

Peptide Array, Hepatitis C Virus, K3a/650, NS3 Protein

Catalog No. NR-4066

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Product Description: The 97-peptide array spans the NS3 protein of hepatitis C virus, K3a/650 (genotype 3a; GenPept: BAA06044). Peptides are 15- to 19-mers, with 11 or 12 amino acid overlaps.

Lot: N843-1 to N843-97

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 97	9/15/2006	18	1 APITAYAQQTRGLLGTV 18	1873.2	0.49	96.5%	89.2%
2 of 97	9/15/2006	18	7 AQQTRGLLGTVTSLTGR 24	1872.17	0.06	89.1%	84.6%
3 of 97	9/15/2006	17	14 LGTIVTSLTGRDKNVVA 30	1744.04	0.44	83.7%	83.6%
4 of 97	9/15/2006	17	20 SLTGRDKNVVAGEVQVL 36	1785.05	0.09	89.8%	83.9%
5 of 97	9/15/2006	18	26 KNVVAGEVQVLSTATQTF 43	1892.16	0.32	86.5%	89.2%
6 of 97	9/15/2006	16	33 VQVLSTATQTFLGTTV 48	1665.92	0.82	83.6%	88.0%
7 of 97	9/15/2006	18	38 TATQTFLGTTVGGVMWTV 55	1870.17	0.73	84.3%	89.1%
8 of 97	9/15/2006	18	45 GTTVGGVMWTVYHGAGSR 62	1836.07	0.08	82.0%	84.3%
9 of 97	9/15/2006	18	52 MWTVYHGAGSRTLAVGKH 69	1971.29	-0.15	93.3%	77.6%
10 of 97	9/15/2006	17	59 AGSRTLAVGKHPALQMY 75	1800.13	-0.07	95.0%	79.8%
11 of 97	9/15/2006	18	65 AGVKHPALQMYTNVDQDL 82	2000.28	-0.39	93.6%	85.4%
12 of 97	9/15/2006	16	72 LQMYTNVDQDLVWPA 87	1850.1	-0.17	94.1%	89.0%
13 of 97	9/15/2006	18	77 NVDQDLVWPAPPGAKSL 94	1864.1	-0.31	95.0%	89.1%
14 of 97	9/15/2006	19	84 GWPAPPGAKSLEPCTCGSA 102	1829.1	-0.21	86.3%	88.9%
15 of 97	9/15/2006	18	92 KSLEPCTCGSADLYLVTR 109	1956.28	0.04	90.0%	85.1%
16 of 97	9/15/2006	18	99 CGSADLYLVTRDADVIPA 116	1879.14	0.48	92.6%	89.2%
17 of 97	9/15/2006	19	106 LVTRDADVIPARRRGDSTA 124	2069.33	-0.56	94.8%	78.4%
18 of 97	9/15/2006	17	114 IPARRRGDSTASLLSPR 130	1853.13	-0.74	82.9%	76.5%
19 of 97	9/15/2006	17	120 GDSTASLLSPRPLARLK 136	1782.09	-0.25	95.2%	79.6%
20 of 97	9/15/2006	18	126 LLSRPLARLKGSSGGPV 143	1805.17	-0.01	93.8%	79.8%
21 of 97	9/15/2006	18	133 ARLKGSSGGPVMCPSGHV 150	1740.05	-0.02	87.9%	79.2%
22 of 97	9/15/2006	18	140 GGPVMCPSGHVAGIFRAA 157	1727.05	0.68	80.3%	83.5%
23 of 97	9/15/2006	18	147 SGHVAGIFRAAVCTRGVA 164	1772.08	0.82	81.3%	79.5%
24 of 97	9/15/2006	17	154 FRAAVCTRGVAKALQFI 170	1851.26	0.85	80.8%	80.2%
25 of 97	9/15/2006	16	160 TRGVAKALQFIPVETL 175	1743.1	0.51	89.6%	83.6%
26 of 97	9/15/2006	16	165 KALQFIPVETLSTQAR 180	1802.12	0	88.6%	84.1%
27 of 97	9/15/2006	15	170 IPVETLSTQARSPSF 184	1632.85	-0.09	84.2%	87.7%
28 of 97	9/15/2006	19	174 TLSTQARSPSFSDNSTPPA 192	1964.09	-0.83	89.8%	89.6%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
29 of 97	9/15/2006	18	182 PSFSDNSTPPAVPQSYQV 199	1921.07	-0.7	81.0%	89.4%
