

Peptide Array, Hepatitis C Virus, J4, NS3 Protein

Catalog No. NR-3742

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Product Description: The 98-peptide array spans the NS3 protein of hepatitis C virus, J4 (genotype 1b; GenPept: BAA01583). Peptides are 15- to 19-mers, with 11 or 12 amino acid overlaps.

Lot: N661-1 to N661-98

The following information applies to all peptides:

- Appearance White lyophilized powder
- Mass spectral analysis Correct MW by MALDI-TOF
- Counter Ion Trifluoroacetate

Peptide-specific information is shown in the two tables below.

Table 1							
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
1 of 98	7/26/2006	18	1 APITAYSQQTRGVLCII 18	1891.24	0.57	94.5%	89.2%
2 of 98	7/26/2006	18	7 SQQTRGVLCIITSLTGR 24	1890.21	0.13	88.2%	84.7%
3 of 98	7/26/2006	16	14 LGCIIITSLTGRDKNQV 29	1718.02	0.09	99.2%	83.4%
4 of 98	7/26/2006	18	19 TSLTGRDKNQVEGEVQVV 36	1959.16	-0.66	87.5%	85.1%
5 of 98	7/26/2006	18	26 KNQVEGEVQVVSTATQSF 43	1951.14	-0.38	93.7%	89.5%
6 of 98	7/26/2006	16	33 VQVVSTATQSFLATCI 48	1667.96	1.19	98.7%	88.0%
7 of 98	7/26/2006	18	38 TATQSFLATCINGVCWTV 55	1915.23	0.9	89.9%	89.4%
8 of 98	7/26/2006	18	45 ATCINGVCWTVYHGAGSK 62	1867.15	0.29	96.8%	84.5%
9 of 98	7/26/2006	17	52 CWTVYHGAGSKTLGPK 68	1776.06	-0.24	93.4%	79.6%
10 of 98	7/26/2006	18	58 GAGSKTLGPKGPKITQMY 75	1777.09	-0.32	99.1%	83.9%
11 of 98	7/26/2006	18	65 AGPKGPKITQMYTNVDL 82	1933.23	-0.26	99.1%	89.5%
12 of 98	7/26/2006	16	72 TQMYTNVDLVLGVQA 87	1854.08	-0.11	93.4%	89.1%
13 of 98	7/26/2006	18	77 NVDLVLGVQAPPGARSM 94	1926.20	-0.15	99.6%	89.4%
14 of 98	7/26/2006	18	84 GWQAPPGARSMTPCSCGS 101	1793.05	-0.42	91.7%	91.2%
15 of 98	7/26/2006	17	91 ARSMTPCSCGSSDLYLV 107	1790.08	0.31	97.2%	88.7%
16 of 98	7/26/2006	18	97 CSCGSSDLYLVTRHADVI 114	1939.21	0.43	94.4%	85.0%
17 of 98	7/26/2006	16	104 LYLVTRHADVIPVRRR 119	1964.37	-0.11	98.9%	74.2%
18 of 98	7/26/2006	18	109 RHADVIPVRRRGDSRGS 126	2047.33	-1.01	98.4%	72.0%
19 of 98	7/26/2006	17	116 VRRRGDSRGSLLSPRPV 132	1908.21	-0.96	98.8%	73.6%
20 of 98	7/26/2006	15	122 SRGSLLSPRPVSYLK 136	1659.96	-0.36	99.4%	78.5%
21 of 98	7/26/2006	18	126 LLSRPVSYLKSSGGPL 143	1828.16	0.03	99.2%	84.2%
22 of 98	7/26/2006	18	133 SYLKSSGGPILCPSGHV 150	1759.03	0.09	99.5%	83.7%
23 of 98	7/26/2006	18	140 GGPLLCPSGHVGVFRAA 157	1737.07	0.88	99.1%	83.6%
24 of 98	7/26/2006	18	147 SGHVGVFRAAVCTRGVA 164	1786.10	0.93	88.3%	79.7%
25 of 98	7/26/2006	17	154 FRAAVCTRGVAKAVDFI 170	1824.19	0.88	87.5%	80.0%
26 of 98	7/26/2006	16	160 TRGVAKAVDFIPVESM 175	1720.04	0.41	99.0%	83.4%
27 of 98	7/26/2006	16	165 KAVDFIPVESMETTMR 180	1854.19	-0.09	94.1%	84.4%
28 of 98	7/26/2006	15	170 IPVESMETTMRSPVF 184	1724.04	0.12	92.6%	88.3%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
29 of 98	7/26/2006	19	174 SMETTMRSPVFTDNSTPPA 192	2069.31	-0.65	98.7%	90.1%
30 of 98	7/26/2006	18	182 PVFTDNSTPPAVPQTFQV 199	1945.18	-0.18	99.4%	89.5%
31 of 98	7/26/2006	16	189 TPPAVPQTFQVAHLHA 204	1713.97	0.05	93.8%	83.4%
32 of 98	7/26/2006	17	194 PQTFQVAHLHAPTGS GK 210	1776.0	-0.54	90.2%	79.6%
33 of 98	7/26/2006	18	200 AHLHAPTGS GKSTKVPAA 217	1729.97	-0.33	98.8%	75.2%
