	0
			6	3	3	
103	wm	1	Total	C	O	0
			6	3	3	

- Molecule 104 is water.

Mol	Chain	Residues	Atoms		AltConf
104	a9	2	Total	O	0
			2	2	
104	aE	2	Total	O	0
			2	2	
104	aO	2	Total	O	0
			2	2	
104	aZ	2	Total	O	0
			2	2	
104	am	2	Total	O	0
			2	2	

MolProbity failed to run properly - this section is therefore empty.

3 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	87000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	35	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	6000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor

4 Model quality [i](#)

4.1 Standard geometry [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.4 Non-standard residues in protein, DNA, RNA chains [i](#)

validation-pack failed to run properly - this section is therefore empty.

4.5 Carbohydrates [i](#)

validation-pack failed to run properly - this section is therefore empty.

4.6 Ligand geometry [i](#)

validation-pack failed to run properly - this section is therefore empty.

4.7 Other polymers [i](#)

validation-pack failed to run properly - this section is therefore empty.

4.8 Polymer linkage issues

There are no chain breaks in this entry.

5 Map visualisation

This section contains visualisations of the EMDB entry EMD-33658. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

5.1 Orthogonal projections

This section was not generated.

5.2 Central slices

This section was not generated.

5.3 Largest variance slices

This section was not generated.

5.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

5.5 Orthogonal surface views

This section was not generated.

5.6 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

6 Map analysis

This section contains the results of statistical analysis of the map.

6.1 Map-value distribution

This section was not generated.

6.2 Volume estimate versus contour level

This section was not generated.

6.3 Rotationally averaged power spectrum

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

7 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

8 Map-model fit

This section was not generated.