

Peptide Array, Influenza Virus A/New York/348/03 (H1N1) PA Protein

Catalog No. NR-2618

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Product Description: A 119-peptide array spanning the PA protein of the A/New York/348/03 (H1N1) strain of influenza virus (GenBank: ABA12736). Peptides are 16- to 17-mers, with 11 or 12 amino acid overlaps.

Lot: N136-1 to N136-119

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 119	2/28/2006	17	1 MEDFVRQCFNPMIVELA 17	2042.44	0.40	98.2%	90.0%
2 of 119	2/28/2006	17	6 RQCFNPMIVELAEKAMK 22	2008.47	-0.16	99.0%	81.5%
3 of 119	2/28/2006	17	12 MIVELAEKAMKEYGEDL 28	1969.32	-0.19	98.7%	85.2%
4 of 119	2/28/2006	17	18 EKAMKEYGEDLKIETNK 34	2026.31	-1.59	99.8%	78.1%
5 of 119	2/28/2006	17	24 YGEDLKIETNKFAAICT 40	1916.20	-0.19	88.4%	84.9%
6 of 119	2/28/2006	17	30 IETNKFAAICTHLEVCF 46	1939.30	0.72	96.9%	85.0%
7 of 119	2/28/2006	17	36 AAICTHLEVCFMYSDFH 52	1987.32	0.73	83.1%	85.3%
8 of 119	2/28/2006	17	42 LEVCFMYSDFHFINEQG 58	2079.36	0.12	95.8%	90.1%
9 of 119	2/28/2006	17	48 YSDFHFINEQGESIIVE 64	2027.19	-0.25	96.8%	89.9%
10 of 119	2/28/2006	17	54 INEQGESIIVEPEDPNA 70	1853.97	-0.76	82.5%	89.1%
11 of 119	2/28/2006	17	60 SIIVEPEDPNALLKHRF 76	1978.30	-0.25	97.5%	81.3%
12 of 119	2/28/2006	17	66 EDPNALLKHRFEIIEGR 82	2037.32	-0.85	98.1%	78.1%
13 of 119	2/28/2006	17	72 LKHRFEIIEGRDRTMAW 88	2158.53	-0.81	82.9%	75.9%
14 of 119	2/28/2006	17	78 IIEGRDRTMAWTVVNSI 94	1961.29	0.15	97.4%	85.2%
15 of 119	2/28/2006	17	84 RTMAWTVVNSICNTTGA 100	1825.11	0.26	80.1%	88.9%
16 of 119	2/28/2006	17	90 VVNSICNTTGAEKPKFL 106	1821.14	0.08	94.5%	84.2%
17 of 119	2/28/2006	17	96 NTTGAEKPKFLPDLYDY 112	1972.20	-1.01	86.6%	85.2%
18 of 119	2/28/2006	17	102 KPKFLPDLYDYKENRFI 118	2186.56	-1.08	97.3%	79.3%
19 of 119	2/28/2006	17	108 DLYDYKENRFIEIGVTR 124	2131.39	-0.84	87.2%	82.4%
20 of 119	2/28/2006	17	114 ENRFIEIGVTRREVIHY 130	2131.44	-0.49	95.1%	78.9%
21 of 119	2/28/2006	17	120 IGVTRREVIHYYLEKAN 136	2061.39	-0.43	98.8%	78.3%
22 of 119	2/28/2006	17	126 EVHIYYLEKANKIKSEK 142	2092.44	-1.02	95.3%	75.4%
23 of 119	2/28/2006	17	132 LEKANKIKSEKTHIHIF 148	2036.42	-0.71	93.4%	71.9%
24 of 119	2/28/2006	17	138 IKSEKTHIHIFSFTGEE 154	2003.26	-0.53	93.8%	77.9%
25 of 119	2/28/2006	17	144 HIHIFSFTGEEMATKAD 160	1934.17	-0.19	84.8%	80.9%
26 of 119	2/28/2006	17	150 FTGEEMATKADYTLDEE 166	1950.08	-0.98	96.8%	89.5%