34 of 98	7/26/2006	18	207 GSGKSTKVPAA YAAQGYK 224	1784.02	-0.64	99.0%	79.6%
35 of 98	7/26/2006	15	214 VPAAYAAQGYKVLVL 228	1562.89	1.03	94.5%	87.3%
36 of 98	7/26/2006	17	218 YAAQGYKVLVLNPSVAA 234	1765.07	0.65	99.2%	88.6%
37 of 98	7/26/2006	18	224 KVLVLNPSVAATLGF GAY 241	1820.18	1.09	99.0%	88.9%
38 of 98	7/26/2006	18	231 SVAATLGF GAYMSKAHGI 248	1781.08	0.69	93.7%	83.9%
39 of 98	7/26/2006	16	238 FGAYMSKAHGIDPNIR 253	1777.05	-0.36	99.4%	79.6%
40 of 98	7/26/2006	17	243 SKAHGIDPNIR TGVRTI 259	1835.11	-0.48	88.3%	76.3%
41 of 98	7/26/2006	17	249 DPNIR TGVRTIT TGGSI 265	1757.98	-0.28	99.4%	83.7%
42 of 98	7/26/2006	18	255 GVRTIT TGGSITYSTY GK 272	1862.09	-0.25	91.5%	84.5%
43 of 98	7/26/2006	18	262 GGSITYSTY GKFLADGGC 279	1796.99	0.02	97.7%	88.7%
44 of 98	7/26/2006	18	269 TYGKFLADGGC SGGAYDI 286	1794.97	0.01	97.7%	88.7%
45 of 98	7/26/2006	18	276 DGGCSGGAYDIICDECH 293	1828.0	0.11	86.6%	88.9%
46 of 98	7/26/2006	18	283 AYDIICDECHSTDSTTI 300	2000.2	0.14	86.8%	89.8%
47 of 98	7/26/2006	18	290 DECHSTDSTTILGIGTVL 307	1862.06	0.24	92.1%	89.1%
48 of 98	7/26/2006	17	297 STTILGIGTVLDQAETA 313	1689.89	0.56	93.7%	88.1%
49 of 98	7/26/2006	18	303 IGTVLDQAETAGARLVVL 320	1826.14	0.93	91.0%	88.9%
50 of 98	7/26/2006	18	310 AETAGARLVV LATATPPG 327	1694.96	0.61	83.4%	88.1%
51 of 98	7/26/2006	17	317 LVV LATATPPGSVTVPH 333	1658.97	0.98	99.3%	87.9%
52 of 98	7/26/2006	17	323 ATPPGSVTVPHNIEEI 339	1757.98	-0.21	99.5%	88.5%
53 of 98	7/26/2006	19	329 VTVPHNIEEIGLSNNGEI 347	2032.26	-0.21	99.0%	89.9%
54 of 98	7/26/2006	18	337 EEIGLSNNGEIPFYGKAI 354	1951.18	-0.24	99.4%	89.5%
55 of 98	7/26/2006	17	344 NGEIPFYGKAIPIEAIK 360	1860.2	0.05	99.4%	84.5%
56 of 98	7/26/2006	18	350 YGKAIPIEAIKGRHLIF 367	1983.41	0.28	90.2%	77.7%
57 of 98	7/26/2006	17	357 EAIKGRHLIFCHSKKK 373	1952.37	-0.69	99.1%	68.2%
58 of 98	7/26/2006	18	363 RHLIFCHSKKKCELA AK 380	2127.58	-0.6	92.6%	70.0%
59 of 98	7/26/2006	17	370 SKKKCELA AKLTGLGL 386	1775.16	-0.21	98.6%	75.7%
60 of 98	7/26/2006	18	376 ELAAKLTGLGLNAVAYYR 393	1923.26	0.39	95.1%	84.9%
61 of 98	7/26/2006	18	383 GLGLNAVAYYRGLDVSVI 400	1880.19	0.89	97.6%	89.2%
62 of 98	7/26/2006	18	390 AYYRGLDVSVIPIGD VV 407	1933.25	0.69	99.7%	89.5%
63 of 98	7/26/2006	18	397 VSVIPIGDVVVVATDAL 414	1764.11	1.64	87.8%	88.6%
64 of 98	7/26/2006	15	404 GDVVVVATDALMTGF 418	1494.74	1.31	96.4%	86.8%
65 of 98	7/26/2006	18	408 VVATDALMTGFTGDFDSV 425	1846.06	0.74	93.8%	89.0%
66 of 98	7/26/2006	18	415 MTGFTGDFDSVIDCNTCV 432	1925.16	0.43	97.4%	89.4%
67 of 98	7/26/2006	17	422 FDSVIDCNTCVTQTVD F 438	1907.12	0.43	Crude	89.3%
68 of 98	7/26/2006	17	428 CNTCVTQTVD FSLDPT F 444	1891.12	0.21	82.1%	89.2%
69 of 98	7/26/2006	19	433 TQTVD FSLDPTFTIETT V 451	2116.32	0.05	84.7%	90.3%
70 of 98	7/26/2006	18	441 DPTFTIETTVPQDAVSR 458	1978.16	-0.47	99.7%	89.7%
71 of 98	7/26/2006	17	448 TTTVPQDAVSR SQRGR 464	1915.11	-1.41	97.9%	77.1%
72 of 98	7/26/2006	16	454 DAVSR SQRGRGTGRGR 469	1815.0	-1.97	90.8%	69.5%
73 of 98	7/26/2006	18	459 SQRGRGTGRGRSGIYRFV 476	2109.4	-1.34	92.6%	72.6%
74 of 98	7/26/2006	16	466 GRGRSGIYRFVTPGER 481	1808.05	-1	93.6%	76.0%
75 of 98	7/26/2006	16	471 GIYRFVTPGERPSGMF 486	1814.11	-0.22	98.4%	84.1%

