

## Peptide Array, Sin Nombre Virus, NM H10, Glycoprotein Precursor (GPC)

### Catalog No. NR-4764

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**Product Description:** The 199-peptide array spans the GPC protein of Sin Nombre virus, NM H10 (GenPept: NP\_941974). Peptides are 13- to 18-mers, with 11 to 14 amino acid overlaps.

### Lot: R502-1 to R502-199

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 <sup>a</sup>	Peptide Content <sup>b</sup>
1 of 199	5/3/2007	17	1-MVGWVCIFLVVLTATA-17	1824.30	2.14	92.2%	88.9%
2 of 199	5/3/2007	17	7-IFLVVLTATAGLTRNL-23	1803.20	1.37	Unknown <sup>c</sup>	88.8%
3 of 199	5/3/2007	17	13-TTATAGLTRNLYELKIE-29	1894.20	-0.23	88.7%	84.7%
4 of 199	5/3/2007	17	19-LTRNLYELKIECPHTVG-35	1986.33	-0.25	82.7%	81.3%
5 of 199	5/3/2007	17	24-YELKIECPHTVGLGQGY-40	1907.18	-0.29	86.9%	84.8%
6 of 199	5/3/2007	17	30-CPHTVGLGQGYVTGSVE-46	1703.88	0.12	84.2%	88.2%
7 of 199	5/3/2007	17	36-LGQGYVTGSVEITPILL-52	1760.06	0.91	80.1%	88.5%
8 of 199	5/3/2007	17	42-TGSVEITPILLTQVADL-58	1770.07	0.89	86.8%	88.6%
9 of 199	5/3/2007	14	48-TPILLTQVADLKIE-61	1553.88	0.64	94.2%	87.2%
10 of 199	5/3/2007	17	51-LLTQVADLKIESSCNFD-67	1896.16	0.21	87.7%	89.3%
11 of 199	5/3/2007	17	57-DLKIESSCNFDLHVPAT-73	1889.13	-0.09	91.8%	84.7%
12 of 199	5/3/2007	17	63-SCNFDLHVPATTTQKYN-79	1939.15	-0.69	92.0%	85.0%
13 of 199	5/3/2007	17	69-HVPATTTQKYNQVDWTK-85	2017.26	-1.26	98.8%	81.6%
14 of 199	5/3/2007	17	75-TQKYNQVDWTKKSSTTE-91	2044.24	-1.86	92.4%	81.8%
15 of 199	5/3/2007	17	81-YDWTKKSSTTESTNAGA-97	1782.93	-1.00	91.6%	83.9%
16 of 199	5/3/2007	17	87-SSTTESTNAGATTFEAK-103	1702.81	-0.74	95.6%	88.2%
17 of 199	5/3/2007	17	93-TNAGATTFEAKTKEINL-109	1809.06	-0.50	84.1%	84.1%
18 of 199	5/3/2007	17	99-TFEAKTKEINLKGTCNI-115	1910.25	-0.49	99.4%	80.7%
19 of 199	5/3/2007	17	105-KEINLKGTCNIPPTTFE-121	1905.22	-0.55	85.0%	84.8%
20 of 199	5/3/2007	17	111-GTCNIPPTTFEAYKSR-127	1856.13	-0.58	86.6%	84.4%
21 of 199	5/3/2007	17	117-PTTFEAYKSRKTVICY-133	1978.35	-0.31	91.0%	81.3%
22 of 199	5/3/2007	17	123-AYKSRKTVICYDLACNQ-139	1976.33	-0.34	88.2%	81.3%
23 of 199	5/3/2007	17	129-TVICYDLACNQTHCLPT-145	1895.21	0.41	85.6%	89.3%
24 of 199	5/3/2007	16	135-LACNQTHCLPTVHLIA-150	1734.08	0.77	93.6%	83.5%
25 of 199	5/3/2007	17	140-THCLPTVHLIAPVQTCM-156	1864.29	0.82	92.4%	84.5%
26 of 199	5/3/2007	17	146-VHLIAPVQTCMSVRSCM-162	1875.33	0.96	97.1%	84.6%
27 of 199	5/3/2007	15	152-VQTCMSVRSCMIGLL-166	1641.06	1.24	84.9%	87.8%
28 of 199	5/3/2007	17	156-MSVRSCMIGLLSSRIQV-172	1880.32	0.89	85.8%	84.6%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
29 of 199	5/3/2007	17	162-MIGLLSSRIQVIYEKTY-178	2014.43	0.38	84.0%	85.5%
30 of 199	5/3/2007	17	168-SRIQVIYEKTYCVTGQL-184	2001.34	-0.02	89.7%	85.4%
31 of 199	5/3/2007	17	174-YEKTYCVTGQLIEGLCF-190	1967.30	0.29	95.4%	89.6%
32 of 199	5/3/2007	17	180-VTGQLIEGLCFIPTHTI-196	1842.19	0.94	92.9%	89.0%
33 of 199	5/3/2007	16	185-IEGLCFIPTHTIALTQ-200	1757.10	0.87	92.9%	88.5%
34 of 199	5/3/2007	17	190-FIPTHTIALTQPGHTYD-206	1912.16	-0.22	86.0%	84.8%
35 of 199	5/3/2007	17	196-IALTQPGHTYDTMTLPV-212	1858.17	0.12	100.0%	89.1%
36 of 199	5/3/2007	17	202-GHTYDTMTLPVTCFLVA-218	1869.21	0.72	97.1%	89.1%
37 of 199	5/3/2007	17	208-MTLPVTCFLVAKKLGTTQ-224	1850.34	0.79	87.8%	84.4%
38 of 199	5/3/2007	17	214-CFLVAKKLGTTQLKLAVE-230	1861.35	0.75	96.7%	80.3%
39 of 199	5/3/2007	17	220-KLGTQLKLAVELEKLIT-236	1897.36	0.32	89.1%	80.6%
40 of 199	5/3/2007	17	226-KLAVELEKLITGVSCTE-242	1833.20	0.45	89.1%	84.3%
41 of 199	5/3/2007	17	231-LEKLITGVSCTENSFQG-247	1826.06	-0.01	86.1%	88.9%
42 of 199	5/3/2007	17	237-GVSCTENSFQGYICFI-253	1931.17	0.45	91.9%	89.4%
43 of 199	5/3/2007	16	243-NSFQGYICFIGKHSE-258	1893.11	-0.34	89.4%	84.7%
44 of 199	5/3/2007	17	248-YYICFIGKHSEPLFVPT-264	2014.39	0.40	92.3%	85.5%
45 of 199	5/3/2007	16	254-GKHSEPLFVPTMEDYR-269	1906.17	-0.99	97.4%	80.7%
46 of 199	5/3/2007	17	259-PLFVPTMEDYRSAELFT-275	2016.34	-0.04	92.6%	89.8%
47 of 199	5/3/2007	16	265-MEDYRSAELFTRMVLN-280	1975.30	-0.35	88.1%	85.2%
48 of 199	5/3/2007	17	270-SAELFTRMVLNPRGEDH-286	1972.23	-0.67	84.0%	81.2%
49 of 199	5/3/2007	17	276-RMVLNPRGEDHDPDQNG-292	1950.07	-1.81	98.8%	81.0%
50 of 199	5/3/2007	17	282-RGEDHDPDQNGQGLMRI-298	1938.06	-1.72	95.4%	81.0%
51 of 199	5/3/2007	17	288-PDQNGQGLMRIAGPVA-304	1724.97	-0.33	94.6%	88.3%
52 of 199	5/3/2007	17	294-GLMRIAGPVTAKVPSTE-310	1727.09	0.24	92.7%	83.5%
53 of 199	5/3/2007	17	300-GPVTAKVPSTETTETMQ-316	1777.02	-0.60	82.5%	88.6%
54 of 199	5/3/2007	17	306-VPSTETTETMQGIAFAG-322	1739.96	0.03	87.2%	88.4%
55 of 199	5/3/2007	15	312-TETMQGIAFAGAPMY-326	1587.88	0.29	87.4%	87.4%
56 of 199	5/3/2007	17	315-MQGIAFAGAPMYSSFST-331	1766.07	0.53	89.3%	88.6%
57 of 199	5/3/2007	17	321-AGAPMYSSFSTLVRKAD-337	1801.10	-0.01	91.7%	84.0%
58 of 199	5/3/2007	16	327-SSFSTLVRKADPEYVF-342	1846.10	-0.11	94.5%	84.4%
59 of 199	5/3/2007	17	332-LVRKADPEYVFSPGIIA-348	1875.23	0.38	91.0%	84.6%
60 of 199	5/3/2007	17	338-PEYVFSPGIIAESNHSV-354	1846.04	0.06	91.8%	89.0%
61 of 199	5/3/2007	17	344-PGIIAESNHSVCDKKT-360	1798.06	-0.24	93.5%	79.8%
62 of 199	5/3/2007	17	350-SNHSVCDKKTVPLTWTG-366	1873.13	-0.58	88.7%	80.4%
63 of 199	5/3/2007	17	356-DKKTVPLTWTGFLAVSG-372	1820.15	0.18	82.1%	84.2%
64 of 199	5/3/2007	17	362-LTWTGFLAVSGEIEKIT-378	1865.19	0.58	98.2%	89.1%
65 of 199	5/3/2007	16	368-LAVSGEIEKITGCTVF-383	1666.97	0.90	91.2%	88.0%
66 of 199	5/3/2007	17	372-GEIEKITGCTVFCTLAG-388	1742.06	0.73	82.8%	88.4%
67 of 199	5/3/2007	17	378-TGCTVFCTLAGPGASCE-394	1616.87	0.75	80.6%	87.6%
68 of 199	5/3/2007	17	384-CTLAGPGASCEAYSETG-400	1616.78	0.01	85.7%	87.6%
69 of 199	5/3/2007	15	390-GASCEAYSETGIFNI-404	1561.71	0.20	92.7%	87.3%
70 of 199	5/3/2007	16	393-CEAYSETGIFNISSPT-408	1718.88	-0.09	88.7%	88.3%
71 of 199	5/3/2007	17	397-SETGIFNISSPTCLVKN-413	1810.06	0.12	84.9%	88.8%
72 of 199	5/3/2007	17	403-NISSPTCLVKNVQKFRG-419	1891.22	-0.30	89.2%	80.6%
73 of 199	5/3/2007	17	409-CLVKNVQKFRGSEQRIN-425	2019.35	-0.79	100.0%	78.0%
74 of 199	5/3/2007	17	414-VQKFRGSEQRINFMCQR-430	2127.48	-1.02	88.3%	78.9%
75 of 199	5/3/2007	17	420-SEQRINFMCQRVDQD-436	2067.32	-0.59	83.8%	85.8%