30 of 97	9/15/2006	16	189 TPPAVPQSYQVGYLHA 204	1727.95	-0.23	89.9%	88.3%
31 of 97	9/15/2006	17	194 PQSYQVGYLHAPTGSQK 210	1789.98	-0.8	84.7%	84.0%
32 of 97	9/15/2006	18	200 GYLHAPTGSQKSTKVPAA 217	1741.98	-0.35	93.7%	79.3%
33 of 97	9/15/2006	17	207 GSGKSTKVPAAVAQGY 223	1683.9	-0.31	91.5%	83.1%
34 of 97	9/15/2006	16	213 KVPAAYVAQGYNVLVL 228	1705.05	0.89	81.9%	88.2%
35 of 97	9/15/2006	17	218 YVAQGYNVLVLNPSVAA 234	1778.05	0.82	88.6%	88.6%
36 of 97	9/15/2006	18	224 NVLVLNPSVAATLGFSGF 241	1806.11	1.19	91.6%	88.8%
37 of 97	9/15/2006	18	231 SVAATLGFSGFMSRAYGI 248	1835.13	0.85	88.3%	89.0%
38 of 97	9/15/2006	16	238 FGSFMSRAYGIDPNIR 253	1831.1	-0.19	82.4%	84.3%
39 of 97	9/15/2006	17	243 SRAYGIDPNIRTNRTV 259	1890.1	-0.88	90.5%	80.6%
40 of 97	9/15/2006	17	249 DPNIRTNRTVTTGAKL 265	1814.05	-0.84	85.7%	79.9%
41 of 97	9/15/2006	18	255 GNRTVTTGAKLTYSTYQK 272	1918.15	-0.78	82.4%	80.8%
42 of 97	9/15/2006	18	262 GAKLTYSTYQKFLAGGGC 279	1794.08	0.11	80.3%	84.0%
43 of 97	9/15/2006	18	269 TYGKFLAGGGCSGGAYDV 286	1722.91	0.17	94.8%	88.3%
44 of 97	9/15/2006	18	276 GGGCSGGAYDVIIICDDCH 293	1741.91	0.26	86.3%	88.4%
45 of 97	9/15/2006	18	283 AYDVIIICDDCHAQDATSI 300	1953.15	0.26	81.0%	89.5%
46 of 97	9/15/2006	18	290 DDCHAQDATSILGIGTVL 307	1829.03	0.37	97.0%	88.9%
47 of 97	9/15/2006	17	297 ATSILGIGTVLDQAETA 313	1659.87	0.71	83.9%	87.9%
48 of 97	9/15/2006	18	303 IGTVLDQAETAGVRLTVL 320	1856.17	0.79	81.1%	89.1%
49 of 97	9/15/2006	18	310 AETAGVRLTVLATATPPG 327	1724.99	0.47	84.2%	88.3%
50 of 97	9/15/2006	17	317 LTVLATATPPGSITVPH 333	1674.97	0.71	81.7%	88.0%
51 of 97	9/15/2006	18	323 ATPPGSITVPHSNIEEVA 340	1819.02	-0.05	92.5%	88.9%
52 of 97	9/15/2006	18	330 TVPHSNIEEVALGSEGEI 347	1881.04	-0.13	80.2%	89.2%
53 of 97	9/15/2006	18	337 EEVALGSEGEIIPFYGKAI 354	1909.14	0.03	87.2%	89.3%
54 of 97	9/15/2006	17	344 EGEIIPFYGKAIPIACIK 360	1849.24	0.4	81.3%	84.4%
55 of 97	9/15/2006	18	350 YGKAIPIACIKGGRHLIF 367	1957.43	0.62	90.5%	77.4%
56 of 97	9/15/2006	17	357 ACIKGGRHLIFCHSKKK 373	1926.4	-0.34	95.1%	67.9%
57 of 97	9/15/2006	18	363 RHLIFCHSKKKCDKMASK 380	2160.68	-0.87	85.5%	67.8%
58 of 97	9/15/2006	17	370 SKKKCDKMASKLRGMGL 386	1881.37	-0.84	92.1%	70.2%
59 of 97	9/15/2006	18	376 KMASKLRGMGLNAVAYYR 393	2029.47	-0.19	82.1%	78.1%
60 of 97	9/15/2006	18	383 GMGLNAVAYYRGLDVSVI 400	1898.23	0.78	84.6%	89.3%
61 of 97	9/15/2006	18	390 AYYRGLDVSVIPTTGDVV 407	1925.19	0.46	95.9%	89.4%
62 of 97	9/15/2006	18	397 VSVIPTTGDVVVCATDAL 414	1760.05	1.31	90.5%	88.5%
63 of 97	9/15/2006	15	404 GDVVVCATDALMTGF 418	1498.75	1.2	82.7%	86.8%
