



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:50 AM GMT

PDB ID : 3N41
Title : Crystal structure of the mature envelope glycoprotein complex (spontaneous cleavage) of Chikungunya virus.
Authors : Voss, J.; Vaney, M.C.; Duquerroy, S.; Rey, F.A.
Deposited on : 2010-05-21
Resolution : 3.01 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

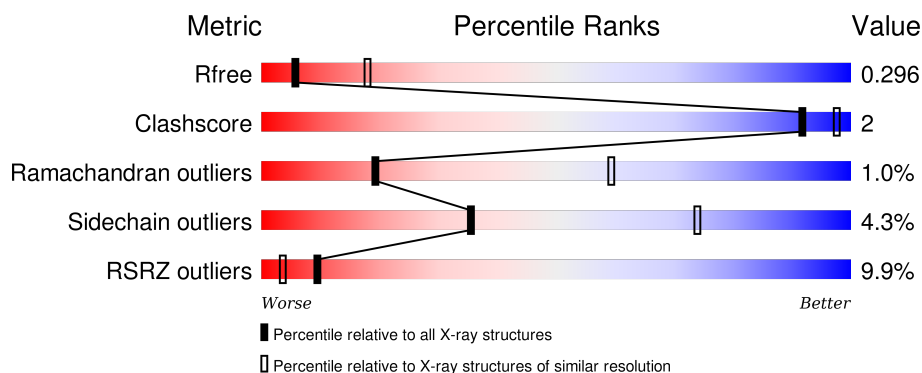
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION




The reported resolution of this entry is 3.01 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1773 (3.04-3.00)
Clashscore	102246	2117 (3.04-3.00)
Ramachandran outliers	100387	2050 (3.04-3.00)
Sidechain outliers	100360	2053 (3.04-3.00)
RSRZ outliers	91569	1788 (3.04-3.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	65	 69% 12% • 15%
2	B	360	 3% 85% 9% 6%
3	F	473	 14% 74% 6% • 19%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 6070 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called E3 envelope glycoprotein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	55	Total	C	N	O	S	0	0	0
			427	268	67	83	9			

- Molecule 2 is a protein called E2 envelope glycoprotein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	338	Total	C	N	O	S	0	1	0
			2669	1666	483	500	20			

- Molecule 3 is a protein called E1 envelope glycoprotein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	F	382	Total	C	N	O	S	0	1	0
			2909	1838	487	560	24			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	0	GLY	-	expression tag	UNP Q1H8W5

- Molecule 4 is a polymer of unknown type called SUGAR (2-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	B	2	Total	C	N	O	0	0
			28	16	2	10		

- Molecule 5 is SUGAR (N-ACETYL-D-GLUCOSAMINE) (three-letter code: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	F	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	7	Total	O	0	0
			7	7		
6	F	16	Total	O	0	0
			16	16		

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($\text{RSRZ} > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LEU | GLY | VAL | GLN | ASP | ILE | SER | ALA | THR | ALA | MET | SER | TRP | GLN | GLY | LYS | PRO | PHE | GLU | ASP | ASP | ASP | LYS | ALA | TRP | SER | HIS | PRO | GLN | PHE | GLU | LYS | GLY | GLY | GLY | GLY | GLY | SER | SER | HIS | PRO | GLN | PHE | GLU |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	50.24Å 99.61Å 107.10Å 90.00° 102.90° 90.00°	Depositor
Resolution (Å)	50.00 – 3.01 72.07 – 3.01	Depositor EDS
% Data completeness (in resolution range)	98.3 (50.00-3.01) 98.3 (72.07-3.01)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 3.01Å)	Xtriage
Refinement program	BUSTER 2.9.3	Depositor
R, R_{free}	0.252 , 0.275 0.272 , 0.296	Depositor DCC
R_{free} test set	1027 reflections (5.36%)	DCC
Wilson B-factor (Å ²)	70.7	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 52.9	EDS
Estimated twinning fraction	0.035 for h,-k,-h-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 20245 reflections	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	6070	wwPDB-VP
Average B, all atoms (Å ²)	89.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.76% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, NDG

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.45	0/438	0.62	0/598
2	B	0.37	0/2741	0.60	0/3731
3	F	0.35	0/2981	0.56	0/4064
All	All	0.37	0/6160	0.58	0/8393