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76 of 199	5/3/2007	17	426-FMCQRVDQDVVVYCNQG-442	2004.27	-0.04	85.6%	89.8%
77 of 199	5/3/2007	17	432-DQDVVVYCNQGKQKVI-448	1922.22	-0.01	93.1%	84.9%
78 of 199	5/3/2007	17	438-YCNGQKQKVIKTLVIG-454	1878.31	0.31	Unknown <sup>c</sup>	80.5%
79 of 199	5/3/2007	17	444-KVILTKLVIGQCIYTF-460	1940.43	1.16	95.5%	85.0%
80 of 199	5/3/2007	17	450-TLVIGQCIYFTSLFSL-466	1906.28	1.40	Unknown <sup>c</sup>	89.3%
81 of 199	5/3/2007	17	456-CIYFTSLFSLIPGVAH-472	1869.23	1.25	80.5%	89.1%
82 of 199	5/3/2007	17	462-SLFLIPGVAHSLAVEL-478	1753.09	1.38	93.9%	88.5%
83 of 199	5/3/2007	17	468-PGVAHSLAVELCVPGLH-484	1699.01	0.91	88.2%	83.2%
84 of 199	5/3/2007	17	474-LAVELCVPGLHGWATTA-490	1738.07	0.96	85.4%	88.4%
85 of 199	5/3/2007	16	480-VPGLHGWATTALLITF-495	1697.04	1.12	82.0%	88.2%
86 of 199	5/3/2007	17	485-GWATTALLITFCFGWLL-501	1913.35	1.57	Unknown <sup>c</sup>	89.4%
87 of 199	5/3/2007	17	491-LLITFCFGWLLIPAVTL-507	1920.45	2.22	Unknown <sup>c</sup>	89.4%
88 of 199	5/3/2007	17	497-FGWLLIPAVTLIILKIL-513	1923.52	2.25	86.3%	89.4%
89 of 199	5/3/2007	16	503-PAVTLIILKILRLLTF-518	1824.39	1.87	92.4%	84.2%
90 of 199	5/3/2007	16	508-IILKILRLLTFSCSHY-523	1920.40	1.18	81.3%	80.8%
91 of 199	5/3/2007	17	513-LRLLTFSCSHYSTESKF-529	2019.33	-0.09	81.0%	81.6%
92 of 199	5/3/2007	17	519-SCSHYSTESKFKVILER-535	2014.31	-0.58	80.1%	77.9%
93 of 199	5/3/2007	17	525-TESKFKVILERVKVEYQ-541	2096.48	-0.55	82.6%	78.6%
94 of 199	5/3/2007	17	531-VILERVKVEYQKTMGSM-547	2011.45	-0.08	89.2%	81.5%
95 of 199	5/3/2007	17	537-KVEYQKTMGSMVCDICH-553	1972.36	-0.18	91.7%	81.2%
96 of 199	5/3/2007	17	543-TMGSMVCDICHECETA-559	1867.16	0.14	92.9%	84.5%
97 of 199	5/3/2007	17	549-CDICHECETAKELETH-565	1998.22	-0.87	97.0%	77.8%
98 of 199	5/3/2007	14	554-HECETAKELETHKK-567	1682.91	-1.81	87.4%	71.1%
99 of 199	5/3/2007	17	556-CETAKELETHKSCPEG-572	1890.16	-1.32	84.4%	76.8%
100 of 199	5/3/2007	17	562-LETHKSCPEGQCPYCM-578	1954.31	-0.86	83.9%	81.1%
101 of 199	5/3/2007	17	568-SCPEGQCPYCMTITEST-584	1850.11	-0.31	89.6%	89.0%
102 of 199	5/3/2007	17	574-CPYCMTITESTESALQA-590	1848.14	0.10	82.9%	89.0%
103 of 199	5/3/2007	17	580-ITESTESALQAHFAICK-596	1849.14	0.17	99.8%	84.4%
104 of 199	5/3/2007	17	586-SALQAHFAICKLTNRFQ-602	1948.31	0.12	99.1%	81.0%
105 of 199	5/3/2007	16	592-FAICKLTNRFQENLKK-607	1953.36	-0.56	98.7%	77.4%
106 of 199	5/3/2007	17	597-LTNRFQENLKKSLKRPE-613	2101.46	-1.59	98.8%	75.4%
107 of 199	5/3/2007	17	601-FQENLKKSLKRPEVRKG-617	2057.45	-1.58	100.0%	72.1%
108 of 199	5/3/2007	17	607-KSLKRPEVRKGCYRTL-623	1991.41	-1.15	88.6%	71.4%
109 of 199	5/3/2007	17	612-PEVRKGCYRTLGVFRYK-628	2072.48	-0.76	98.4%	75.2%
110 of 199	5/3/2007	17	618-CYRTLGVFRYKSRCYVG-634	2071.46	-0.21	95.3%	78.4%
111 of 199	5/3/2007	17	624-VFRYKSRCYVGLVWGIL-640	2059.51	0.71	84.3%	81.9%
112 of 199	5/3/2007	17	630-RCYVGLVWGILLTTELI-646	1949.39	1.34	90.8%	89.5%
113 of 199	5/3/2007	17	636-VWGILLTTELIWAASA-652	1857.27	1.56	Unknown <sup>c</sup>	89.1%
114 of 199	5/3/2007	17	642-TTELIWAASADTPLME-658	1862.19	0.47	83.5%	89.1%
115 of 199	5/3/2007	17	648-WAASADTPLMESGWSDT-664	1825.00	-0.41	85.2%	88.9%
116 of 199	5/3/2007	17	654-TPLMESGWSDTAHGVGI-670	1757.96	-0.04	99.2%	88.5%
117 of 199	5/3/2007	17	660-GWSDTAHGVGIIPMKTD-676	1785.03	-0.18	97.7%	83.9%
118 of 199	5/3/2007	17	666-HGVGIIPMKTDLELDF-682	1856.19	0.39	96.9%	84.4%
119 of 199	5/3/2007	18	672-PMKTDLELDFALASSSSY-689	1975.25	-0.08	87.5%	89.7%
120 of 199	5/3/2007	17	679-LDFALASSSSYSYRRKL-695	1964.25	-0.31	89.3%	81.2%
121 of 199	5/3/2007	17	685-SSSSYSYRRKLVNPNANQ-701	1957.15	-1.28	99.2%	81.1%
122 of 199	5/3/2007	17	691-YRRKLVNPNANQEETLPF-707	2075.38	-1.13	99.0%	82.0%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
123 of 199	5/3/2007	17	697-NPANQEETLPFHFQLDK-713	2028.23	-1.21	92.5%	85.6%
124 of 199	5/3/2007	17	700-NQEETLPFHFQLDKQVV-716	2072.31	-0.72	94.1%	85.8%
125 of 199	5/3/2007	17	706-PFHFQLDKQVVHAEIQN-722	2050.31	-0.52	97.4%	81.8%
126 of 199	5/3/2007	17	712-DKQVVHAEIQNLGHWMD-728	2020.26	-0.72	97.2%	81.6%
127 of 199	5/3/2007	17	718-AEIQNLGHWMDGTFNIK-734	1974.24	-0.45	88.3%	85.2%
128 of 199	5/3/2007	17	724-GHWMDGTFNIKTAFHCY-740	2028.32	-0.32	83.5%	81.6%
129 of 199	5/3/2007	17	730-TFNIKTAFHCYGECKKY-746	2053.42	-0.55	85.4%	78.3%
130 of 199	5/3/2007	17	736-AFHCYGECKKYAYPWQT-752	2095.43	-0.83	96.1%	82.1%
131 of 199	5/3/2007	17	741-GECKKYAYPWQTAKCF-757	2070.47	-0.63	95.7%	82.0%
132 of 199	5/3/2007	17	747-AYPWQTAKCFEFDYQY-763	2188.50	-1.01	92.2%	86.5%
133 of 199	5/3/2007	16	753-AKCFEFDYQYETSWG-768	2002.23	-1.08	97.1%	85.4%
134 of 199	5/3/2007	17	757-FEKDYQYETSWG-773	2079.21	-1.66	97.1%	90.1%
135 of 199	5/3/2007	17	763-YETSWG-779	1782.93	-0.69	90.5%	88.7%
136 of 199	5/3/2007	17	769-CNPPDCPGVGTGCTACG-785	1551.75	0.07	96.3%	87.2%
137 of 199	5/3/2007	17	775-PGVGTGCTACGVYLDKL-791	1653.94	0.56	95.0%	87.9%
138 of 199	5/3/2007	17	781-CTACGVYLDKLRVSGKA-797	1784.15	0.31	90.9%	79.6%
139 of 199	5/3/2007	17	787-YLDKLRVSGKAYKIVSL-803	1953.38	0.11	92.8%	77.4%
140 of 199	5/3/2007	17	793-SVGKAYKIVSLKYTRKV-809	1940.39	-0.16	97.8%	73.9%
141 of 199	5/3/2007	17	799-KIVSLKYTRKVCIQ-815	1950.43	0.23	90.2%	77.4%
142 of 199	5/3/2007	17	805-YTRKVCIQ-821	2008.36	-0.72	85.7%	77.9%
143 of 199	5/3/2007	16	811-IQLGTEQ-826	1814.00	-0.65	90.6%	84.1%
144 of 199	5/3/2007	16	815-TEQ-830	1819.04	-0.31	92.9%	84.2%
145 of 199	5/3/2007	16	820-KHIDVNDCLVTPSVK-835	1767.07	0.19	95.5%	79.5%
146 of 199	5/3/2007	17	825-NDCLVTPSVK-841	1793.19	1.01	98.8%	88.7%
147 of 199	5/3/2007	17	831-PSVK-847	1758.18	0.47	89.2%	83.7%
148 of 199	5/3/2007	17	837-MIGTISKLQPGD-853	1847.26	0.79	99.0%	89.0%
149 of 199	5/3/2007	17	843-KLQPGD-859	1826.13	-0.07	92.4%	88.9%
150 of 199	5/3/2007	17	849-TLLFLG-865	1840.24	0.76	96.3%	89.0%
151 of 199	5/3/2007	15	855-PLEQGGIILKQWCTT-869	1687.00	0.00	86.9%	88.1%
152 of 199	5/3/2007	17	859-GGIILKQWCTTSCVFGD-875	1828.14	0.56	91.1%	88.9%
153 of 199	5/3/2007	17	864-KQWCTTSCVFGD-880	1888.18	-0.09	90.7%	89.2%
154 of 199	5/3/2007	17	870-SCVFGD-886	1704.92	0.25	89.9%	88.2%
155 of 199	5/3/2007	17	876-PGDIMSTTSGMRCPEHT-892	1820.07	-0.68	86.6%	84.2%
156 of 199	5/3/2007	17	882-TTSGMRCPEHTGSFRKI-898	1908.21	-0.82	97.9%	77.0%
157 of 199	5/3/2007	17	888-CPEHTGSFRKICGFATT-904	1855.15	-0.21	88.4%	80.3%
158 of 199	5/3/2007	17	894-SFRKICGFATTPTCEYQ-910	1952.27	-0.28	90.8%	85.1%
159 of 199	5/3/2007	17	900-GFATTPTCEYQ-916	1732.86	-0.41	86.8%	88.4%
160 of 199	5/3/2007	17	906-TCEYQ-922	1923.19	-0.45	97.3%	89.4%
161 of 199	5/3/2007	17	912-NTVSGFQ-928	1976.24	-0.65	87.3%	85.2%
162 of 199	5/3/2007	17	917-FQ-933	2066.37	-0.46	89.3%	85.8%
163 of 199	5/3/2007	16	923-TRDSFQ-938	1879.03	-0.79	92.1%	84.6%
164 of 199	5/3/2007	17	927-FQ-943	2019.21	-0.69	97.5%	85.5%
165 of 199	5/3/2007	16	933-TEPHIT-948	1923.09	-1.17	92.5%	84.9%
166 of 199	5/3/2007	17	938-TSNRLEWIDPDSSIKDH-954	2013.17	-1.29	86.6%	81.5%
167 of 199	5/3/2007	17	944-WIDPDSSIKDH-960	1997.26	-0.31	96.4%	85.4%
168 of 199	5/3/2007	17	950-SIKDH-966	2016.30	-0.28	90.5%	81.6%
169 of 199	5/3/2007	16	956-NMVLNRDVSFQ-971	1867.01	-0.62	87.5%	89.1%