64 of 97	9/15/2006	18	408 VCATDALMTGFTGDFDSV 425	1850.07	0.64	82.3%	89.0%
65 of 97	9/15/2006	18	415 MTGFTGDFDSVIDCNVAV 432	1891.12	0.66	85.9%	89.2%
66 of 97	9/15/2006	17	422 FDSVIDCNVAVEQYVDF 438	1963.17	0.48	Crude	89.6%
67 of 97	9/15/2006	17	428 CNVAVEQYVDFSLDPTF 444	1947.17	0.26	80.8%	89.5%
68 of 97	9/15/2006	19	433 EQYVDFSLDPTFSIETCTA 451	2166.36	-0.09	82.4%	90.5%
69 of 97	9/15/2006	18	441 DPTFSIETCTAPQDAVSR 458	1938.12	-0.43	82.5%	89.5%
70 of 97	9/15/2006	17	448 TCTAPQDAVSRQRGR 464	1889.1	-1.36	85.0%	76.8%
71 of 97	9/15/2006	17	454 DAVSRQRGRGRTGRGRL 470	1928.16	-1.63	80.9%	70.7%
72 of 97	9/15/2006	18	459 SQRGRGRTGRGRLGTYRYV 476	2139.43	-1.61	89.3%	72.8%
73 of 97	9/15/2006	16	466 GRGRLGTYRYVTPGER 481	1838.07	-1.29	90.8%	76.3%
74 of 97	9/15/2006	16	471 GTYRYVTPGERPSGMF 486	1818.06	-0.8	83.3%	84.2%
75 of 97	9/15/2006	16	476 VTPGERPSGMFDSVVL 491	1690.95	0.21	88.4%	88.1%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
76 of 97	9/15/2006	17	481 RPSGMFDSVVLCECYDA 497	1892.17	0.22	83.5%	89.2%
77 of 97	9/15/2006	18	487 DSVVLCECYDAGCSWYDL 504	2041.28	0.32	81.2%	90.0%
78 of 97	9/15/2006	18	494 CYDAGCSWYDLQPAETTV 511	2022.21	-0.28	89.3%	89.9%
79 of 97	9/15/2006	17	501 WYDLQPAETTVRLRAYL 517	2095.4	-0.4	90.1%	86.0%
80 of 97	9/15/2006	18	507 AETTVRLRAYLSTPGLPV 524	1944.28	0.17	82.6%	85.0%
81 of 97	9/15/2006	18	514 RAYLSTPGLPVCQDHLDL 531	1998.31	-0.05	84.2%	85.4%
82 of 97	9/15/2006	16	521 GLPVCQDHLDLWESVF 536	1858.12	0.26	88.1%	89.1%
83 of 97	9/15/2006	18	525 CQDHLDLWESVFTGLTHI 542	2114.38	0.08	84.0%	86.1%
84 of 97	9/15/2006	16	532 WESVFTGLTHIDAHFL 547	1873.11	0.42	85.9%	84.6%
85 of 97	9/15/2006	17	537 TGLTHIDAHFLSQTKQA 553	1868.1	-0.33	82.7%	80.4%
86 of 97	9/15/2006	18	543 DAHFLSQTKQAGLNFSYL 560	2040.28	-0.25	93.4%	85.6%
87 of 97	9/15/2006	18	550 TKQAGLNFSYLTAYQATV 567	1976.23	-0.02	98.2%	89.7%
88 of 97	9/15/2006	17	557 FSYLTAYQATVCARAQA 573	1864.13	0.35	85.0%	89.1%
89 of 97	9/15/2006	16	563 YQATVCARAQAPPPSW 578	1745.99	-0.38	88.1%	88.5%
90 of 97	9/15/2006	18	568 CARAQAPPSWDETWKCL 585	2059.37	-0.71	87.7%	85.8%
91 of 97	9/15/2006	18	575 PPSWDETWKCLVRLKPTL 592	2169.59	-0.56	82.4%	82.6%
92 of 97	9/15/2006	18	582 WKCLVRLKPTLHGPTPLL 599	2072.61	0.15	89.6%	78.4%
93 of 97	9/15/2006	17	589 KPTLHGPTPLLYRLGPV 605	1859.26	-0.12	86.0%	80.3%
94 of 97	9/15/2006	17	595 PTPLLYRLGPVQNEICL 611	1926.33	0.25	87.8%	89.4%
95 of 97	9/15/2006	18	601 RLGVPQNEICLTHPITKY 618	2082.47	-0.28	88.3%	82.0%
96 of 97	9/15/2006	18	608 EICLTHPITKYVMACMSA 625	2011.49	0.76	97.2%	85.5%
97 of 97	9/15/2006	17	615 ITKYVMACMSADLEVTT 631	1876.26	0.68	84.0%	89.2%