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
76 of 98	7/26/2006	16	476 VTPGERPSGMFDSSVL 491	1678.9	-0.11	98.1%	88.0%
77 of 98	7/26/2006	17	481 RPSGMFDSSVLCECYDA 497	1880.12	-0.07	85.7%	89.2%
78 of 98	7/26/2006	18	487 DSSVLCECYDAGCAWYEL 504	2027.25	0.19	93.6%	89.9%
79 of 98	7/26/2006	18	494 CYDAGCAWYELTPAETSV 511	1979.19	0.01	93.3%	89.7%
80 of 98	7/26/2006	17	501 WYELTPAETSVRLRAYL 517	2068.38	-0.24	98.5%	85.8%
81 of 98	7/26/2006	18	507 AETSVRLRAYLNTPLPV 524	1957.28	0.02	91.1%	85.1%
82 of 98	7/26/2006	18	514 RAYLNTPLPVCQDHLF 531	2073.38	-0.26	96.8%	85.8%
83 of 98	7/26/2006	16	521 GLPVCQDHLFVWESVF 536	1906.16	0.2	99.7%	89.3%
84 of 98	7/26/2006	18	525 CQDHLFVWESVFTGLTHI 542	2162.43	0.03	96.3%	86.3%
85 of 98	7/26/2006	16	532 WESVFTGLTHIDAHFL 547	1873.11	0.42	98.0%	84.6%
86 of 98	7/26/2006	17	537 TGLTHIDAHFLSQTQKA 553	1868.1	-0.33	89.2%	80.4%
87 of 98	7/26/2006	18	543 DAHFLSQTQAGDNFPYL 560	2052.25	-0.7	99.5%	85.7%
88 of 98	7/26/2006	18	550 TKQAGDNFPYLVAYQATV 567	1986.23	-0.19	99.7%	89.7%
89 of 98	7/26/2006	17	557 FPYLVAYQATVCARAQA 573	1872.19	0.59	95.3%	89.1%
90 of 98	7/26/2006	16	563 YQATVCARAQAPPPSW 578	1745.99	-0.38	85.9%	88.5%
91 of 98	7/26/2006	18	568 CARAQAPPSWDQMWKCL 585	2088.48	-0.57	96.2%	85.9%
92 of 98	7/26/2006	18	575 PPSWDQMWKCLIRLKPTL 592	2212.73	-0.39	94.8%	82.9%
93 of 98	7/26/2006	18	582 WKCLIRLKPTLHGPTPLL 599	2086.64	0.17	97.2%	78.5%
94 of 98	7/26/2006	17	589 KPTLHGPTPLLYRLGAV 605	1833.22	0.08	97.2%	80.1%
95 of 98	7/26/2006	17	595 PTPLLYRLGAVQNEVIL 611	1896.28	0.55	97.3%	89.3%
96 of 98	7/26/2006	18	601 RLGAVQNEVILTHPITKY 618	2052.42	0	87.7%	81.8%
97 of 98	7/26/2006	18	608 EVILTHPITKYIMACMSA 625	2021.51	0.87	99.3%	85.5%
98 of 98	7/26/2006	17	615 ITKYIMACMSADLEVVT 631	1888.31	0.98	93.7%	89.2%