Table 1							
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
170 of 199	5/3/2007	17	961-RDVSFQDLSDNPKVDL-977	1951.14	-0.66	93.6%	85.1%
171 of 199	5/3/2007	17	967-DLSDNPKVDLHTQSID-983	1900.05	-0.78	88.5%	84.7%
172 of 199	5/3/2007	17	973-CKVDLHTQSIDGAWGSG-989	1773.95	-0.31	86.1%	83.8%
173 of 199	5/3/2007	17	979-TQSIDGAWGSGVGFTLV-995	1694.87	0.52	91.7%	88.1%
174 of 199	5/3/2007	17	985-AWGSGVGFTLVCTVGLT-1001	1667.95	1.29	84.8%	88.0%
175 of 199	5/3/2007	17	991-GFTLVCTVGLTECANFI-1007	1788.12	1.35	Unknown <sup>c</sup>	88.7%
176 of 199	5/3/2007	16	997-TVGLTECANFITSIKA-1012	1667.97	0.73	91.3%	88.0%
177 of 199	5/3/2007	17	1001-TECANFITSIKACDSAM-1017	1805.12	0.39	81.2%	88.8%
178 of 199	5/3/2007	17	1007-ITSIKACDSAMCYGATV-1023	1734.08	0.79	82.6%	88.4%
179 of 199	5/3/2007	17	1013-CDSAMCYGATVTNLLRG-1029	1775.07	0.38	81.4%	88.6%
180 of 199	5/3/2007	17	1019-YGATVTNLLRGSNTVKV-1035	1793.06	0.09	88.7%	84.0%
181 of 199	5/3/2007	17	1025-NLLRGSNTVKVVGKGGH-1041	1735.99	-0.32	90.2%	75.3%
182 of 199	5/3/2007	17	1031-NTVKVVGKGGHSGSLFK-1047	1714.98	-0.18	87.2%	75.1%
183 of 199	5/3/2007	17	1037-GKGGHSGSLFKCCHDTD-1053	1748.91	-0.79	83.9%	75.4%
184 of 199	5/3/2007	17	1043-GSLFKCCHDTDCTEEGL-1059	1858.06	-0.36	82.4%	84.5%
185 of 199	5/3/2007	17	1049-CHDTDCTEEGLAASPPH-1065	1782.91	-0.81	97.8%	83.9%
186 of 199	5/3/2007	17	1055-TEEGLAASPPHLDRVTG-1071	1749.93	-0.53	96.8%	83.7%
187 of 199	5/3/2007	16	1061-ASPPHLDRVTGYNQID-1076	1782.94	-0.86	85.1%	83.9%
188 of 199	5/3/2007	17	1066-LDRVTGYNQIDSDKVYD-1082	2001.14	-1.01	92.1%	85.4%
189 of 199	5/3/2007	14	1072-YNQIDSDKVYDDGA-1085	1602.64	-1.30	80.1%	87.5%
190 of 199	5/3/2007	17	1075-IDSDKVYDDGAPPCTIK-1091	1837.06	-0.63	93.8%	84.3%
191 of 199	5/3/2007	16	1081-YDDGAPPCTIKCWFTK-1096	1845.16	-0.49	80.8%	84.4%
192 of 199	5/3/2007	17	1086-PPCTIKCWFTKSGEWLL-1102	2009.45	0.06	97.4%	85.5%
193 of 199	5/3/2007	17	1092-CWFTKSGEWLLGILNGN-1108	1938.24	0.14	80.9%	89.5%
194 of 199	5/3/2007	17	1098-GEWLLGILNGNWVVAV-1114	1839.16	1.24	Unknown <sup>c</sup>	89.0%
195 of 199	5/3/2007	17	1104-ILNGNWVVAVLIVILI-1120	1848.33	2.58	Unknown <sup>c</sup>	89.0%
196 of 199	5/3/2007	17	1110-VVVAVLIVILISILLF-1126	1837.44	3.64	Unknown <sup>c</sup>	89.0%
197 of 199	5/3/2007	17	1116-IVILISILLFSFFCPV-1132	1937.50	2.90	Unknown <sup>c</sup>	89.5%
198 of 199	5/3/2007	17	1122-SILLFSFFCPVRSRKNK-1138	2042.49	0.17	90.7%	78.2%
199 of 199	5/3/2007	13	1128-FFCPVRSRKNKAN-1140	1566.86	-0.93	90.1%	73.3%