^a% full-length

^bRemainder is salt and water

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)
1 of 97	Expected	3.00	1.00			2.00	2.00		2.00	2.00				1.00		3.00		1.00	1.00
	Actual	3.00	0.99			1.67	1.88		1.19 ^a	1.94				1.04		2.62		1.04	0.80 ^a
2 of 97	Expected	1.00	2.00			2.00	3.00		1.00	3.00				1.00	4.00				1.00
	Actual	1.14	2.00			1.65	2.85		0.64 ^a	3.12				1.06	3.64				0.72 ^a
3 of 97	Expected	1.00	1.00	2.00			2.00		1.00	2.00	1.00			1.00	3.00				3.00
	Actual	0.93	1.21	2.10			2.00		0.50 ^a	2.03	0.96			1.00	2.64				1.35 ^a
4 of 97	Expected	1.00	1.00	2.00		2.00	2.00			2.00	1.00				1.00	1.00			4.00
	Actual	1.00	1.10	1.64		1.64	1.96			1.78	0.91			0.90	1.02				2.42 ^a
5 of 97	Expected	2.00		1.00		3.00	1.00			1.00	1.00		1.00	1.00	3.00				4.00
	Actual	2.00		0.96		2.91	1.12			0.97	0.99		0.97	1.02	2.69				2.30 ^a
6 of 97	Expected	1.00				2.00	1.00			2.00			1.00	1.00	5.00				3.00
	Actual	1.00				1.75	1.09			1.75			0.86	1.00	4.78				2.66
7 of 97	Expected	1.00				1.00	3.00			1.00		1.00	1.00		6.00	1.00			3.00
	Actual	1.00				0.85	2.94			1.11		1.01	0.94		5.67	0.00 ^b			2.73
8 of 97	Expected	1.00	1.00				5.00	1.00				1.00			1.00	3.00	1.00	1.00	3.00
	Actual	1.00	1.12				4.67	1.14				0.96			1.06	2.63	0.00 ^b	0.88	2.73

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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)
9 of 97	Expected	2.00	1.00				3.00	2.00		1.00	1.00	1.00			1.00	2.00	1.00	1.00	2.00
	Actual	1.88	0.97				2.92	2.29		0.97	1.04	0.92			1.00	1.84	0.00 ^b	1.14	1.70
10 of 97	Expected	3.00	1.00			1.00	2.00	1.00		2.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
	Actual	2.64	1.00			0.98	1.90	1.13		1.85	0.98	1.01		1.04	0.88	0.99		0.93	0.70
11 of 97	Expected	2.00		3.00		2.00	1.00	1.00		2.00	1.00	1.00		1.00		1.00		1.00	2.00
	Actual	1.77		2.66		1.86	0.94	1.05		1.90	0.77	0.97		1.09		1.00		0.88	1.69
12 of 97	Expected	1.00		3.00		2.00	1.00			2.00		1.00		1.00		1.00	1.00	1.00	2.00
	Actual	0.88		2.89		1.65	0.95			1.69		0.99		1.21		1.00	0.00 ^b	1.11	1.73
13 of 97	Expected	2.00		3.00		1.00	2.00			2.00	1.00			3.00	1.00		1.00		2.00
	Actual	2.00		2.86		0.98	2.15			2.11	0.94			2.94	1.00		0.00 ^b		1.97
14 of 97	Expected	3.00			2.00	1.00	3.00			1.00	1.00			4.00	2.00	1.00	1.00		
	Actual	2.88			0.91 ^c	1.01	3.20			1.24	1.00			3.87	2.01	0.64	0.00 ^b		
15 of 97	Expected	1.00	1.00	1.00	2.00	1.00	1.00			3.00	1.00			1.00	2.00	2.00		1.00	1.00
	Actual	1.02	1.04	0.85	0.99 ^c	0.75	1.02			2.66	0.80			1.00	1.75	1.69		1.04	0.94