27 of 119	2/28/2006	17	156 ATKADYTLDEESRARIK 172	1967.18	-1.21	97.8%	77.5%
28 of 119	2/28/2006	17	162 TLDEESRARIKTRLFTI 178	2049.38	-0.56	98.1%	78.2%
29 of 119	2/28/2006	17	168 RARIKTRLFTIRQEMAS 184	2077.50	-0.59	94.4%	75.2%
30 of 119	2/28/2006	17	174 RLFTIRQEMASRGLWDS 190	2066.39	-0.53	97.4%	81.9%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
31 of 119	2/28/2006	17	179 RQEMASRGLWDSFRQSE 195	2083.29	-1.44	92.8%	82.0%
32 of 119	2/28/2006	17	185 RGLWDSFRQSERGEETI 201	2066.23	-1.41	92.8%	81.9%
33 of 119	2/28/2006	17	191 FRQSERGEETIEERFEI 207	2155.33	-1.49	95.3%	82.5%
34 of 119	2/28/2006	17	197 GEETIEERFEITGLRR 213	2036.25	-1.08	81.2%	81.7%
35 of 119	2/28/2006	17	203 ERFEITGLRRLADQSL 219	2005.28	-0.56	89.0%	81.5%
36 of 119	2/28/2006	16	209 GLRRLADQSLPPNFS 224	1772.01	-0.59	92.8%	83.8%
37 of 119	2/28/2006	17	214 LADQSLPPNFSCIENFR 230	1951.20	-0.28	93.7%	89.5%
38 of 119	2/28/2006	17	220 PPNFSCIENFRAYVDGF 236	1976.21	-0.16	87.4%	89.7%
39 of 119	2/28/2006	17	226 IENFRAYVDGFEPNGYI 242	2004.20	-0.38	91.3%	89.8%
40 of 119	2/28/2006	17	232 YVDGFEPNGYIEGKLSQ 248	1916.09	-0.72	88.9%	89.4%
41 of 119	2/28/2006	17	238 PNGYIEGKLSQMSKEVN 254	1894.15	-0.95	90.7%	84.7%
42 of 119	2/28/2006	17	244 GKLSQMSKEVNARIEPF 260	1934.26	-0.64	96.2%	80.9%
43 of 119	2/28/2006	17	250 SKEVNARIEPFLKTTTPR 266	1986.32	-0.92	96.9%	77.7%
44 of 119	2/28/2006	17	256 RIEPFLKTTTPRIRLPN 272	2048.48	-0.75	97.3%	78.2%
45 of 119	2/28/2006	17	262 KTTTPRIRLPNGPPCFQ 278	1922.30	-0.95	90.7%	80.8%
46 of 119	2/28/2006	17	268 IRLPNGPPCFQRSKFLL 284	1986.43	-0.11	92.9%	81.3%
47 of 119	2/28/2006	17	274 PPCFQRSKFLLMDSLKL 290	2023.51	0.06	91.5%	81.6%
48 of 119	2/28/2006	17	280 SKFLLMDSLKLSIEDPN 296	1950.30	-0.08	99.3%	85.1%
49 of 119	2/28/2006	17	286 DSLKLSIEDPNHEGEGI 302	1852.99	-0.91	97.7%	84.4%
50 of 119	2/28/2006	17	292 IEDPNHEGEGIPLYDAI 308	1882.03	-0.61	99.5%	89.2%
51 of 119	2/28/2006	17	298 EGEGLYDAIKCMRTF 314	1943.29	-0.09	98.7%	85.0%
52 of 119	2/28/2006	17	304 LYDAIKCMRTFFGWKEP 320	2105.53	-0.24	93.1%	82.2%
53 of 119	2/28/2006	17	310 CMRTFFGWKEPTVVKPH 326	2063.49	-0.38	98.7%	78.4%
54 of 119	2/28/2006	17	316 GWKEPTVVKPHEKGINP 332	1916.23	-1.16	92.5%	77.1%
55 of 119	2/28/2006	17	322 VVKPHEKGINPNYLLSW 338	1994.34	-0.45	99.5%	81.4%
56 of 119	2/28/2006	17	328 KGINPNYLLSWKQVLEE 344	2031.36	-0.60	99.0%	85.6%