<sup>a</sup>% full-length  
<sup>b</sup>Remainder is salt and water  
<sup>c</sup>Peptide incompatible with HPLC conditions

Note: Actual amino acid results which are not within 20% of expected results are highlighted in red.

		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 199	Expected	2.00			1.00		1.00		1.00	2.00		1.00	1.00			3.00	1.00		4.00	
	Actual	2.13			0.55 <sup>b</sup>		1.00		1.02	1.78		1.04	0.99			2.74	0.00 <sup>a</sup>		2.18 <sup>c</sup>	
2 of 199	Expected	2.00	1.00	1.00			1.00		1.00	4.00			1.00			4.00			2.00	
	Actual	1.82	1.19	1.00			1.24		0.78	3.76			0.79			3.74			0.92 <sup>c</sup>	
3 of 199	Expected	2.00	1.00	1.00		2.00	1.00		1.00	3.00	1.00					4.00		1.00		
	Actual	1.77	1.04	0.85		1.71	1.10		0.89	2.93	0.90					3.73		1.00		
4 of 199	Expected		1.00	1.00	1.00	2.00	1.00	1.00	1.00	3.00	1.00			1.00		2.00		1.00	1.00	
	Actual		0.85	0.81	0.51 <sup>b</sup>	1.85	1.08	1.13	0.91	2.88	0.72			1.07		1.79		0.80	1.00	
5 of 199	Expected				1.00	3.00	3.00	1.00	1.00	2.00	1.00			1.00		1.00		2.00	1.00	
	Actual				0.71 <sup>b</sup>	2.78	2.75	1.15	0.92	1.91	0.79			1.02		0.93		1.77	1.00	
6 of 199	Expected				1.00	2.00	4.00	1.00		1.00				1.00	1.00	2.00		1.00	3.00	
	Actual				0.43 <sup>b</sup>	1.80	4.12	1.22		1.00				1.07	0.96	1.77		1.00	2.85	
7 of 199	Expected					2.00	3.00		2.00	3.00				1.00	1.00	2.00		1.00	2.00	
	Actual					1.76	3.15		1.89	2.96				1.19	1.00	1.86		0.77	1.77	
8 of 199	Expected	1.00		1.00		2.00	1.00		2.00	3.00				1.00	1.00	3.00			2.00	
	Actual	1.23		1.00		1.78	1.16		1.81	2.77				1.12	0.99	2.70			2.00	
9 of 199	Expected	1.00		1.00		2.00			2.00	3.00	1.00			1.00		2.00			1.00	
	Actual	1.06		1.14		1.77			1.79	2.86	0.93			1.01		2.00			1.05	
10 of 199	Expected	1.00		3.00	1.00	2.00			1.00	3.00	1.00		1.00		2.00	1.00			1.00	
	Actual	1.07		2.93	0.51 <sup>b</sup>	1.79			1.09	2.73	1.00		1.19		1.91	0.98			0.99	
11 of 199	Expected	1.00		3.00	1.00	1.00		1.00	1.00	2.00	1.00		1.00	1.00	2.00	1.00			1.00	
	Actual	1.11		3.00	0.46 <sup>b</sup>	0.97		1.03	0.87	1.79	0.87		0.97	1.09	1.89	1.10			0.96	
12 of 199	Expected	1.00		3.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00	1.00	3.00		1.00	1.00	
	Actual	1.09		2.89	0.48 <sup>b</sup>	1.00		1.17		0.96	0.83		0.95	1.20	0.77	2.74		1.20	0.99	
13 of 199	Expected	1.00		2.00		2.00		1.00			2.00			1.00		4.00	1.00	1.00	2.00	
	Actual	1.00		1.79		1.88		0.99			1.71			1.20		3.82	0.00 <sup>a</sup>	1.31	1.77	
14 of 199	Expected			2.00		3.00					3.00				2.00	4.00	1.00	1.00	1.00	
	Actual			1.73		2.93					3.04				2.00	3.79	0.00 <sup>a</sup>	1.24	1.08	
15 of 199	Expected	2.00		2.00		1.00	1.00				2.00				3.00	4.00	1.00		1.00	
	Actual	1.72		1.73		1.00	1.05				1.82				2.81	3.74	0.00 <sup>a</sup>		1.12	
16 of 199	Expected	3.00		1.00		2.00	1.00				1.00		1.00		3.00	5.00				
	Actual	3.00		0.96		1.92	1.18				1.05		0.99		2.80	4.77				
17 of 199	Expected	3.00		2.00		2.00	1.00		1.00	1.00	2.00		1.00			4.00				
	Actual	2.67		1.85		2.00	1.25		1.01	0.96	1.60		0.83			3.72				
18 of 199	Expected	1.00		2.00	1.00	2.00	1.00		2.00	1.00	3.00		1.00			3.00				
	Actual	1.03		1.90	0.47 <sup>b</sup>	1.73	1.18		1.84	1.00	2.88		0.86			2.75				
19 of 199	Expected			2.00	1.00	2.00	1.00		2.00	1.00	2.00		1.00	2.00		3.00				
	Actual			2.00	0.45 <sup>b</sup>	2.01	1.22		1.93	0.93	1.89		0.91	2.07		2.78				
20 of 199	Expected	2.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00		1.00	2.00	1.00	3.00		1.00		
	Actual	1.95	1.16	0.95	0.48 <sup>b</sup>	1.00	1.23		0.96		0.89		1.00	1.96	1.01	2.79		1.08		
21 of 199	Expected	2.00	1.00		1.00	1.00			1.00		2.00		1.00	1.00	1.00	3.00		2.00	1.00	
	Actual	1.91	1.13		0.64 <sup>b</sup>	0.90			0.54 <sup>c</sup>		2.03		0.91	1.00	1.11	2.93		1.79	0.48 <sup>c</sup>	
22 of 199	Expected	2.00	1.00	2.00	2.00	1.00			1.00	1.00	2.00				1.00	1.00		2.00	1.00	
	Actual	1.87	1.14	2.00	0.95 <sup>b</sup>	1.08			0.58 <sup>c</sup>	0.99	1.78				0.89	1.16		1.93	0.51 <sup>c</sup>	
23 of 199	Expected	1.00		2.00	3.00	1.00		1.00	1.00	2.00				1.00		3.00		1.00	1.00	
	Actual	1.20		2.00	1.47 <sup>b</sup>	1.11		1.20	0.42 <sup>c</sup>	1.78				1.26		2.71		1.17	0.63 <sup>c</sup>	
24 of 199	Expected	2.00		1.00	2.00	1.00		2.00	1.00	3.00				1.00		2.00			1.00	
	Actual	1.95		0.95	1.12 <sup>b</sup>	1.00		2.05	1.00	2.88				1.17		1.73			1.16	
25 of 199	Expected	1.00			2.00	1.00		2.00	1.00	2.00		1.00		2.00		3.00			2.00	
	Actual	1.20			1.18 <sup>b</sup>	1.00		1.85	1.10	2.00		1.23		2.05		2.79			2.06	