^a% full-length
^bRemainder is salt and water

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
1 of 98	Expected	2.00	1.00		1.00	2.00	2.00		3.00	1.00				1.00	1.00	2.00		1.00	1.00
	Actual	1.77	1.01		0.490 ^a	1.82	2.24		1.62 ^b	0.77				1.00	0.96	1.64		1.08	0.77
2 of 98	Expected		2.00		1.00	2.00	3.00		2.00	2.00					2.00	3.00			1.00
	Actual		2.00		0.47 ^a	2.05	3.03		0.94 ^b	1.70					2.09	2.61			0.79
3 of 98	Expected		1.00	2.00	1.00	1.00	2.00		2.00	2.00	1.00				1.00	2.00			1.00
	Actual		1.09	2.11	0.48 ^a	1.06	2.08		1.16 ^b	2.00	1.15				1.07	1.85			1.09
4 of 98	Expected		1.00	2.00		4.00	2.00			1.00	1.00				1.00	2.00			4.00
	Actual		1.00	1.94		3.71	2.10			0.91	0.96				0.85	1.72			2.68 ^b
5 of 98	Expected	1.00		1.00		5.00	1.00				1.00		1.00		2.00	2.00			4.00
	Actual	1.00		0.94		4.60	1.10				0.98		0.94		1.84	1.73			2.77 ^b
6 of 98	Expected	2.00			1.00	2.00			1.00	1.00			1.00		2.00	3.00			3.00
	Actual	2.25			0.62 ^a	1.82			1.15	1.22			1.08		2.00	2.55			1.78 ^b
7 of 98	Expected	2.00		1.00	2.00	1.00	1.00		1.00	1.00			1.00		1.00	4.00	1.00		2.00
	Actual	2.00		0.95	0.970 ^a	0.94	1.02		0.82	0.98			0.91		1.03	2.95	0.00 ^c		1.94
8 of 98	Expected	2.00		1.00	2.00		3.00	1.00	1.00		1.00				1.00	2.00	1.00	1.00	2.00
	Actual	2.00		1.00	0.92 ^a		2.96	1.08	0.91		1.01				1.00	1.27	0.00 ^c	0.88	1.76
9 of 98	Expected	2.00			1.00		3.00	1.00		1.00	2.00			1.00	1.00	2.00	1.00	1.00	1.00
	Actual	1.79			0.61 ^a		2.87	1.05		0.84	2.24			1.00	0.94	1.44	0.00 ^c	0.87	0.82
10 of 98	Expected	2.00				1.00	4.00		1.00	1.00	2.00	1.00		2.00	1.00	2.00			1.00
	Actual	1.89				1.01	3.99		1.00	0.96	1.89	0.90		2.00	1.01	1.69			0.97