57 of 119	2/28/2006	17	334 YLLSWKQVLEELQDIES 350	2093.38	-0.28	98.1%	90.2%
58 of 119	2/28/2006	17	339 QVLEELQDIESEEKIP 355	2027.27	-1.02	88.4%	85.6%
59 of 119	2/28/2006	17	345 QDIESEEKIPRTKNMK 361	2059.39	-1.51	96.7%	78.3%
60 of 119	2/28/2006	17	351 EEKIPRTKNMKKTSQLK 367	2059.48	-1.86	93.2%	72.1%
61 of 119	2/28/2006	17	357 TKNMKKTSQLKVALGEN 373	1977.33	-1.28	100.0%	77.6%
62 of 119	2/28/2006	17	363 TSQLKVALGENMAPEKV 379	1902.22	-0.52	96.6%	84.8%
63 of 119	2/28/2006	17	369 ALGENMAPEKVFDDCK 385	1882.11	-0.71	98.8%	84.6%
64 of 119	2/28/2006	17	375 APEKVFDDCKGISDLK 391	1880.12	-0.73	98.5%	80.5%
65 of 119	2/28/2006	17	381 FDDCKGISDLKQYDSDE 397	1978.09	-1.29	97.4%	85.3%
66 of 119	2/28/2006	17	387 ISDLKQYDSDEPELRSF 403	2042.20	-1.16	99.8%	85.7%
67 of 119	2/28/2006	17	393 YDSDEPELRSFSSWIQN 409	2073.18	-1.26	96.3%	90.1%
68 of 119	2/28/2006	16	399 ELRSFSSWIQNEFNKA 414	1956.16	-0.84	99.6%	85.1%
69 of 119	2/28/2006	17	404 SSWIQNEFNKACELTDS 420	1972.13	-0.79	92.7%	89.6%
70 of 119	2/28/2006	17	410 EFNKACELTDSIWIELD 426	2026.27	-0.21	80.0%	89.9%
71 of 119	2/28/2006	17	416 ELTDSIWIELDEIGEDV 432	1976.14	-0.12	91.2%	89.7%
72 of 119	2/28/2006	17	422 WIELDEIGEDVAPIEHI 438	1978.20	0.04	93.9%	89.7%
73 of 119	2/28/2006	17	428 IGEDVAPIEHIASMRRN 444	1908.18	-0.34	90.3%	80.7%
74 of 119	2/28/2006	17	434 PIEHIASMRRNRYFTA 450	2034.34	-0.33	99.2%	81.7%
75 of 119	2/28/2006	17	440 SMRRNRYFTAESHCRAT 456	2029.30	-0.76	91.6%	78.1%
76 of 119	2/28/2006	17	446 FTAESHCRATEYIMKG 462	1943.25	-0.18	91.5%	81.0%
77 of 119	2/28/2006	17	452 HCRATEYIMKGVYINTA 468	1970.32	-0.11	99.4%	81.2%
78 of 119	2/28/2006	16	458 YIMKGVYINTALLNAS 473	1771.12	0.68	98.9%	88.6%
79 of 119	2/28/2006	17	463 VYINTALLNASCAAMDD 479	1785.04	0.65	86.8%	88.7%
80 of 119	2/28/2006	17	469 LLNASCAAMDDFQLIPM 485	1853.22	0.82	97.3%	89.1%
81 of 119	2/28/2006	17	475 AAMDDFQLIPMISKCRT 491	1940.35	0.21	100.0%	85.0%
82 of 119	2/28/2006	17	480 FQLIPMISKCRTKEGRR 496	2063.54	-0.69	95.3%	75.1%
83 of 119	2/28/2006	17	486 ISKCRKTEGRRKTNLYG 502	2010.37	-1.51	94.3%	71.6%
84 of 119	2/28/2006	17	492 KEGRRKTNLYGFIKGR 508	2036.43	-1.16	97.8%	71.9%
85 of 119	2/28/2006	17	498 TNLYGFIKGRSHLRND 514	2004.30	-0.64	90.6%	77.9%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
86 of 119	2/28/2006	17	504 IIKGRSHLRNDTDVVNF 520	1984.26	-0.47	99.6%	77.7%