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	427	0	410	6	0
2	B	2669	0	2587	8	0
3	F	2909	0	2818	12	0
4	B	28	0	25	0	0
5	F	14	0	13	0	0
6	B	7	0	0	0	0
6	F	16	0	0	0	0
All	All	6070	0	5853	25	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

All (25) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:VAL:O	1:A:6:VAL:HG12	1.71	0.90
1:A:6:VAL:O	1:A:6:VAL:CG1	2.30	0.79
2:B:198:ARG:HA	2:B:210:LEU:H	1.51	0.73
3:F:225:ALA:H	3:F:230:HIS:HE1	1.38	0.72
3:F:42:LEU:HD11	3:F:266:VAL:HG22	1.85	0.58
3:F:21:ARG:HH12	3:F:284:GLU:HG2	1.70	0.56
3:F:38:LEU:HB2	3:F:268:ALA:HB3	1.90	0.53
2:B:248:LEU:HD13	2:B:251:ARG:HB2	1.93	0.51
1:A:6:VAL:HG13	1:A:17:CYS:SG	2.51	0.49
3:F:60:VAL:HG22	3:F:102:GLN:HG3	1.95	0.49
1:A:6:VAL:CG1	1:A:17:CYS:SG	3.01	0.48
3:F:28:VAL:HG23	3:F:329:ALA:HB1	1.95	0.48
3:F:19:VAL:HB	3:F:27:MET:HB3	1.96	0.48
2:B:52:LEU:HD22	2:B:67:LEU:HD21	1.97	0.47
2:B:184:GLN:HG2	2:B:189:LYS:HB2	1.97	0.46
3:F:30:GLU:HB3	3:F:136:LEU:HB2	1.98	0.46
1:A:7:MET:HE3	1:A:15:PHE:C	2.38	0.43
2:B:184:GLN:HA	2:B:185:SER:HA	1.76	0.42
3:F:59:TYR:HB3	3:F:103:LEU:HB3	2.02	0.42
3:F:147:TYR:H	3:F:152:HIS:HD2	1.68	0.42
3:F:149:ASN:HD22	3:F:149:ASN:H	1.68	0.42
2:B:140:LYS:HB2	2:B:292:PRO:HB2	2.02	0.41
1:A:55:LEU:HD13	2:B:8:VAL:HA	2.02	0.41
2:B:13:ARG:HE	2:B:236:GLN:HE21	1.69	0.41
3:F:7:ILE:HG12	3:F:278:ILE:HD12	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	53/65 (82%)	50 (94%)	1 (2%)	2 (4%)	4	21
2	B	336/360 (93%)	313 (93%)	19 (6%)	4 (1%)	16	54
3	F	381/473 (80%)	369 (97%)	10 (3%)	2 (0%)	34	75
All	All	770/898 (86%)	732 (95%)	30 (4%)	8 (1%)	19	59

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	121	ILE
3	F	99	GLU
1	A	11	ALA
2	B	72	ASN
2	B	164	THR
3	F	126	THR
2	B	232	HIS
1	A	58	SER

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	52/61 (85%)	47 (90%)	5 (10%)	10	36
2	B	300/319 (94%)	287 (96%)	13 (4%)	35	74
3	F	319/378 (84%)	308 (97%)	11 (3%)	44	81
All	All	671/758 (88%)	642 (96%)	29 (4%)	35	74

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	VAL
1	A	7	MET
1	A	9	LEU
1	A	30	GLU
1	A	51	LEU

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Mol	Chain	Res	Type
2	B	6	PHE
2	B	24	GLU
2	B	28	CYS
2	B	80	ARG
2	B	119	ARG
2	B	158	GLN
2	B	181	MET
2	B	192	VAL
2	B	212	THR
2	B	235	TRP
2	B	294	LEU
2	B	307	GLN
2	B	342	LEU
3	F	69	LYS
3	F	110	LYS
3	F	136	LEU
3	F	149	ASN
3	F	157	LYS
3	F	246	GLU
3	F	284	GLU
3	F	327	LYS
3	F	346	VAL
3	F	364	GLU
3	F	370	CYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	5	ASN
2	B	236	GLN
2	B	282	GLN
3	F	149	ASN
3	F	152	HIS
3	F	230	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

2 carbohydrates are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	NAG	B	1001	2,4	14,14,15	1.38	1 (7%)	15,19,21	1.55	2 (13%)
4	NDG	B	1002	4	14,14,15	1.24	1 (7%)	15,19,21	1.51	3 (20%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	B	1001	2,4	-	0/6/23/26	0/1/1/1
4	NDG	B	1002	4	-	0/6/23/26	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	1002	NDG	C1-C2	2.78	1.56	1.52
4	B	1001	NAG	C1-C2	3.65	1.57	1.52