**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)
26 of 199	Expected	1.00	1.00		2.00	1.00		1.00	1.00	1.00		2.00		1.00	2.00	1.00			3.00
	Actual	0.92	1.09		0.95 <sup>b</sup>	0.84		1.17	0.92	0.93		2.09		1.00	1.80	0.74			2.82
27 of 199	Expected		1.00		2.00	1.00	1.00		1.00	2.00		2.00			2.00	1.00			2.00
	Actual		1.00		0.93 <sup>b</sup>	1.02	1.09		1.02	1.72		1.93			1.86	0.89			1.79
28 of 199	Expected		2.00		1.00	1.00	1.00		2.00	2.00		2.00			4.00				2.00
	Actual		2.15		0.53 <sup>b</sup>	1.02	1.10		1.82	1.75		2.19			3.70				2.00
29 of 199	Expected		1.00			2.00	1.00		3.00	2.00	1.00	1.00			2.00	1.00		2.00	1.00
	Actual		1.00			1.79	0.98		1.76 <sup>c</sup>	1.76	1.12	1.11			1.78	0.96		2.08	0.62 <sup>c</sup>
30 of 199	Expected		1.00		1.00	3.00	1.00		2.00	1.00	1.00				1.00	2.00		2.00	2.00
	Actual		1.02		0.47 <sup>b</sup>	2.76	1.08		1.42 <sup>c</sup>	1.23	0.96				0.81	2.02		2.00	1.51 <sup>c</sup>
31 of 199	Expected				2.00	3.00	2.00		1.00	2.00	1.00		1.00			2.00		2.00	1.00
	Actual				0.72 <sup>b</sup>	2.71	2.11		1.00	1.76	0.93		0.96			1.70		1.80	1.12
32 of 199	Expected				1.00	2.00	2.00	1.00	3.00	2.00			1.00	1.00		3.00			1.00
	Actual				0.53 <sup>b</sup>	2.00	1.97	1.10	2.85	1.82			0.96	1.23		2.80			1.13
33 of 199	Expected	1.00			1.00	2.00	1.00	1.00	3.00	2.00			1.00	1.00		3.00			
	Actual	1.02			0.49 <sup>b</sup>	1.78	1.09	1.16	2.79	1.60			0.81	1.00		2.78			
34 of 199	Expected	1.00		1.00		1.00	1.00	2.00	2.00	1.00			1.00	2.00		4.00		1.00	
	Actual	1.08		1.00		1.03	1.08	2.13	1.73	0.97			0.79	1.96		3.76		0.95	
35 of 199	Expected	1.00		1.00		1.00	1.00	1.00	1.00	2.00		1.00		2.00		4.00		1.00	1.00
	Actual	1.00		1.01		1.00	1.07	1.15	0.91	1.76		0.94		1.87		3.80		0.87	0.96
36 of 199	Expected	1.00		1.00	1.00		1.00	1.00		2.00		1.00	1.00	1.00		4.00		1.00	2.00
	Actual	0.87		0.78	0.46 <sup>b</sup>		1.00	1.20		1.70		1.00	0.94	0.92		3.87		0.99	1.77
37 of 199	Expected	1.00			1.00	1.00	1.00			3.00	2.00	1.00	1.00	1.00		3.00			2.00
	Actual	0.98			0.55 <sup>b</sup>	1.02	1.04			2.98	1.78	0.99	1.01	1.00		2.75			1.87
38 of 199	Expected	2.00			1.00	2.00	1.00			4.00	3.00		1.00			1.00			2.00
	Actual	1.72			0.76 <sup>b</sup>	1.75	1.11			3.95	2.83		1.00			1.10			1.74
39 of 199	Expected	1.00				3.00	1.00		1.00	5.00	3.00					2.00			1.00
	Actual	0.97				2.77	1.32		1.16	4.89	3.15					2.10			1.00
40 of 199	Expected	1.00			1.00	3.00	1.00		1.00	3.00	2.00				1.00	2.00			2.00
	Actual	1.00			0.56 <sup>b</sup>	2.76	1.16		1.05	3.10	1.86				0.90	1.86			2.15
41 of 199	Expected			1.00	1.00	3.00	2.00		1.00	2.00	1.00		1.00		2.00	2.00			1.00
	Actual			1.18	0.49 <sup>b</sup>	2.93	1.97		1.10	1.89	0.85		0.91		1.72	2.00			1.10
42 of 199	Expected			1.00	2.00	2.00	2.00		2.00				2.00		2.00	1.00		2.00	1.00
	Actual			1.08	0.96 <sup>b</sup>	1.84	2.14		1.77				1.81		1.77	1.08		1.89	1.00
43 of 199	Expected			1.00	1.00	2.00	2.00	1.00	2.00		1.00		2.00		2.00			2.00	
	Actual			1.04	0.48 <sup>b</sup>	1.98	2.13	0.97	1.95		0.94		1.77		2.00			1.80	
44 of 199	Expected				1.00	1.00	1.00	1.00	2.00	1.00	1.00		2.00	2.00	1.00	1.00		2.00	1.00
	Actual				0.47 <sup>b</sup>	1.13	0.99	1.14	1.82	0.96	0.83		1.76	2.00	1.03	1.02		1.87	0.93
45 of 199	Expected		1.00	1.00		2.00	1.00	1.00		1.00	1.00	1.00	1.00	2.00	1.00	1.00		1.00	1.00
	Actual		1.16	0.87		1.89	1.06	1.03		0.83	0.78	0.95	0.79	1.84	0.93	0.99		1.00	0.93
46 of 199	Expected	1.00	1.00	1.00		2.00				2.00		1.00	2.00	2.00	1.00	2.00		1.00	1.00
	Actual	1.17	1.10	1.00		1.77				1.95		0.98	1.85	2.09	0.92	1.79		0.86	0.98
47 of 199	Expected	1.00	2.00	2.00		2.00				2.00		2.00	1.00		1.00	1.00		1.00	1.00
	Actual	1.23	2.00	2.12		2.05				1.73		1.82	0.85		1.11	1.05		0.97	0.93
48 of 199	Expected	1.00	2.00	2.00		2.00	1.00	1.00		2.00		1.00	1.00	1.00	1.00	1.00			1.00
	Actual	1.08	1.88	2.00		1.95	1.06	1.09		1.86		0.96	0.82	1.05	0.95	0.95			0.79
49 of 199	Expected		2.00	5.00		2.00	2.00	1.00		1.00		1.00		2.00					1.00
	Actual		1.80	4.74		1.87	2.11	1.20		0.80		1.09		2.00					0.86
50 of 199	Expected		2.00	4.00		3.00	3.00	1.00	1.00	1.00		1.00		1.00					
	Actual		1.75	3.70		2.73	3.02	1.12	0.81	0.95		1.06		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)	
52 of 199	Expected	2.00	1.00			1.00	2.00		1.00	1.00	1.00	1.00		2.00	1.00	2.00				2.00
	Actual	1.84	0.93			1.13	2.00		0.83	1.00	1.02	0.97		1.82	0.85	1.75				1.88
53 of 199	Expected	1.00				3.00	1.00				1.00	1.00		2.00	1.00	5.00				2.00
	Actual	1.05				3.01	1.15				0.89	0.98		2.00	0.93	4.70				1.77
54 of 199	Expected	2.00				3.00	2.00	1.00				1.00	1.00	1.00	1.00	4.00				1.00
	Actual	2.00				2.81	2.16	1.07				0.82	0.97	1.01	0.88	3.84				0.95
55 of 199	Expected	3.00				2.00	2.00	1.00				2.00	1.00	1.00		2.00		1.00		
	Actual	2.80				1.79	2.29	1.00				1.83	0.81	1.19		1.77		1.07		
56 of 199	Expected	3.00				1.00	2.00	1.00				2.00	2.00	1.00	3.00	1.00		1.00		
	Actual	2.72				0.94	2.22	0.98				1.74	1.77	1.00	2.86	1.03		0.96		
57 of 199	Expected	3.00	1.00	1.00			1.00			1.00	1.00	1.00	1.00	1.00	3.00	1.00		1.00	1.00	1.00
	Actual	2.70	0.76	1.09			1.24			0.87	1.00	0.96	1.01	1.10	2.77	0.97		0.96	0.95	
58 of 199	Expected	1.00	1.00	1.00		1.00				1.00	1.00		2.00	1.00	3.00	1.00		1.00	2.00	2.00
	Actual	1.01	0.77	0.95		0.93				0.82	1.03		1.79	1.00	2.81	0.95		0.83	1.85	
59 of 199	Expected	2.00	1.00	1.00		1.00	1.00	2.00	1.00	1.00			1.00	2.00	1.00			1.00	2.00	
	Actual	2.09	0.95	1.08		1.25	1.30	0.78 <sup>c</sup>	0.88	1.10			0.73	2.00	1.13			0.88	1.72	
60 of 199	Expected	1.00		1.00		2.00	1.00	1.00	2.00				1.00	2.00	3.00			1.00	2.00	
	Actual	1.12		1.05		1.95	1.18	1.27	0.91 <sup>c</sup>				0.88	2.00	2.78			0.87	1.79	
61 of 199	Expected	1.00		2.00	1.00	1.00	1.00	1.00	2.00		2.00			1.00	2.00	1.00				2.00
	Actual	1.08		1.71	0.45 <sup>b</sup>	0.89	1.02	1.02	0.83 <sup>c</sup>		1.81			1.00	1.77	0.99				1.84
62 of 199	Expected			2.00	1.00		1.00	1.00		1.00	2.00			1.00	2.00	3.00	1.00			2.00
	Actual			1.72	0.59 <sup>b</sup>		1.20	0.83		0.99	2.16			1.19	1.76	2.77	0.00 <sup>a</sup>			2.00
63 of 199	Expected	1.00		1.00			2.00			2.00	2.00		1.00	1.00	1.00	3.00	1.00			2.00
	Actual	1.06		0.76			2.20			1.70	1.97		1.00	1.03	0.98	2.86	0.00 <sup>a</sup>			1.91
64 of 199	Expected	1.00				2.00	2.00	2.00	2.00	1.00			1.00		1.00	3.00	1.00			1.00
	Actual	1.21				1.82	2.13	1.74	1.87	0.99			1.00		0.89	2.72	0.00 <sup>a</sup>			1.04
65 of 199	Expected	1.00			1.00	2.00	2.00	2.00	1.00	1.00			1.00		1.00	2.00				2.00
	Actual	1.00			0.68 <sup>b</sup>	1.70	2.15	1.93	0.98	0.87			0.90		0.95	1.79				1.80
66 of 199	Expected	1.00			2.00	2.00	3.00	2.00	1.00	1.00			1.00			3.00				1.00
	Actual	1.08			0.88 <sup>b</sup>	2.00	3.14	1.78	1.00	0.87			1.03			2.75				1.13
67 of 199	Expected	2.00			3.00	1.00	3.00			1.00			1.00	1.00	1.00	3.00				1.00
	Actual	2.09			1.44 <sup>b</sup>	1.00	3.23			0.94			0.90	1.19	0.82	2.73				1.11
68 of 199	Expected	3.00			2.00	2.00	3.00			1.00				1.00	2.00	2.00			1.00	
	Actual	3.17			0.85 <sup>b</sup>	1.70	2.76			0.77				0.78	1.60	1.76			0.76	
69 of 199	Expected	2.00		1.00	1.00	2.00	2.00	2.00					1.00		2.00	1.00			1.00	
	Actual	2.00		1.12	0.47 <sup>b</sup>	1.87	2.14	1.78					0.97		1.90	0.97			1.15	
70 of 199	Expected	1.00		1.00	1.00	2.00	1.00	2.00					1.00	1.00	3.00	2.00			1.00	
	Actual	1.03		0.90	0.46 <sup>b</sup>	1.80	1.04	1.85					0.98	1.00	2.72	1.80			1.08	
71 of 199	Expected			2.00	1.00	1.00	1.00	2.00	1.00	1.00			1.00	1.00	3.00	2.00				1.00
	Actual			1.79	0.48 <sup>b</sup>	0.91	1.12	1.89	0.86	0.84			0.88	1.00	2.92	1.78				0.98
72 of 199	Expected		1.00	2.00	1.00	1.00	1.00	1.00	1.00	2.00			1.00	1.00	2.00	1.00				2.00
	Actual		1.00	1.89	0.54 <sup>b</sup>	0.89	1.12	0.88	0.87	1.95			1.09	0.96	1.75	0.81				1.70
73 of 199	Expected		2.00	2.00	1.00	3.00	1.00	1.00	1.00	2.00			1.00		1.00					2.00
	Actual		2.00	1.96	0.65 <sup>b</sup>	2.76	1.15	0.75	0.89	1.77			0.93		0.95					1.74
74 of 199	Expected		3.00	1.00	1.00	4.00	1.00	1.00		1.00	1.00	1.00	2.00		1.00					1.00
	Actual		3.00	1.05	0.62 <sup>b</sup>	3.75	1.19		1.00		0.95	1.09	1.73		0.95					0.94
75 of 199	Expected		2.00	3.00	1.00	4.00			1.00			1.00	1.00		1.00					3.00
	Actual		2.00	3.20	0.54 <sup>b</sup>	3.97			0.90			1.05	1.00		0.97					2.10 <sup>c</sup>