87 of 119	2/28/2006	17	510 HLRNDTDVVNFVSMFEFS 526	2010.23	-0.21	94.1%	85.5%
88 of 119	2/28/2006	17	516 DVVNFVSMFEFLTDPR 532	1969.26	0.31	85.5%	89.6%
89 of 119	2/28/2006	17	522 SMEFLTDPRLEPHKWE 538	2102.37	-1.16	94.7%	82.2%
90 of 119	2/28/2006	17	528 TDPRLLEPHKWEKYCVLE 544	2143.47	-1.25	99.7%	79.0%
91 of 119	2/28/2006	17	534 PHKWEKYCVLEIGDM 550	2074.51	-0.07	98.6%	82.0%
92 of 119	2/28/2006	17	540 YCVLEIGDMLLRSAIG 556	1881.26	0.76	97.0%	89.2%
93 of 119	2/28/2006	17	546 GDMLLRSAIGQVSRPM 562	1878.26	0.28	93.2%	84.6%
94 of 119	2/28/2006	17	552 SAIGQVSRPMFLYVRTN 568	1939.28	0.09	97.7%	85.0%
95 of 119	2/28/2006	17	558 SRPMFLYVRTNGTSKIK 574	1998.40	-0.55	98.8%	77.8%
96 of 119	2/28/2006	17	564 YVRTNGTSKIKMKWGME 580	2029.43	-0.94	85.5%	78.1%
97 of 119	2/28/2006	17	570 TSKIKMKWGMEMRRC 586	2111.71	-0.39	97.2%	75.5%
98 of 119	2/28/2006	17	576 KWGMEMRRCLLQSLQ 592	2120.61	-0.40	97.6%	82.3%
99 of 119	2/28/2006	17	582 RRCLLQSLQIESMIEA 598	2018.40	-0.09	89.4%	85.5%
100 of 119	2/28/2006	17	588 SLQIESMIEAESSVKE 604	1908.13	-0.44	97.2%	89.3%
101 of 119	2/28/2006	17	594 SMIEAESSVKEKDMTKE 610	1942.21	-1.06	85.7%	81.0%
102 of 119	2/28/2006	17	600 SSVKEKDMTKEFFENRS 616	2062.30	-1.48	98.0%	78.4%
103 of 119	2/28/2006	17	606 DMTKEFFENRSETWPIG 622	2087.31	-1.12	81.0%	85.9%
104 of 119	2/28/2006	17	612 FENRSETWPIGESPKGV 628	1933.12	-1.06	81.4%	85.0%
105 of 119	2/28/2006	17	618 TWPIGESPKGVVEEGSIG 634	1742.92	-0.54	81.4%	88.4%
106 of 119	2/28/2006	17	624 SPKGVVEEGSIGKVCRTL 640	1760.06	-0.31	88.9%	79.4%
107 of 119	2/28/2006	17	630 EGSIGKVCRTLLAKSVF 646	1808.19	0.51	88.3%	79.9%
108 of 119	2/28/2006	17	636 VCRTLLAKSVFNSLYAS 652	1872.23	0.73	89.8%	84.6%
109 of 119	2/28/2006	17	642 AKSVFNSLYASPQLEGF 658	1858.10	0.05	92.5%	89.1%
110 of 119	2/28/2006	17	648 SLYASPQLEGFSAESRK 664	1870.07	-0.67	90.9%	84.5%
111 of 119	2/28/2006	17	653 PQLEGFSAESRKLLLIV 669	1900.27	0.35	96.5%	84.8%
112 of 119	2/28/2006	17	659 SAESRKLLLIVQALRDN 675	1926.26	-0.06	96.9%	80.9%
113 of 119	2/28/2006	17	665 LLLIVQALRDNLEPGTF 681	1912.28	0.65	86.6%	89.4%
114 of 119	2/28/2006	17	671 ALRDNLEPGTFDLGG 687	1851.06	-0.21	88.6%	89.0%
115 of 119	2/28/2006	16	677 EPGTFDLGGLYEAIIE 692	1739.87	-0.35	80.4%	88.4%
116 of 119	2/28/2006	17	682 DLGGLYEAIIECLINDP 698	1864.07	0.00	83.5%	89.1%
117 of 119	2/28/2006	17	688 EAIEECLINDPWVLLNA 704	1942.24	0.42	83.6%	89.5%