Table 2 - Amino Acid Analysis

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
11 of 98	Expected	1.00		3.00		1.00	2.00		1.00	2.00	1.00	1.00		2.00		2.00		1.00	1.00
	Actual	1.02		2.96		0.98	2.16		0.98	1.88	1.04	0.97		2.00		1.66		0.99	0.92
12 of 98	Expected	1.00		3.00		2.00	1.00			2.00		1.00				2.00	1.00	1.00	2.00
	Actual	1.00		2.73		1.81	0.89			1.76		0.99				1.63	0.00 ^c	1.02	1.82
13 of 98	Expected	2.00	1.00	3.00		1.00	2.00			2.00		1.00		2.00	1.00		1.00		2.00
	Actual	1.82	1.12	2.61		0.89	2.00			1.79		1.02		2.07	0.98		0.00 ^c		1.80
14 of 98	Expected	2.00	1.00		2.00	1.00	3.00					1.00		3.00	3.00	1.00	1.00		0.00
	Actual	2.00	1.08		0.91 ^a	0.96	2.74					1.01		2.97	2.58	0.93	0.00 ^c		0.00
15 of 98	Expected	1.00	1.00	1.00	2.00		1.00			2.00		1.00		1.00	4.00	1.00		1.00	1.00
	Actual	0.98	0.96	1.02	0.89 ^a		1.08			1.75		0.95		1.00	3.60	0.82		1.00	0.94
16 of 98	Expected	1.00	1.00	2.00	2.00		1.00	1.00	1.00	2.00					3.00	1.00		1.00	2.00
	Actual	1.07	0.96	2.01	0.71 ^a		1.00	1.00	0.69 ^b	1.72					2.62	0.88		0.84	1.47 ^b
17 of 98	Expected	1.00	4.00	1.00				1.00	1.00	2.00				1.00		1.00		1.00	3.00
	Actual	1.00	3.72	1.02				1.12	0.62 ^b	1.77				1.09		0.95		0.94	2.36 ^p
18 of 98	Expected	1.00	5.00	2.00			2.00	1.00	1.00	1.00				1.00	2.00				2.00
	Actual	0.96	5.22	1.99			2.00	1.07	0.61 ^b	1.01				1.05	1.89				1.49 ^b
19 of 98	Expected		5.00	1.00			2.00			2.00				2.00	3.00				2.00
	Actual		4.70	1.07			2.00			1.87				2.11	2.95				1.87
20 of 98	Expected		2.00				1.00			3.00	1.00			2.00	4.00			1.00	1.00
	Actual		1.72				0.98			2.70	1.02			2.00	3.40			1.06	1.00
21 of 98	Expected		1.00				3.00			4.00	1.00			3.00	4.00			1.00	1.00
	Actual		1.07				3.09			3.54	0.97			2.84	3.49			1.00	0.98
22 of 98	Expected				1.00		4.00	1.00		3.00	1.00			2.00	4.00			1.00	1.00
	Actual				0.52 ^a		3.67	0.82		2.72	0.90			2.00	3.31			1.08	0.92
23 of 98	Expected	2.00	1.00		1.00		4.00	1.00		2.00			1.00	2.00	1.00				3.00
	Actual	1.71	1.00		0.49 ^a		3.86	0.98		1.96			1.01	2.08	0.97				1.85 ^p
24 of 98	Expected	3.00	2.00		1.00		3.00	1.00					1.00		1.00	1.00			5.00
	Actual	2.73	1.84		0.46 ^a		3.00	1.16					0.94		1.04	0.77			3.90 ^p
25 of 98	Expected	4.00	2.00	1.00	1.00		1.00		1.00		1.00		2.00			1.00			3.00
	Actual	3.61	1.88	1.05	0.59 ^a		1.20	0.98		1.07			1.69			1.00			2.79
26 of 98	Expected	2.00	1.00	1.00		1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00			3.00
	Actual	2.00	0.97	0.92		0.89	1.07		0.76		0.94	1.13	0.96	0.99	1.02	0.92			2.70
27 of 98	Expected	1.00	1.00	1.00		2.00			1.00		1.00	2.00	1.00	1.00	1.00	2.00			2.00
	Actual	1.00	1.08	0.89		1.79			0.85		0.98	1.86	0.95	0.84	1.05	1.78			1.79
28 of 98	Expected		1.00			2.00			1.00			2.00	1.00	2.00	2.00	2.00			2.00
	Actual		1.04			1.92			0.96			1.85	1.13	2.00	1.80	1.66			1.71
29 of 98	Expected	1.00	1.00	2.00		1.00						2.00	1.00	3.00	3.00	4.00			1.00
	Actual	0.89	1.07	2.02		1.05						2.00	1.16	2.77	2.66	3.11			0.97
30 of 98	Expected	1.00		2.00		2.00							2.00	4.00	1.00	3.00			3.00
	Actual	1.08		2.00		2.11							1.90	4.00	0.99	2.67			2.81
31 of 98	Expected	3.00				2.00		2.00	0.00	1.00			1.00	3.00		2.00			2.00
	Actual	2.77				2.07		1.88	0.00	0.94			0.98	3.00		1.74			1.93
32 of 98	Expected	2.00				2.00	2.00	2.00		1.00	1.00		1.00	2.00	1.00	2.00			1.00
	Actual	1.88				1.97	1.93	2.10		0.96	1.06		0.94	2.00	0.96	1.68			1.07
33 of 98	Expected	4.00					2.00	2.00		1.00	2.00			2.00	2.00	2.00			1.00
	Actual	3.79					2.11	3.05		1.16	1.77			2.00	2.03	1.73			0.79
34 of 98	Expected	4.00				1.00	3.00				3.00			1.00	2.00	1.00		2.00	1.00
	Actual	3.69				0.93	3.15				2.71			1.05	1.90	0.81		2.00	0.99
35 of 98	Expected	4.00				1.00	1.00			2.00	1.00			1.00				2.00	3.00
	Actual	3.64				1.01	1.13			1.70	0.91			1.00				1.56	2.78
36 of 98	Expected	4.00		1.00		1.00	1.00			2.00	1.00			1.00	1.00			2.00	3.00
	Actual	3.63		0.95		0.89	1.02			1.63	0.95			1.00	0.91			1.78	2.84