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	1002	NDG	C2-N2-C7	2.54	126.31	123.04
4	B	1002	NDG	C3-C4-C5	2.68	114.87	110.20
4	B	1001	NAG	O4-C4-C3	3.23	117.61	110.34
4	B	1002	NDG	C1-O-C5	3.43	116.60	112.25
4	B	1001	NAG	C1-O5-C5	3.57	116.78	112.25

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.6 Ligand geometry

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
5	NAG	F	1001	3	14,14,15	1.28	2 (14%)	15,19,21	1.14	1 (6%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	NAG	F	1001	3	-	0/6/23/26	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	1001	NAG	C3-C2	2.06	1.57	1.52
5	F	1001	NAG	C1-C2	3.20	1.56	1.52

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1001	NAG	C4-C3-C2	2.86	115.67	111.23

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	55/65 (84%)	0.16	0 100 100	63, 81, 92, 101	0
2	B	338/360 (93%)	0.28	11 (3%) 50 22	45, 77, 109, 155	0
3	F	382/473 (80%)	0.83	66 (17%) 2 1	48, 85, 165, 177	0
All	All	775/898 (86%)	0.54	77 (9%) 9 3	45, 81, 163, 177	0

All (77) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	F	326	GLY	10.9
3	F	327	LYS	7.3
3	F	379	GLU	6.4
3	F	365	PHE	6.3
3	F	360	LEU	6.2
3	F	328	CYS	6.1
2	B	342	LEU	5.9
3	F	351	GLN	4.9
3	F	353	GLN	4.9
2	B	206	SER	4.7
3	F	337	VAL	4.7
3	F	354	ILE	4.6
3	F	352	LEU	4.4
3	F	345	GLU	4.2
3	F	381	HIS	4.2
3	F	348	GLY	4.1
3	F	292	ASP	4.0
3	F	324	LYS	3.8
3	F	356	PHE	3.7
3	F	343	GLU	3.6
3	F	316	ALA	3.6
3	F	358	THR	3.5
3	F	318	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
3	F	333	MET	3.3
3	F	139	GLY	3.3
3	F	325	LYS	3.2
2	B	205	GLY	3.1
3	F	305	ALA	3.1
2	B	280	LYS	3.1
3	F	331	HIS	3.1
3	F	357	SER	3.0
2	B	281	ASN	3.0
3	F	362	SER	3.0
3	F	320	TYR	3.0
3	F	349	ASN	3.0
3	F	306	CYS	3.0
3	F	361	ALA	2.9
3	F	344	ILE	2.9
3	F	370	CYS	2.9
3	F	377	ALA	2.9
2	B	282	GLN	2.9
3	F	140	ASN	2.8
3	F	347	GLU	2.6
3	F	363	ALA	2.6
3	F	308	HIS	2.6
3	F	359	ALA	2.6
3	F	302	GLU	2.6
2	B	223	ASP	2.5
3	F	135	VAL	2.5
2	B	184	GLN	2.5
3	F	27	MET	2.4
3	F	364	GLU	2.4
3	F	294	PRO	2.4
2	B	146	GLN	2.4
2	B	162	ALA	2.3
3	F	313	GLY	2.3
3	F	311	ASP	2.3
3	F	278	ILE	2.3
3	F	373	GLN	2.3
3	F	136	LEU	2.3
3	F	312	PHE	2.2
3	F	144	VAL	2.2
3	F	19	VAL	2.2
3	F	303	VAL	2.2
3	F	1	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
3	F	161	PHE	2.2
3	F	366	ARG	2.1
3	F	89	TRP	2.1
3	F	378	ALA	2.1
3	F	371	SER	2.1
3	F	376	CYS	2.1
3	F	159	ALA	2.0
3	F	283	PRO	2.0
2	B	219	ASN	2.0
3	F	291	VAL	2.0
3	F	133	LEU	2.0
3	F	314	GLY	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
4	NAG	B	1001	14/15	0.88	0.16	-1.92	78,82,85,85	0
4	NDG	B	1002	14/15	0.82	0.27	-	85,89,91,91	0

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
5	NAG	F	1001	14/15	0.60	0.35	-0.22	115,119,121,121	0

6.5 Other polymers

There are no such residues in this entry.