16 of 97	Expected	3.00	1.00	3.00	1.00		1.00		1.00	2.00				1.00	1.00	1.00		1.00	2.00
	Actual	2.69	1.04	2.80	0.34 ^c		1.00		0.50 ^a	1.74				1.04	1.01	0.90		0.87	1.45 ^a
17 of 97	Expected	3.00	4.00	3.00			1.00		1.00	1.00				1.00	1.00	2.00			2.00
	Actual	3.00	3.96	2.72			1.24		0.55 ^a	1.09				1.17	1.10	2.00			1.60 ^a
18 of 97	Expected	2.00	4.00	1.00			1.00		1.00	2.00				2.00	3.00	1.00			
	Actual	2.00	3.79	0.89			1.05		0.83	1.88				2.06	2.83	0.93			
19 of 97	Expected	2.00	2.00	1.00			1.00			4.00	1.00			2.00	3.00	1.00			
	Actual	1.76	2.15	0.82			1.00			4.00	0.97			2.13	2.67	1.02			
20 of 97	Expected	1.00	2.00				3.00			4.00	1.00			3.00	3.00				1.00
	Actual	1.11	2.12				2.71			3.65	1.00			2.72	2.64				1.05
21 of 97	Expected	1.00	1.00		1.00		4.00	1.00		1.00	1.00	1.00		2.00	3.00				2.00
	Actual	1.00	1.12		0.58 ^c		3.77	0.96		1.14	0.98	1.18		2.13	2.82				1.94
22 of 97	Expected	3.00	1.00		1.00		4.00	1.00	1.00			1.00	1.00	2.00	1.00				2.00
	Actual	2.72	0.92		0.64 ^c		3.84	0.88	0.97			1.07	1.10	1.82	1.09				2.00
23 of 97	Expected	4.00	2.00		1.00		3.00	1.00	1.00				1.00		1.00	1.00			3.00
	Actual	3.65	1.91		0.55 ^c		3.02	1.08	0.89				1.00		0.99	0.76			2.65
24 of 97	Expected	4.00	2.00		1.00	1.00	1.00		1.00	1.00	1.00		2.00			1.00			2.00
	Actual	3.68	2.00		0.49 ^c	0.94	1.10		0.90	1.09	0.88		1.90			0.94			1.76
25 of 97	Expected	2.00	1.00			2.00	1.00		1.00	2.00	1.00		1.00	1.00		2.00			2.00
	Actual	2.00	1.14			1.72	1.11		0.90	1.73	0.84		0.84	1.09		1.60			1.83
26 of 97	Expected	2.00	1.00			3.00			1.00	2.00	1.00		1.00	1.00	1.00	2.00			1.00
	Actual	1.83	1.00			2.69			0.80	1.75	1.00		0.87	1.05	0.90	1.66			1.06
27 of 97	Expected	1.00	1.00			2.00			1.00	1.00			1.00	2.00	3.00	2.00			1.00
	Actual	1.19	1.14			2.00			0.94	1.06			0.98	2.00	3.00	1.86			1.10
28 of 97	Expected	2.00	1.00	2.00		1.00				1.00			1.00	3.00	5.00	3.00			
	Actual	2.16	1.29	1.97		0.92				1.16			1.11	3.00	4.68	2.69			
29 of 97	Expected	1.00		2.00		2.00							1.00	4.00	4.00	1.00		1.00	2.00
	Actual	1.18		1.68		1.72							1.04	3.69	3.65	1.04		1.20	2.00
30 of 97	Expected	2.00				2.00	1.00	1.00		1.00				3.00	1.00	1.00		2.00	2.00
	Actual	1.84				1.96	0.87	1.00		0.96				2.93	1.07	0.93		1.74	1.98
31 of 97	Expected	1.00				2.00	3.00	1.00		1.00	1.00			2.00	2.00	1.00		2.00	1.00
	Actual	0.96				1.98	2.78	1.12		1.03	0.96			2.00	1.76	0.88		1.89	1.13
32 of 97	Expected	3.00					3.00	1.00		1.00	2.00			2.00	2.00	2.00		1.00	1.00
	Actual	2.65					3.00	1.10		1.20	1.97			1.98	1.86	1.62		1.15	1.02