Table 2 - Amino Acid Analysis

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
37 of 98	Expected	3.00		1.00			2.00			3.00	1.00		1.00	1.00	1.00	1.00		1.00	3.00
	Actual	2.64		0.99			2.06			2.64	0.94		0.90	1.00	0.97	0.87		0.91	2.80
38 of 98	Expected	4.00					3.00	1.00	1.00	1.00	1.00	1.00	1.00		2.00	1.00		1.00	1.00
	Actual	3.72					2.75	1.03	0.89	0.95	0.86	0.91	0.89		1.75	0.83		1.00	0.94
39 of 98	Expected	2.00	1.00	2.00			2.00	1.00	2.00		1.00	1.00	1.00	1.00	1.00				1.00
	Actual	1.76	0.73	1.73			1.92	1.07	1.61		0.83	0.87	0.86	1.00	0.93				0.99
40 of 98	Expected	1.00	2.00	2.00			2.00	1.00	3.00		1.00			1.00	1.00	2.00			1.00
	Actual	0.89	1.71	1.64			1.87	1.02	2.59		0.85			1.00	0.92	1.53			0.81
41 of 98	Expected		2.00	2.00			3.00		3.00					1.00	1.00	4.00			1.00
	Actual		1.86	1.83			3.00		2.78					1.05	0.94	3.54			0.97
42 of 98	Expected		1.00				4.00		2.00	0.00	1.00				2.00	5.00		2.00	1.00
	Actual		0.84				4.23		1.98	0.00	1.03				2.08	4.58		2.00	0.94
43 of 98	Expected	1.00		1.00	1.00		5.00		1.00	1.00	1.00		1.00		2.00	2.00		2.00	
	Actual	1.00		0.99	0.52 ^a		4.99		0.95	1.05	0.96		0.96		1.67	1.64		2.00	
44 of 98	Expected	2.00		2.00	1.00		5.00		1.00	1.00	1.00		1.00		1.00	1.00		2.00	
	Actual	1.76		1.83	0.51 ^a		4.77		1.02	1.00	0.88		0.91		0.99	0.79		2.00	
45 of 98	Expected	1.00		3.00	3.00	1.00	4.00	1.00	3.00						1.00				1.00
	Actual	1.00		2.81	1.48 ^a	0.94	3.89	0.99	1.79 ^b						1.04				1.03
46 of 98	Expected	1.00		3.00	2.00	1.00		1.00	4.00						2.00	3.00			1.00
	Actual	1.01		2.93	0.90 ^a	0.98		0.93	2.51 ^b							1.73	2.63		1.00
47 of 98	Expected			2.00	1.00	1.00	2.00	1.00	2.00	2.00					2.00	4.00			1.00
	Actual			2.07	0.50 ^a	0.99	2.13	1.14	1.98	1.85					2.02	3.99			1.00
48 of 98	Expected	2.00		1.00		2.00	2.00		2.00	2.00					1.00	4.00			1.00
	Actual	2.00		1.14		2.00	2.12		1.92	1.82					1.21	3.98			0.78
49 of 98	Expected	3.00	1.00	1.00		2.00	2.00		1.00	3.00						2.00			3.00
	Actual	3.00	1.20	0.96		1.75	1.84		0.90	3.10						1.81			2.58 ^b
50 of 98	Expected	5.00	1.00			1.00	2.00			2.00				2.00		3.00			2.00
	Actual	4.84	1.19			1.20	2.04			2.00				1.76		2.53			1.25 ^b
51 of 98	Expected	2.00					1.00	1.00		2.00					3.00	1.00	3.00		4.00
	Actual	1.90					1.08	1.08		1.78					2.85	1.00	2.57		2.63 ^b
52 of 98	Expected	1.00		1.00		2.00	1.00	1.00	2.00						4.00	1.00	2.00		2.00
	Actual	1.00		1.01		1.74	1.11	1.20	1.95						3.82	1.04	1.60		1.93
53 of 98	Expected			3.00		3.00	2.00	1.00	3.00	1.00				2.00	1.00	1.00			2.00
	Actual			2.98		2.95	2.00	0.91	2.64	1.10					1.86	1.01	0.75		1.70
54 of 98	Expected	1.00		2.00		3.00	3.00		3.00	1.00	1.00		1.00	1.00	1.00				1.00
	Actual	0.98		2.03		2.74	2.97		2.78	1.10	1.00		0.98	1.11	1.04				1.06
55 of 98	Expected	2.00		1.00		2.00	2.00		4.00		2.00		1.00	2.00					1.00
	Actual	1.91		0.97		1.70	2.07		3.69		1.83		0.98	2.00					1.04
56 of 98	Expected	2.00	1.00			1.00	3.00	1.00	4.00	1.00	2.00		1.00	1.00					1.00
	Actual	1.71	0.98			0.85	2.70	1.09	3.77	1.01	1.62		0.76	1.00					0.91
57 of 98	Expected	1.00	1.00		1.00	1.00	2.00	2.00	2.00	1.00	4.00		1.00		1.00				
	Actual	0.98	1.05		0.52 ^a	0.89	2.04	2.00	1.60	1.00	3.65		0.66		0.97				
58 of 98	Expected	2.00	1.00	1.00	2.00	1.00		2.00	1.00	2.00	4.00		1.00		1.00				
	Actual	2.00	1.08	1.04	0.99 ^a	0.99		2.03	0.80	2.02	3.77		0.75		1.08				
59 of 98	Expected	2.00		1.00	1.00	1.00	2.00			4.00	4.00				1.00	1.00			
	Actual	2.00		1.03	0.48 ^a	0.93	2.07			3.80	3.90				0.80	0.79			
60 of 98	Expected	4.00	1.00	1.00		1.00	2.00			4.00	1.00					1.00		2.00	1.00
	Actual	3.72	1.05	1.03		0.97	2.29			3.40	1.02					0.93		2.00	1.06
61 of 98	Expected	2.00	1.00	2.00			3.00		1.00	3.00					1.00			2.00	3.00
	Actual	1.86	1.07	2.05			3.00		0.74 ^b	2.79					1.06			1.82	2.47 ^b
62 of 98	Expected	1.00	1.00	2.00			2.00		2.00	1.00				2.00	1.00			2.00	4.00
	Actual	0.89	1.00	1.75			1.93		1.65 ^b	1.02				1.93	0.94			1.82	2.45 ^b