118 of 119	2/28/2006	17	694 LINDPWVLLNASWFNSF 710	2036.34	0.50	83.4%	89.9%
119 of 119	2/28/2006	17	700 VLLNASWFNSFLTHALR 716	1989.33	0.63	88.2%	85.3%

^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)
31 of 119	Expected	1.00	3.00	1.00		4.00	1.00			1.00		1.00	1.00		3.00		1.00		
	Actual	1.05	3.00	0.99		3.95	1.00			1.07		1.04	1.05		2.58		0.00 ^c		
32 of 119	Expected		3.00	1.00		4.00	2.00		1.00	1.00			1.00		2.00	1.00	1.00		
	Actual		3.00	1.00		4.03	1.91		0.96	1.01			1.06		1.92	0.89	0.00 ^c		
33 of 119	Expected		3.00			7.00	1.00		2.00				2.00		1.00	1.00			
	Actual		3.05			6.84	0.97		2.02				2.00		0.90	0.96			
34 of 119	Expected		3.00			5.00	2.00		2.00	1.00			1.00			3.00			
	Actual		2.87			4.96	1.95		2.00	0.99			1.06			2.79			
35 of 119	Expected	1.00	3.00	1.00		3.00	1.00		1.00	3.00			1.00		1.00	2.00			
	Actual	1.02	2.99	1.03		2.96	0.90		1.01	2.93			1.00		0.95	1.99			
36 of 119	Expected	1.00	2.00	2.00		1.00	1.00			3.00			1.00	2.00	2.00	1.00			
	Actual	1.00	2.00	2.01		1.04	0.96			2.92			1.02	1.97	1.86	1.00			
37 of 119	Expected	1.00	1.00	3.00	1.00	2.00			1.00	2.00			2.00	2.00	2.00				
	Actual	1.00	1.03	2.96	0.42 ^a	1.91			0.94	1.95			2.05	2.04	1.81				
38 of 119	Expected	1.00	1.00	3.00	1.00	1.00	1.00		1.00				3.00	2.00	1.00			1.00	1.00
	Actual	0.97	1.09	2.97	0.50 ^a	0.93	0.95		0.89				3.00	2.07	0.98			1.01	0.89
39 of 119	Expected	1.00	1.00	3.00		2.00	2.00		2.00				2.00	1.00				2.00	1.00
	Actual	1.04	1.19	2.87		2.04	2.06		2.00				1.91	1.08				1.97	1.00
40 of 119	Expected			2.00		3.00	3.00		1.00	1.00	1.00		1.00	1.00	1.00			2.00	1.00
	Actual			1.94		2.93	2.96		0.98	1.00	1.12		1.02	1.00	0.96			1.90	0.90
41 of 119	Expected			2.00		3.00	2.00		1.00	1.00	2.00	1.00		1.00	2.00			1.00	1.00
	Actual			2.00		3.00	1.97		0.88	1.02	1.81	0.91		1.02	2.03			0.92	1.02
42 of 119	Expected	1.00	1.00	1.00		3.00	1.00		1.00	1.00	2.00	1.00	1.00	1.00	2.00				1.00
	Actual	1.00	1.08	0.99		2.82	1.01		0.90	0.82	1.82	0.84	1.00	1.07	1.83				0.96
43 of 119	Expected	1.00	2.00	1.00		2.00			1.00	1.00	2.00		1.00	2.00	1.00	2.00			1.00
	Actual	1.03	2.05	0.96		1.90			0.95	1.04	2.00		1.10	2.16	1.05	2.00			1.08
44 of 119	Expected		3.00	1.00		1.00			2.00	2.00	1.00		1.00	4.00		2.00			
	Actual		3.02	1.02		0.95			1.81	2.00	0.92		1.13	3.90		2.20			
45 of 119	Expected		2.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	5.00		2.00			