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)
76 of 199	Expected		1.00	3.00	2.00	3.00	1.00					1.00	1.00					1.00	4.00
	Actual		1.04	3.00	0.99 <sup>b</sup>	2.93	1.18					0.94	0.87					0.97	2.41 <sup>c</sup>
77 of 199	Expected			3.00	1.00	2.00	1.00		1.00	1.00	2.00					1.00		1.00	4.00
	Actual			2.75	0.53 <sup>b</sup>	1.86	2.01		0.59 <sup>c</sup>	1.29	2.00					0.89		1.22	2.66 <sup>c</sup>
78 of 199	Expected			1.00	1.00	1.00	2.00		2.00	2.00	3.00					2.00		1.00	2.00
	Actual			1.00	0.50 <sup>b</sup>	0.97	2.04		1.55 <sup>c</sup>	1.90	2.71					1.78		1.05	1.65 <sup>c</sup>
79 of 199	Expected				1.00	1.00	1.00		3.00	2.00	2.00		1.00			3.00		1.00	2.00
	Actual				0.53 <sup>b</sup>	1.08	1.00		1.99 <sup>c</sup>	1.80	1.83		0.99			2.90		0.99	1.39 <sup>c</sup>
80 of 199	Expected				1.00	1.00	1.00		2.00	3.00			2.00		2.00	3.00		1.00	1.00
	Actual				0.54 <sup>b</sup>	1.03	1.21		1.63 <sup>c</sup>	2.74			2.00		2.16	2.78		1.27	0.78 <sup>c</sup>
81 of 199	Expected	1.00			1.00		1.00	1.00	2.00	2.00			2.00	1.00	2.00	2.00		1.00	1.00
	Actual	1.10			0.51 <sup>b</sup>		1.08	0.93	1.70	1.70			1.75	1.00	2.00	1.75		1.08	1.00
82 of 199	Expected	2.00				1.00	1.00	1.00	1.00	4.00			1.00	1.00	3.00				2.00
	Actual	1.81				0.92	0.99	1.02	0.86	3.79			0.92	1.00	2.82				1.74
83 of 199	Expected	2.00			1.00	1.00	2.00	2.00		3.00				2.00	1.00				3.00
	Actual	1.81			0.64 <sup>b</sup>	0.82	2.10	2.08		2.78				2.10	1.00				2.78
84 of 199	Expected	3.00			1.00	1.00	2.00	1.00		3.00				1.00		2.00	1.00		2.00
	Actual	3.00			0.52 <sup>b</sup>	0.96	2.03	1.09		2.89				1.14		1.77	0.00 <sup>a</sup>		1.80
85 of 199	Expected	2.00					2.00	1.00	1.00	3.00			1.00	1.00		3.00	1.00		1.00
	Actual	1.91					1.91	1.00	0.93	2.68			1.29	1.16		2.40	0.00 <sup>a</sup>		0.92
86 of 199	Expected	2.00			1.00		2.00		1.00	4.00			2.00			3.00	2.00		
	Actual	2.00			0.49 <sup>b</sup>		2.17		1.01	4.12			1.79			3.02	0.00 <sup>a</sup>		
87 of 199	Expected	1.00			1.00		1.00		2.00	5.00			2.00	1.00		2.00	1.00		1.00
	Actual	1.01			0.45 <sup>b</sup>		1.00		1.75	4.79			1.76	1.02		1.78	0.00 <sup>a</sup>		1.04
88 of 199	Expected	1.00					1.00		4.00	5.00	1.00		1.00	1.00		1.00	1.00		1.00
	Actual	0.99					1.00		2.64 <sup>c</sup>	5.09	1.01		0.87	1.03		0.72	0.00 <sup>a</sup>		0.98
89 of 199	Expected	1.00	1.00						3.00	5.00	1.00		1.00	1.00		2.00			1.00
	Actual	1.00	1.05						1.49 <sup>c</sup>	4.70	1.02		1.06	0.97		1.75			1.00
90 of 199	Expected		1.00		1.00			1.00	3.00	4.00	1.00		1.00		2.00	1.00		1.00	
	Actual		1.00		0.47 <sup>b</sup>			1.09	1.40 <sup>c</sup>	3.86	1.01		1.15		1.77	1.27		1.14	
91 of 199	Expected		1.00		1.00	1.00		1.00		3.00	1.00		2.00		4.00	2.00		1.00	
	Actual		1.02		0.43 <sup>b</sup>	0.91		1.00		2.99	0.94		1.74		3.79	1.72		1.06	
92 of 199	Expected		1.00		1.00	2.00		1.00	1.00	1.00	2.00		1.00		4.00	1.00		1.00	1.00
	Actual		0.90		0.46 <sup>b</sup>	1.91		1.06	0.58 <sup>c</sup>	0.96	1.88		0.95		3.80	1.09		1.00	0.64 <sup>c</sup>
93 of 199	Expected		1.00			4.00			1.00	1.00	3.00		1.00		1.00	1.00		1.00	3.00
	Actual		0.98			3.77			0.48 <sup>c</sup>	0.75	3.01		0.77		1.00	1.22		1.22	2.00 <sup>c</sup>
94 of 199	Expected		1.00			3.00	1.00		1.00	1.00	2.00	2.00			1.00	1.00		1.00	3.00
	Actual		1.19			3.19	1.22		0.40 <sup>c</sup>	0.96	1.82	2.01			1.00	1.16		0.97	2.43 <sup>c</sup>
95 of 199	Expected			1.00	2.00	2.00	1.00	1.00	1.00		2.00	2.00			1.00	1.00		1.00	2.00
	Actual			1.00	0.90 <sup>b</sup>	1.79	0.96	0.83	0.99		1.84	1.95			0.96	0.78		0.75	1.73
96 of 199	Expected	1.00		1.00	3.00	2.00	1.00	2.00	1.00			2.00			1.00	2.00			1.00
	Actual	1.00		0.98	1.37 <sup>b</sup>	1.76	1.05	1.86	0.98			1.92			0.93	1.71			1.07
97 of 199	Expected	1.00		1.00	3.00	4.00		3.00	1.00	1.00	1.00	0.00				2.00			
	Actual	1.12		0.97	1.44 <sup>b</sup>	3.88		2.77	0.92	1.09	1.16	0.00				2.00			
98 of 199	Expected	1.00			1.00	4.00		2.00		1.00	3.00					2.00			
	Actual	1.01			0.50 <sup>b</sup>	3.96		1.92		1.00	2.77					2.00			
99 of 199	Expected	1.00			2.00	4.00	1.00	1.00		1.00	3.00			1.00	1.00	2.00			
	Actual	1.04			0.89 <sup>b</sup>	3.79	1.06	1.00		0.94	2.95			1.05	0.89	1.74			
100 of 199	Expected				3.00	3.00	1.00	1.00		1.00	2.00	1.00		2.00	1.00	1.00		1.00	
	Actual				1.42 <sup>b</sup>	2.95	1.01	0.89		0.99	1.78	0.95		2.00	0.92	0.91		0.99	