Table 2 - Amino Acid Analysis

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
63 of 98	Expected	2.00		2.00			1.00		2.00	1.00				2.00	1.00	1.00			6.00
	Actual	1.93		2.10			0.89		1.66 ^b	1.05				2.00	0.92	0.90			2.69 ^b
64 of 98	Expected	2.00		2.00			2.00			1.00		1.00	1.00			2.00			4.00
	Actual	1.88		2.00			2.12			1.02		1.00	0.92			1.73			1.85 ^b
65 of 98	Expected	2.00		3.00			2.00			1.00		1.00	2.00		1.00	3.00			3.00
	Actual	1.75		2.66			2.07			1.15		1.16	1.90		1.00	2.62			1.48 ^b
66 of 98	Expected			4.00	2.00		2.00		1.00			1.00	2.00		1.00	3.00			2.00
	Actual			4.00	0.79 ^a		2.19		0.71 ^b			0.78	1.81		1.04	2.51			1.48 ^b
67 of 98	Expected			4.00	2.00	1.00			1.00				2.00		1.00	3.00			3.00
	Actual			4.28	0.98 ^a	0.99			0.80 ^b				2.00		1.31	2.55			2.47 ^b
68 of 98	Expected			3.00	2.00	1.00				1.00			2.00	1.00	1.00	4.00			2.00
	Actual			2.77	0.82 ^a	1.00				1.00			1.78	0.99	1.03	3.53			1.70
69 of 98	Expected			2.00		2.00			1.00	1.00			2.00	1.00	1.00	7.00		2.00	
	Actual			1.88		1.91			0.93	1.00			1.70	1.00	1.06	6.50		1.96	
70 of 98	Expected	1.00	1.00	2.00		2.00			1.00				1.00	2.00	1.00	5.00			2.00
	Actual	1.00	1.13	1.62		1.65			1.07				0.93	1.83	1.12	4.59			1.78
71 of 98	Expected	1.00	4.00	1.00		2.00	1.00							1.00	2.00	3.00			2.00
	Actual	1.00	4.04	1.05		1.78	0.86							0.94	2.03	2.59			1.75
72 of 98	Expected	1.00	6.00	1.00		1.00	3.00								2.00	1.00			1.00
	Actual	0.96	5.73	1.03		0.94	2.87								2.10	0.95			1.00
73 of 98	Expected		6.00			1.00	4.00		1.00				1.00		2.00	1.00		1.00	1.00
	Actual		5.69			0.94	3.68		1.00				0.86		2.10	1.13		1.00	0.89
74 of 98	Expected		4.00			1.00	4.00		1.00				1.00	1.00	1.00	1.00		1.00	1.00
	Actual		3.82			1.05	3.91		0.99				0.99	1.00	1.11	0.88		1.03	0.85
75 of 98	Expected		2.00			1.00	3.00		1.00			1.00	2.00	2.00	1.00	1.00		1.00	1.00
	Actual		2.00			0.92	3.00		0.91			1.06	1.74	1.82	1.14	0.96		1.24	0.82
76 of 98	Expected		1.00	1.00		1.00	2.00			1.00		1.00	1.00	2.00	3.00	1.00			2.00
	Actual		1.06	1.09		0.98	2.16			0.85		1.01	0.97	1.93	3.00	0.91			1.72
77 of 98	Expected	1.00	1.00	2.00	2.00	1.00	1.00			1.00		1.00	1.00	1.00	3.00			1.00	1.00
	Actual	0.80	1.19	1.79	0.88 ^a	1.05	1.26			0.80		0.94	0.98	1.00	2.73			1.08	0.83
78 of 98	Expected	2.00		2.00	3.00	2.00	1.00			2.00					2.00		1.00	2.00	1.00
	Actual	2.29		1.89	1.47 ^a	2.03	1.35			1.92					1.67		0.00 ^c	2.00	0.83
79 of 98	Expected	3.00		1.00	2.00	2.00	1.00			1.00				1.00	1.00	2.00	1.00	2.00	1.00
	Actual	2.62		0.93	0.84 ^a	1.77	1.06			0.95				1.00	0.97	1.66	0.00 ^c	1.92	0.96
80 of 98	Expected	2.00	2.00			2.00				3.00				1.00	1.00	2.00	1.00	2.00	1.00
	Actual	2.00	1.77			1.83				2.69				1.13	1.11	1.55	0.00 ^c	1.97	0.91
81 of 98	Expected	2.00	2.00	1.00		1.00	1.00			3.00				2.00	1.00	2.00		1.00	2.00
	Actual	1.85	1.76	1.00		0.97	1.17			2.75				1.87	1.05	1.65		1.05	1.88
82 of 98	Expected	1.00	1.00	2.00	1.00	2.00	1.00	1.00		3.00			1.00	2.00		1.00		1.00	1.00
	Actual	0.96	1.06	1.86	0.53 ^a	1.78	1.09	1.04		2.60			0.99	2.00		0.94		1.12	1.01
83 of 98	Expected			1.00	1.00	3.00	1.00	1.00		2.00			2.00	1.00	1.00		1.00		2.00
	Actual			0.93	0.49 ^a	2.52	1.00	1.07		1.77			1.57	1.05	0.97		0.00 ^c		1.79
84 of 98	Expected			1.00	1.00	3.00	1.00	2.00	1.00	2.00			2.00		1.00	2.00	1.00		1.00
	Actual			1.09	0.47 ^a	2.71	1.05	1.70	1.00	1.81			1.55		1.00	1.55	0.00 ^c		0.81
85 of 98	Expected	1.00		1.00		1.00	1.00	2.00	1.00	2.00			2.00		1.00	2.00	1.00		1.00
	Actual	1.00		1.00		0.92	1.04	2.20	0.93	1.69			1.70		1.08	1.61	0.00 ^c		0.97
86 of 98	Expected	2.00		1.00		2.00	1.00	2.00	1.00	2.00	1.00		1.00		1.00	3.00			
	Actual	2.19		0.80		2.02	1.14	2.00	0.86	1.88	0.98		0.83		1.10	2.48			
87 of 98	Expected	2.00		3.00		2.00	1.00	1.00		2.00	1.00		2.00	1.00	1.00	1.00		1.00	
	Actual	1.66		2.63		1.61	1.03	1.04		1.69	0.79		1.61	0.89	0.97	0.89		1.00	
88 of 98	Expected	3.00		2.00		2.00	1.00			1.00	1.00		1.00	1.00		2.00		2.00	2.00
	Actual	2.75		1.96		1.83	1.14			0.89	0.96		0.89	1.00		1.73		1.89	1.84