	Actual		1.92	0.98	0.53 ^a	1.07	1.16		0.94	0.97	0.95		1.00	5.02		1.93			
46 of 119	Expected		2.00	1.00	1.00	1.00	1.00		1.00	3.00	1.00		2.00	3.00	1.00				
	Actual		2.01	0.96	0.46 ^a	0.96	1.03		0.94	3.09	0.90		2.00	3.04	0.94				
47 of 119	Expected		1.00	1.00	1.00	1.00				4.00	2.00	1.00	2.00	2.00	2.00				
	Actual		1.02	1.00	0.44 ^a	0.95				3.93	2.06	0.96	2.00	1.97	1.97				
48 of 119	Expected			3.00		1.00			1.00	4.00	2.00	1.00	1.00	1.00	3.00				
	Actual			2.88		1.08			0.95	4.00	1.82	0.89	1.10	1.01	2.01				
49 of 119	Expected			3.00		3.00	2.00	1.00	2.00	2.00	1.00			1.00	2.00				
	Actual			2.96		2.95	2.01	1.00	1.97	2.08	0.98			0.99	2.07				
50 of 119	Expected	1.00				3.00	2.00	1.00	3.00	1.00									1.00
	Actual	0.99				2.89		2.92	2.03	1.01	2.85	1.00			2.09				1.11
51 of 119	Expected	1.00	1.00	1.00	1.00	2.00	2.00		2.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00
	Actual	0.99	1.07	0.93	0.52 ^a	2.02	2.03		1.88	0.95	0.99	0.96	0.97	0.93		1.01			1.00
52 of 119	Expected	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	2.00	1.00	2.00	1.00		1.00	1.00	1.00	
	Actual	1.04	1.05	0.96	0.51 ^a	1.03	1.00		0.90	0.99	2.04	0.96	2.00	1.06		0.99	0.00 ^c	1.08	
53 of 119	Expected				1.00	1.00	1.00	1.00			2.00	1.00	2.00	2.00		2.00	1.00		2.00
	Actual		1.01		0.54 ^a	0.99	0.95	0.99			1.91	1.00	2.00	2.03		2.00	0.00 ^c		1.33 ^b
54 of 119	Expected			1.00		2.00	2.00	1.00	1.00		3.00			3.00		1.00	1.00		2.00
	Actual			0.97		1.92	1.90	1.06	1.06		3.13			3.00		0.86	0.00 ^c		1.44 ^b
55 of 119	Expected			2.00		1.00	1.00	1.00	1.00	2.00	2.00			2.00	1.00		1.00	1.00	2.00
	Actual			1.87		1.00	1.11	0.91	1.00	1.91	1.85			1.95	0.95		0.00 ^c	1.07	0.80 ^b
56 of 119	Expected		2.00			3.00	1.00		1.00	3.00	2.00			1.00	1.00		1.00	1.00	1.00
	Actual			1.91		3.00	0.97		1.00	2.90	2.12			1.02	0.95		0.00 ^c	1.00	1.03
57 of 119	Expected			1.00		5.00			1.00	4.00	1.00				2.00		1.00	1.00	1.00
	Actual			0.99		4.91			0.97	4.00	0.99				1.95		0.00 ^c	1.03	0.98
58 of 119	Expected			1.00		7.00			2.00	2.00	2.00			1.00	1.00				1.00
	Actual			0.98		6.74			1.87	1.88	2.00			1.03	0.95				0.88
59 of 119	Expected		1.00	2.00		4.00			2.00	1.00	3.00	1.00		1.00	1.00	1.00			
	Actual		1.00	1.99		3.97			1.88	0.97	2.83	1.00		1.04	0.95	0.83			
60 of 119	Expected		1.00	1.00		3.00			1.00	1.00	5.00	1.00		1.00	1.00	2.00			
	Actual		1.14	0.95		2.88			0.95	0.99	4.99	0.96		1.00	0.84	1.75			