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)
33 of 97	Expected	3.00				1.00	3.00				2.00			1.00	2.00	1.00		2.00	2.00
	Actual	2.75				0.89	2.81				2.00			1.14	1.86	0.92		1.97	1.93
34 of 97	Expected	3.00		1.00		1.00	1.00			2.00	1.00			1.00				2.00	4.00
	Actual	2.74		0.97		1.00	1.14			1.80	1.00			1.16				1.88	3.41
35 of 97	Expected	3.00		2.00		1.00	1.00			2.00				1.00	1.00			2.00	4.00
	Actual	2.71		2.00		1.06	1.14			1.76				1.11	0.99			1.79	3.68
36 of 97	Expected	2.00		2.00			2.00			3.00			2.00	1.00	2.00	1.00			3.00
	Actual	2.00		1.97			1.86			2.88			1.87	1.18	1.95	0.93			2.84
37 of 97	Expected	3.00	1.00				3.00		1.00	1.00		1.00	2.00		3.00	1.00		1.00	1.00
	Actual	2.70	1.09				2.90		1.00	0.99		1.03	1.87		2.70	0.94		1.00	1.01
38 of 97	Expected	1.00	2.00	2.00			2.00		2.00			1.00	2.00	1.00	2.00			1.00	
	Actual	1.07	1.75	1.88			1.91		1.75			1.03	1.70	1.04	1.90			1.00	
39 of 97	Expected	1.00	3.00	3.00			2.00		2.00					1.00	1.00	2.00		1.00	1.00
	Actual	1.00	2.74	2.86			2.01		1.69					1.14	1.05	1.60		0.96	0.93
40 of 97	Expected	1.00	2.00	3.00			2.00		1.00	1.00	1.00			1.00		4.00			1.00
	Actual	0.99	1.78	2.76			2.08		0.95	1.00	1.15			1.14		3.61			0.96
41 of 97	Expected	1.00	1.00	1.00			3.00			1.00	2.00				1.00	5.00		2.00	1.00
	Actual	1.07	1.00	0.87			3.00			1.08	1.74				1.02	4.62		1.84	1.11
42 of 97	Expected	2.00			1.00		5.00			2.00	2.00		1.00		1.00	2.00		2.00	
	Actual	2.00			0.52 ^c		4.77			1.92	1.77		0.93		1.04	1.82		1.98	
43 of 97	Expected	2.00		1.00	1.00		6.00			1.00	1.00		1.00		1.00	1.00		2.00	1.00
	Actual	1.91		1.03	0.54 ^c		5.68			1.00	0.93		0.80		1.03	0.95		1.83	1.06
44 of 97	Expected	1.00		3.00	3.00		5.00	1.00	2.00						1.00			1.00	1.00
	Actual	1.09		3.00	1.39 ^c		4.69	1.00	0.80 ^a						0.99			1.05	0.55 ^a
45 of 97	Expected	3.00		4.00	2.00	1.00		1.00	3.00						1.00	1.00		1.00	1.00
	Actual	2.92		3.91	0.98 ^c	1.00		1.18	2.17 ^a						1.07	0.98		1.06	0.50 ^a
46 of 97	Expected	2.00		3.00	1.00	1.00	2.00	1.00	2.00	2.00					1.00	2.00			1.00
	Actual	2.00		2.74	0.54 ^c	0.94	1.99	1.14	1.91	1.94					1.07	1.74			1.00
47 of 97	Expected	3.00		1.00		2.00	2.00		2.00	2.00					1.00	3.00			1.00
	Actual	2.75		1.00		1.82	2.16		1.91	1.82					1.13	2.63			1.07
48 of 97	Expected	2.00	1.00	1.00		2.00	2.00		1.00	3.00						3.00			3.00
	Actual	2.00	0.83	1.00		1.73	1.88		1.17	2.82						2.69			2.96
49 of 97	Expected	4.00	1.00			1.00	2.00			2.00				2.00		4.00			2.00
	Actual	4.00	0.79			1.17	1.85			2.06				1.72		3.63			1.70
50 of 97	Expected	2.00					1.00	1.00	1.00	2.00				3.00	1.00	4.00			2.00
	Actual	1.70					1.00	1.19	0.98	1.74				2.93	1.05	3.71			1.99
51 of 97	Expected	2.00		1.00		2.00	1.00	1.00	2.00					3.00	2.00	2.00			2.00
	Actual	1.96		1.00		1.82	1.13	1.00	1.91					2.85	2.06	1.79			1.96
52 of 97	Expected	1.00		1.00		4.00	2.00	1.00	2.00	1.00				1.00	2.00	1.00			2.00
	Actual	1.00		1.01		3.65	1.87	1.14	1.75	1.00				1.08	1.83	0.82			1.88
53 of 97	Expected	2.00				4.00	3.00		2.00	1.00	1.00		1.00	1.00	1.00			1.00	1.00
	Actual	1.81				3.76	3.04		1.92	1.06	1.00		0.90	0.79	1.01			0.96	0.90
54 of 97	Expected	2.00			1.00	2.00	2.00		4.00		2.00		1.00	2.00				1.00	
	Actual	1.86			0.57 ^c	1.87	2.26		3.64		2.02		0.92	2.00				1.19	
55 of 97	Expected	2.00	1.00		1.00		3.00	1.00	4.00	1.00	2.00		1.00	1.00				1.00	
	Actual	2.00	1.12		0.50 ^c		3.15	0.99	3.86	0.92	2.06		0.73	0.90				1.09	
56 of 97	Expected	1.00	1.00		2.00		2.00	2.00	2.00	1.00	4.00		1.00		1.00				
	Actual	0.98	1.11		0.99 ^c		2.00	2.14	1.82	0.98	4.01		0.89		1.04				
57 of 97	Expected	1.00	1.00	1.00	2.00			2.00	1.00	1.00	5.00	1.00	1.00		2.00				
	Actual	1.00	0.87	0.97	0.83 ^c			1.97	0.71	0.80	4.62	1.02	0.84		1.89				