Table 2 - Amino Acid Analysis

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
89 of 98	Expected	5.00	1.00		1.00	2.00				1.00			1.00	1.00		1.00		2.00	2.00
	Actual	4.66	0.86		0.55 ^a	1.64				1.05			1.06	1.22		0.74		1.92	2.00
90 of 98	Expected	4.00	1.00		1.00	2.00								3.00	1.00	1.00	1.00	1.00	1.00
	Actual	3.61	1.00		0.52 ^a	1.73								2.64	0.95	0.81	0.00 ^c	1.08	1.00
91 of 98	Expected	3.00	1.00	1.00	2.00	2.00				1.00	1.00	1.00		3.00	1.00		2.00		
	Actual	2.69	1.22	0.98	0.87 ^a	1.89				1.00	0.97	0.94		2.87	0.93		0.00 ^c		
92 of 98	Expected		1.00	1.00	1.00	1.00			1.00	3.00	2.00	1.00		3.00	1.00	1.00	2.00		
	Actual		1.00	0.99	0.53 ^a	1.01			0.78	2.64	1.79	0.83		2.97	0.96	0.96	0.00 ^c		
93 of 98	Expected		1.00		1.00		1.00	1.00	1.00	5.00	2.00			3.00		2.00	1.00		
	Actual		1.00		0.57 ^a		1.18	1.32	0.99	4.81	1.99			2.78		1.80	0.00 ^c		
94 of 98	Expected	1.00	1.00				2.00	1.00		4.00	1.00			3.00		2.00		1.00	1.00
	Actual	0.90	0.97				2.00	1.22		3.56	0.81			2.85		1.67		1.00	0.86
95 of 98	Expected	1.00	1.00	1.00		2.00	1.00		1.00	4.00				2.00		1.00		1.00	2.00
	Actual	1.05	1.11	1.00		1.73	1.25		0.60 ^b	3.57				1.95		0.98		1.12	1.47 ^b
96 of 98	Expected	1.00	1.00	1.00		2.00	1.00	1.00	2.00	2.00	1.00			1.00		2.00		1.00	2.00
	Actual	0.95	0.85	0.93		1.58	1.06	0.95	1.11 ^b	1.78	1.03			1.00		1.57		1.01	1.250 ^b
97 of 98	Expected	2.00			1.00	1.00		1.00	3.00	1.00	1.00	2.00		1.00	1.00	2.00		1.00	1.00
	Actual	2.40			0.62 ^a	0.97		1.00	1.65 ^b	0.82	1.15	1.80		1.14	1.09	1.61		0.98	0.46 ^b
98 of 98	Expected	2.00		1.00	1.00	1.00			2.00	1.00	1.00	2.00			1.00	2.00		1.00	2.00
	Actual	2.00		1.03	0.53 ^a	0.94			1.71	1.16	0.84	1.61			1.15	1.64		0.89	0.74 ^b

^aCys was partially destroyed during hydrolysis

^bVal-Ile, Val-Val, Ile-Ile and/or Ile-Val bonds were only partially destroyed during hydrolysis

^cTrp was completely destroyed during hydrolysis

Date: 27 DEC 2006

Signature: Signature on File

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