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)
91 of 119	Expected			1.00	1.00	2.00	1.00	1.00	1.00	3.00	2.00	1.00		1.00			1.00	1.00	1.00
	Actual			1.10	0.20 ^a	2.17	1.03	0.98	0.95	3.00	2.03	0.92		1.17			0.00 ^c	1.07	1.00
92 of 119	Expected	1.00	1.00	1.00	1.00	2.00	2.00		2.00	3.00		1.00			1.00			1.00	1.00
	Actual	1.00	0.92	0.99	0.31 ^a	2.00	2.00		1.89	3.04		1.00			0.99			1.02	0.97
93 of 119	Expected	1.00	2.00	1.00		1.00	2.00		1.00	2.00		2.00	1.00	1.00	2.00				1.00
	Actual	1.06	1.81	1.01		0.97	2.00		1.04	1.89		1.84	1.00	1.10	1.95				0.98
94 of 119	Expected	1.00	2.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	1.00	2.00	1.00		1.00	2.00
	Actual	1.00	2.06	1.10		1.04	0.99		1.08	1.07		0.96	1.00	1.01	2.10	0.99		1.00	1.99
95 of 119	Expected			2.00	1.00			1.00	1.00	1.00	2.00	1.00	1.00	1.00	2.00	2.00		1.00	1.00
	Actual			2.00	0.90			0.99	0.83	0.97	1.81	1.01	1.04	1.01	2.04	1.88		0.96	1.00
96 of 119	Expected		1.00	1.00		1.00	2.00		1.00		3.00	2.00			1.00	2.00	1.00	1.00	1.00
	Actual		1.00	1.03		1.02	2.05		0.91		2.94	1.89			0.96	1.83	0.00 ^c	0.91	0.89
97 of 119	Expected		2.00		1.00	1.00	1.00		1.00	2.00	3.00	3.00			1.00	1.00	1.00		
	Actual		2.19		0.61 ^a	1.09	1.14		0.99	2.00	2.96	3.00			1.03	0.99	0.00 ^c		
98 of 119	Expected		2.00		1.00	4.00	1.00		1.00	3.00	1.00	2.00			1.00		1.00		
	Actual		2.04		0.73 ^a	4.01	1.10		1.02	2.99	0.96	2.00			1.07		0.00 ^c		
99 of 119	Expected	1.00	2.00		1.00	5.00			2.00	3.00		1.00			2.00				
	Actual	1.14	2.09		0.49 ^b	4.95			1.94	2.84		1.00			1.95				
100 of 119	Expected	1.00				6.00			2.00	1.00	1.00	1.00			4.00				1.00
	Actual	1.01				5.71			2.00	1.00	1.08	1.05			3.84				0.97
101 of 119	Expected	1.00		1.00		4.00			1.00		3.00	2.00			3.00	1.00		1.00	1.00
	Actual	1.01		1.00		3.91			1.00		2.93	2.01			2.83	1.03			0.96
102 of 119	Expected		1.00	2.00		3.00					3.00	1.00	2.00		3.00	1.00			1.00
	Actual		1.00	1.98		2.90					2.86	0.90	2.10		2.87	0.98			1.04
103 of 119	Expected	1.00	2.00		3.00	1.00			1.00	1.00	1.00	1.00	2.00	1.00	2.00	2.00	1.00		
	Actual	1.07	1.98		2.97	0.97			1.05	1.07	1.00	1.99	1.07	0.99	1.87	0.00 ^c			
104 of 119	Expected	1.00	1.00			3.00	2.00		1.00		1.00		1.00	2.00	2.00	1.00	1.00		1.00
	Actual	1.00	1.00			3.04	1.94		0.98		0.97		1.00	1.93	1.74	0.90	0.00 ^c		0.99
105 of 119	Expected					3.00	4.00		2.00		1.00			2.00	2.00	1.00	1.00		1.00