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)
58 of 97	Expected	1.00	1.00	1.00	1.00		2.00			2.00	5.00	2.00			2.00				
	Actual	1.00	1.18	0.84	0.47 ^c		2.14			1.79	4.69	2.00			1.94				
59 of 97	Expected	3.00	2.00	1.00			2.00			2.00	2.00	2.00			1.00			2.00	1.00
	Actual	2.70	2.00	1.00			2.01			1.95	1.76	2.06			0.88			1.86	0.94
60 of 97	Expected	2.00	1.00	2.00			3.00		1.00	2.00		1.00			1.00			2.00	3.00
	Actual	2.70	1.04	1.99			2.96		0.72 ^a	2.14		1.01			0.90			2.00	2.79 ^a
61 of 97	Expected	1.00	1.00	2.00			2.00		1.00	1.00				1.00	1.00	2.00		2.00	4.00
	Actual	1.00	1.01	1.99			1.78		0.57 ^a	1.03				1.09	0.95	1.81		1.79	2.35 ^a
62 of 97	Expected	2.00		2.00	1.00		1.00		1.00	1.00				1.00	1.00	3.00			5.00
	Actual	2.00		2.02	0.48 ^c		0.98		0.61 ^a	1.10				1.16	0.99	2.76			3.28 ^a
63 of 97	Expected	2.00		2.00	1.00		2.00			1.00		1.00	1.00			2.00			3.00
	Actual	2.27		2.18	0.49 ^c		1.91			1.12		0.96	1.00			1.93			1.35 ^a
64 of 97	Expected	2.00		3.00	1.00		2.00			1.00		1.00	2.00		1.00	3.00			2.00
	Actual	2.12		3.00	0.57 ^c		2.08			1.07		1.14	1.87		0.98	2.67			1.89
65 of 97	Expected	1.00		4.00	1.00		2.00		1.00			1.00	2.00		1.00	2.00			3.00
	Actual	1.00		3.88	0.48 ^c		1.93		0.61 ^a			1.08	1.86		1.05	1.62			2.68 ^a
66 of 97	Expected	1.00		4.00	1.00	2.00			1.00				2.00		1.00			1.00	4.00
	Actual	0.89		3.91	0.43 ^c	1.81			0.49 ^a				1.93		0.74			1.00	2.90 ^a
67 of 97	Expected	1.00		3.00	1.00	2.00				1.00			2.00	1.00	1.00	1.00		1.00	3.00
	Actual	1.00		2.94	0.49 ^c	1.91				1.04			1.75	1.08	1.04	0.92		0.99	2.70
68 of 97	Expected	1.00		2.00	1.00	3.00			1.00	1.00			2.00	1.00	2.00	3.00		1.00	1.00
	Actual	1.09		1.94	0.49 ^c	2.93			0.89	1.03			1.68	1.00	1.75	2.63		1.06	1.03
69 of 97	Expected	2.00	1.00	2.00	1.00	2.00			1.00				1.00	2.00	2.00	3.00			1.00
	Actual	2.00	1.04	1.82	0.59 ^c	1.79			1.04				0.96	2.04	1.66	2.70			1.02
70 of 97	Expected	2.00	4.00	1.00	1.00	2.00	1.00							1.00	2.00	2.00			1.00
	Actual	2.12	4.00	0.99	0.57 ^c	1.84	0.90							1.22	1.93	2.07			1.12
71 of 97	Expected	1.00	6.00	1.00		1.00	3.00			1.00					2.00	1.00			1.00
	Actual	1.00	5.80	0.85		0.89	2.81			1.00					1.87	1.11			1.04
72 of 97	Expected		6.00			1.00	4.00			1.00					1.00	2.00		2.00	1.00
	Actual		5.67			0.93	3.83			1.13					1.00	2.13		1.97	1.06
73 of 97	Expected		4.00			1.00	4.00			1.00				1.00		2.00		2.00	1.00
	Actual		3.73			0.95	3.65			1.03				1.14		1.96		1.76	1.00
74 of 97	Expected		2.00			1.00	3.00					1.00	1.00	2.00	1.00	2.00		2.00	1.00
	Actual		2.01			0.99	2.88					1.10	0.99	2.00	1.11	1.76		1.66	0.87
75 of 97	Expected		1.00	1.00		1.00	2.00			1.00		1.00	1.00	2.00	2.00	1.00			3.00
	Actual		1.21	0.94		0.89	2.18			0.90		1.18	1.03	2.00	2.09	0.90			1.53 ^a
76 of 97	Expected	1.00	1.00	2.00	2.00	1.00	1.00			1.00		1.00	1.00	1.00	2.00			1.00	2.00
	Actual	0.80	1.00	1.67	0.87 ^c	1.06	1.05			1.00		0.97	1.01	0.98	1.65			1.18	0.99 ^a
77 of 97	Expected	1.00		3.00	3.00	1.00	1.00			2.00					2.00		1.00	2.00	2.00
	Actual	1.00		2.85	1.61 ^c	0.97	1.06			2.00					1.80		0.00 ^b	2.63	1.02 ^a
78 of 97	Expected	2.00		2.00	2.00	2.00	1.00			1.00				1.00	1.00	2.00	1.00	2.00	1.00
	Actual	1.86		1.79	0.87 ^c	1.80	1.13			0.94				1.04	0.99	1.88	0.00 ^b	2.00	0.93
79 of 97	Expected	2.00	2.00	1.00		2.00				3.00				1.00		2.00	1.00	2.00	1.00
	Actual	1.82	2.00	0.85		2.02				2.78				1.09		1.69	0.00 ^b	2.15	0.73
80 of 97	Expected	2.00	2.00			1.00	1.00			3.00				2.00	1.00	3.00		1.00	2.00
	Actual	1.66	2.00			0.81	1.01			2.68				1.96	0.94	2.66		1.13	1.88
81 of 97	Expected	1.00	1.00	2.00	1.00	1.00	1.00	1.00		4.00				2.00	1.00	1.00		1.00	1.00
	Actual	1.00	1.02	1.84	0.51 ^c	0.98	0.95	1.00		3.60				1.94	0.98	0.96		0.96	1.00