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)
101 of 199	Expected				3.00	3.00	1.00		1.00			1.00		2.00	2.00	3.00		1.00	
	Actual				1.35 <sup>b</sup>	2.71	1.18		1.00			1.05		2.04	1.71	2.88		1.09	
102 of 199	Expected	2.00			2.00	3.00			1.00	1.00		1.00		1.00	2.00	3.00		1.00	
	Actual	1.76			0.72 <sup>b</sup>	2.87			1.00	0.96		1.03		1.07	1.73	2.71		1.05	
103 of 199	Expected	3.00			1.00	3.00		1.00	2.00	1.00	1.00		1.00		2.00	2.00			
	Actual	2.77			0.52 <sup>b</sup>	2.72		1.32	1.98	1.07	0.88		1.09		1.76	2.00			
104 of 199	Expected	3.00	1.00	1.00	1.00	2.00		1.00	1.00	2.00	1.00		2.00		1.00	1.00			
	Actual	2.75	1.11	1.00	0.47 <sup>b</sup>	1.77		1.12	1.07	1.85	0.98		1.91		0.99	1.16			
105 of 199	Expected	1.00	1.00	2.00	1.00	2.00			1.00	2.00	3.00		2.00			1.00			
	Actual	1.00	1.10	1.78	0.44 <sup>b</sup>	1.80			0.94	1.73	2.75		1.77			1.04			
106 of 199	Expected		2.00	2.00		3.00				3.00	3.00		1.00	1.00	1.00	1.00			
	Actual		2.10	1.70		2.71				2.76	2.72		1.00	1.09	1.00	1.00			
107 of 199	Expected		2.00	1.00		3.00	1.00			2.00	4.00		1.00	1.00	1.00				1.00
	Actual		1.93	0.92		3.00	1.23			1.70	3.80		1.07	1.14	1.02				0.97
108 of 199	Expected		3.00		1.00	1.00	2.00			2.00	3.00			1.00	1.00	1.00		1.00	1.00
	Actual		2.87		0.52 <sup>b</sup>	0.90	2.03			1.71	2.77			1.05	0.86	0.99		1.10	1.00
109 of 199	Expected		3.00		1.00	1.00	2.00			1.00	2.00		1.00	1.00		1.00		2.00	2.00
	Actual		3.02		0.55 <sup>b</sup>	0.99	2.01			0.92	1.88		0.78	1.13		1.00		1.98	1.77
110 of 199	Expected		3.00		2.00		2.00			1.00	1.00		1.00		1.00	1.00		3.00	2.00
	Actual		2.77		0.89 <sup>b</sup>		1.98			0.91	1.08		0.79		1.00	1.10		2.93	1.70
111 of 199	Expected		2.00		1.00		2.00		1.00	2.00	1.00		1.00		1.00		1.00	2.00	3.00
	Actual		1.78		0.57 <sup>b</sup>		2.07		0.82	1.76	1.12		0.90		1.08		0.00 <sup>a</sup>	2.00	2.75
112 of 199	Expected		1.00		1.00	1.00	2.00		2.00	4.00						2.00	1.00	1.00	2.00
	Actual		1.04		0.45 <sup>b</sup>	1.01	1.96		1.94	3.88						2.00	0.00 <sup>a</sup>	0.87	2.06
113 of 199	Expected	3.00				1.00	1.00		3.00	3.00					1.00	2.00	2.00		1.00
	Actual	3.08				1.18	1.16		2.00 <sup>c</sup>	2.70					1.01	1.73	0.00 <sup>a</sup>		1.00
114 of 199	Expected	3.00		1.00		2.00			2.00	2.00		1.00		1.00	1.00	3.00	1.00		
	Actual	2.76		1.00		1.76			0.67 <sup>c</sup>	1.78		1.11		1.11	1.09	2.77	0.00 <sup>a</sup>		
115 of 199	Expected	3.00		2.00		1.00	1.00			1.00		1.00		1.00	3.00	2.00	2.00		
	Actual	2.78		1.94		1.08	1.12			0.97		1.11		1.26	3.00	1.91	0.00 <sup>a</sup>		
116 of 199	Expected	1.00		1.00		1.00	3.00	1.00	1.00	1.00		1.00		1.00	2.00	2.00	1.00		1.00
	Actual	0.96		0.96		0.97	2.76	1.17	0.96	0.89		1.01		1.00	1.85	1.75	0.00 <sup>a</sup>		1.09
117 of 199	Expected	1.00		2.00			3.00	1.00	2.00		1.00	1.00		1.00	1.00	2.00	1.00		1.00
	Actual	0.92		1.81			2.73	1.14	0.66 <sup>c</sup>		0.94	1.01		1.00	1.00	1.81	0.00 <sup>a</sup>		1.13
118 of 199	Expected	1.00		2.00		1.00	2.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00		1.00			1.00
	Actual	1.00		1.84		0.97	1.73	1.16	0.59 <sup>c</sup>	1.74	0.88	1.05	0.95	1.04		0.99			1.05
119 of 199	Expected	2.00		2.00		1.00				3.00	1.00	1.00	1.00	1.00	4.00	1.00		1.00	
	Actual	2.00		1.76		0.98				2.83	0.89	0.97	1.01	0.97	3.95	0.90		1.00	
120 of 199	Expected	2.00	2.00	1.00						3.00	1.00		1.00		5.00			2.00	
	Actual	2.03	2.24	0.99						2.82	1.08		1.09		4.71			2.00	
121 of 199	Expected	1.00	2.00	2.00		1.00				1.00	1.00			1.00	5.00			2.00	1.00
	Actual	1.17	2.00	1.74		0.91				0.90	0.94			1.14	4.75			1.83	1.01
122 of 199	Expected	1.00	2.00	2.00		3.00				2.00	1.00		1.00	2.00		1.00		1.00	1.00
	Actual	0.93	1.93	1.89		2.72				1.87	0.81		0.97	2.00		1.05		1.07	0.95
123 of 199	Expected	1.00		3.00		4.00		1.00		2.00	1.00		2.00	2.00		1.00			
	Actual	1.00		2.77		3.83		1.02		1.89	0.83		1.76	2.06		1.08			
124 of 199	Expected			2.00		5.00		1.00		2.00	1.00		2.00	1.00		1.00			2.00
	Actual			2.00		4.73		1.06		1.84	0.92		1.77	1.20		1.13			1.32 <sup>c</sup>
125 of 199	Expected	1.00		2.00		4.00		2.00	1.00	1.00	1.00		2.00	1.00					2.00
	Actual	1.00		1.88		3.75		2.09	1.08	0.98	0.84		1.76	1.12					1.10 <sup>c</sup>