	Actual					2.98	4.16		1.96		1.04			2.14	1.93	1.07	0.00 ^c		1.00
106 of 119	Expected		1.00		1.00	2.00	3.00		1.00	1.00	2.00			1.00	2.00	1.00			2.00
	Actual		1.06		0.46 ^a	1.80	3.10		1.03	1.07	2.13			1.00	1.80	1.01			1.90
107 of 119	Expected	1.00	1.00		1.00	1.00	2.00		1.00	2.00	2.00		1.00		2.00	1.00			2.00
	Actual	1.00	1.12		0.55 ^a	1.01	2.09		0.99	2.14	1.91		1.04		1.90	1.03			1.88
108 of 119	Expected	2.00	1.00	1.00	1.00					3.00	1.00		1.00		3.00	1.00		1.00	2.00
	Actual	1.89	1.06	1.01	0.54 ^a					3.00	0.95		1.02		2.95	0.95		0.98	1.98
109 of 119	Expected	2.00		1.00		2.00	1.00			2.00	1.00		2.00	1.00	3.00			1.00	1.00
	Actual	2.00		0.94		2.05	0.99			1.99	0.90		2.18	0.90	3.02			1.12	0.99
110 of 119	Expected	2.00	1.00			3.00	1.00			2.00	1.00		1.00	1.00	4.00			1.00	
	Actual	2.06	1.08			3.05	0.95			2.02	1.00		1.07	1.08	3.87			1.08	
111 of 119	Expected	1.00	1.00			3.00	1.00		1.00	4.00	1.00		1.00	1.00	2.00				1.00
	Actual	1.00	1.06			3.02	1.00		0.47 ^b	3.76	0.94		1.04	0.97	2.02				0.55 ^b
112 of 119	Expected	2.00	2.00	2.00		2.00			1.00	4.00	1.00				2.00				1.00
	Actual	2.00	2.00	1.97		2.01			0.51 ^b	3.74	0.95				2.10				0.48 ^b
113 of 119	Expected	1.00	1.00	2.00		2.00	1.00		1.00	5.00			1.00	1.00		1.00			1.00
	Actual	0.97	0.99	2.11		1.96	0.95		0.40 ^b	3.52			1.00	1.03		0.85			0.49 ^b
114 of 119	Expected	1.00	1.00	3.00		1.00	3.00			4.00			1.00	1.00		1.00		1.00	
	Actual	1.00	1.09	2.90		0.96	3.05			3.94			1.03	1.07		1.00		1.05	
115 of 119	Expected	1.00		1.00		4.00	3.00		1.00	2.00			1.00	1.00		1.00		1.00	
	Actual	0.93		1.00		3.86	3.04		0.87	2.10			1.12	1.00		0.87		1.08	
116 of 119	Expected	1.00		3.00	1.00	3.00	2.00		2.00	3.00				1.00				1.00	
	Actual	1.07		2.93	0.80 ^a	2.82	2.00		1.88	3.00				1.03				1.05	
117 of 119	Expected	2.00		3.00	1.00	3.00			2.00	3.00				1.00			1.00		1.00
	Actual	2.05		3.00	0.56 ^a	2.95			1.95	3.00				1.01			0.00 ^c		0.96
118 of 119	Expected	1.00		4.00					1.00	3.00			2.00	1.00	2.00		2.00		1.00
	Actual	1.03		3.88					0.88	2.82			1.94	1.00	1.99		0.00 ^c		0.87
119 of 119	Expected	2.00	1.00	2.00				1.00		4.00			2.00		2.00	1.00	1.00		1.00
	Actual	2.15	1.08	1.90				1.00		3.96			2.02		1.97	0.85	0.00 ^c		0.83

^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: 07 APR 2008

Signature: Signature on File

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