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)
82 of 97	Expected			2.00	1.00	2.00	1.00	1.00		3.00			1.00	1.00	1.00		1.00		2.00
	Actual			2.00	0.52 ^c	1.98	0.98	1.04		2.85			0.71	1.10	1.01		0.00 ^b		1.70
83 of 97	Expected			2.00	1.00	2.00	1.00	2.00	1.00	3.00			1.00		1.00	2.00	1.00		1.00
	Actual			1.83	0.54 ^c	1.88	1.00	1.80	0.99	2.91			0.78		1.00	1.74	0.00 ^b		1.00
84 of 97	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	1.18		0.88		1.02	1.00	1.83	0.79	1.92			1.67		0.99	1.70	0.00 ^b		0.72
85 of 97	Expected	2.00		1.00		2.00	1.00	2.00	1.00	2.00	1.00		1.00		1.00	3.00			
	Actual	1.87		0.84		1.71	1.02	2.00	0.93	1.80	0.92		0.91		0.97	2.61			
86 of 97	Expected	2.00		2.00		2.00	1.00	1.00		3.00	1.00		2.00		2.00	1.00			1.00
	Actual	1.94		1.98		1.98	0.99	1.03		2.87	1.00		1.77		1.93	0.97			1.07
87 of 97	Expected	3.00		1.00		2.00	1.00			2.00	1.00		1.00		1.00	3.00			2.00
	Actual	2.74		1.00		2.08	0.95			1.94	0.98		0.95		1.01	2.62			1.89
88 of 97	Expected	5.00	1.00		1.00	2.00				1.00			1.00		1.00	2.00			2.00
	Actual	4.69	0.85		0.43 ^c	1.66				1.11			1.00		1.08	1.72			2.00
89 of 97	Expected	4.00	1.00		1.00	2.00								3.00	1.00	1.00	1.00	1.00	1.00
	Actual	3.63	1.06		0.52 ^c	2.00								3.13	1.04	0.69	0.00 ^b	1.04	1.02
90 of 97	Expected	3.00	1.00	1.00	2.00	2.00				1.00	1.00			3.00	1.00	1.00	2.00		
	Actual	2.88	1.11	1.00	0.88 ^c	2.12				1.05	0.94			2.95	1.05	0.96	0.00 ^b		
91 of 97	Expected		1.00	1.00	1.00	1.00				3.00	2.00			3.00	1.00	2.00	2.00		1.00
	Actual		0.94	1.02	0.47 ^c	1.01				2.90	1.94			3.00	0.96	1.73	0.00 ^b		0.99
92 of 97	Expected		1.00		1.00		1.00	1.00		5.00	2.00			3.00		2.00	1.00		1.00
	Actual		0.86		0.49 ^c		1.01	1.10		4.77	1.74			2.70		1.84	0.00 ^b		1.00
93 of 97	Expected		1.00				2.00	1.00		4.00	1.00			4.00		2.00			1.00
	Actual		0.95				2.05	1.01		3.68	0.97			3.92		1.73			0.97
94 of 97	Expected		1.00	1.00	1.00	2.00	1.00		1.00	4.00				3.00		1.00			1.00
	Actual		0.82	1.00	0.49 ^c	1.99	1.03		0.90	3.77				3.09		0.87			1.10
95 of 97	Expected		1.00	1.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00			2.00		2.00			1.00
	Actual		0.97	1.07	0.48 ^c	1.96	0.95	0.94	1.77	1.97	1.04			2.00		1.79			0.93
96 of 97	Expected	2.00			2.00	1.00		1.00	2.00	1.00	1.00	2.00		1.00	1.00	2.00			1.00
	Actual	1.90			0.92 ^c	1.00		1.00	1.81	1.05	0.98	1.95		1.06	0.93	1.75			0.86
97 of 97	Expected	2.00		1.00	1.00	1.00			1.00	1.00	1.00	2.00			1.00	3.00			1.00
	Actual	1.74		1.01	0.43 ^c	1.00			0.85	1.09	0.91	1.80			1.07	2.64			0.81

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

^bTrp was completely destroyed during hydrolysis.

^cCys was partially destroyed during hydrolysis.

Date: 24 JAN 2007

Signature: Signature on File

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