## Certificate of Analysis for NR-4764

**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)
126 of 199	Expected	1.00		3.00		3.00	1.00	2.00	1.00	1.00	1.00	1.00					1.00		2.00
	Actual	1.00		2.71		2.79	1.16	2.13	1.07	1.00	0.96	0.99					0.00 <sup>a</sup>		1.06 <sup>c</sup>
127 of 199	Expected	1.00		3.00		2.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00			1.00	1.00		
	Actual	1.00		2.73		1.71	2.16	1.03	1.80	0.96	0.92	1.03	1.04			1.06	0.00 <sup>a</sup>		
128 of 199	Expected	1.00		2.00	1.00		2.00	2.00	1.00		1.00	1.00	2.00			2.00	1.00	1.00	
	Actual	1.00		1.70	0.55 <sup>b</sup>		1.97	1.86	0.88		0.91	1.06	1.72			1.84	0.00 <sup>a</sup>	1.17	
129 of 199	Expected	1.00		1.00	2.00	1.00	1.00	1.00	1.00		3.00		2.00			2.00		2.00	
	Actual	1.08		1.00	0.85 <sup>b</sup>	1.02	1.11	1.29	0.90		2.81		1.70			1.84		2.13	
130 of 199	Expected	2.00			2.00	2.00	1.00	1.00			2.00		1.00	1.00		1.00	1.00	3.00	
	Actual	1.91			0.99 <sup>b</sup>	1.78	1.27	1.28			1.77		1.09	1.11		1.00	0.00 <sup>a</sup>	2.94	
131 of 199	Expected	2.00			2.00	2.00	1.00				3.00		2.00	1.00		1.00	1.00	2.00	
	Actual	2.00			0.85 <sup>b</sup>	1.85	1.05				2.90		1.92	0.93		1.06	0.00 <sup>a</sup>	2.18	
132 of 199	Expected	2.00		1.00	1.00	3.00					2.00		2.00	1.00		1.00	1.00	3.00	
	Actual	2.00		1.05	0.54 <sup>b</sup>	2.75					1.81		1.86	1.29		0.92	0.00 <sup>a</sup>	3.08	
133 of 199	Expected	1.00		1.00	1.00	3.00	1.00				2.00		2.00		1.00	1.00	1.00	2.00	
	Actual	1.09		0.98	0.49 <sup>b</sup>	2.76	1.03				1.76		1.93		1.00	1.04	0.00 <sup>a</sup>	2.15	
134 of 199	Expected			3.00	1.00	3.00	1.00				1.00		1.00	2.00	1.00	1.00	1.00	2.00	
	Actual			2.76	0.53 <sup>b</sup>	2.94	1.17				0.91		0.98	2.06	0.89	1.00	0.00 <sup>a</sup>	2.02	
135 of 199	Expected			2.00	2.00	1.00	3.00							3.00	1.00	2.00	1.00	1.00	1.00
	Actual			1.73	0.86 <sup>b</sup>	0.86	3.00							2.89	0.96	1.78	0.00 <sup>a</sup>	1.04	1.07
136 of 199	Expected	1.00		2.00	4.00		4.00							3.00		2.00			1.00
	Actual	1.15		1.84	1.74 <sup>b</sup>		4.12							3.00		1.93			1.05
137 of 199	Expected	1.00		1.00	2.00		4.00			2.00	1.00			1.00		2.00		1.00	2.00
	Actual	1.12		1.00	0.94 <sup>b</sup>		3.99			1.84	1.14			1.30		1.96		1.03	1.86
138 of 199	Expected	2.00	1.00	1.00	2.00		2.00			2.00	2.00				1.00	1.00		1.00	2.00
	Actual	1.86	1.16	0.96	1.00 <sup>b</sup>		2.17			1.78	2.14				1.07	1.00		0.87	1.78
139 of 199	Expected	1.00	1.00	1.00			1.00		1.00	3.00	3.00				2.00			2.00	2.00
	Actual	1.08	1.00	1.04			1.14		0.52 <sup>c</sup>	2.88	2.82				2.10			1.80	1.68 <sup>c</sup>
140 of 199	Expected	1.00	1.00				1.00		1.00	1.00	4.00				2.00	1.00		2.00	3.00
	Actual	1.06	1.13				1.08		0.50 <sup>c</sup>	0.92	3.84				1.80	0.98		2.00	2.29 <sup>c</sup>
141 of 199	Expected		1.00		1.00	1.00	1.00		2.00	2.00	3.00				1.00	2.00		1.00	2.00
	Actual		1.27		0.47 <sup>b</sup>	1.07	1.27		1.53 <sup>c</sup>	1.83	2.88				1.00	2.11		1.09	1.65 <sup>c</sup>
142 of 199	Expected		1.00		2.00	3.00	1.00	1.00	1.00	1.00	2.00					3.00		1.00	1.00
	Actual		1.06		0.99 <sup>b</sup>	2.78	1.10	1.05	0.95	0.98	1.77					2.78		1.00	1.01
143 of 199	Expected			3.00	1.00	3.00	1.00	1.00	2.00	1.00	1.00					2.00			1.00
	Actual			2.85	0.37 <sup>b</sup>	2.74	1.10	0.91	1.80	1.04	0.96					1.73			1.00
144 of 199	Expected			3.00	2.00	2.00		1.00	1.00	1.00	1.00					3.00			2.00
	Actual			2.74	0.46 <sup>b</sup>	1.96		1.19	1.00	1.03	0.95					2.86			2.00
145 of 199	Expected			3.00	1.00			1.00	1.00	1.00	2.00				1.00	1.00	1.00		4.00
	Actual			2.70	0.59 <sup>b</sup>			0.83	0.79	0.90	1.71				1.08	0.96	1.00		3.75
146 of 199	Expected			2.00	2.00		1.00		2.00	1.00	1.00	1.00			1.00	1.00	2.00		3.00
	Actual			2.00	0.59 <sup>b</sup>		1.03		1.83	0.91	1.20	1.11			1.14	1.11	1.76		2.90
147 of 199	Expected				1.00	1.00	2.00		2.00	1.00	2.00	1.00			2.00	2.00	1.00		2.00
	Actual				0.44 <sup>b</sup>	1.00	2.06		1.81	1.03	1.81	1.01			1.86	1.71	0.95		1.70
148 of 199	Expected			1.00		1.00	2.00		2.00	4.00	1.00	1.00	1.00	1.00	1.00	2.00			
	Actual			0.96		0.99	2.16		1.78	3.77	0.90	1.02	0.89	1.14	1.00	1.78			
149 of 199	Expected			1.00		3.00	3.00			5.00	1.00		1.00	2.00		1.00			
	Actual			0.97		2.78	3.00			4.79	0.82		0.83	2.02		1.01			
150 of 199	Expected					3.00	3.00		2.00	5.00	1.00		1.00	1.00		1.00			
	Actual					2.87	3.00		0.96 <sup>c</sup>	4.74	0.78		0.86	1.06		1.04			

**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)
151 of 199	Expected				1.00	3.00	2.00		2.00	2.00	1.00			1.00		2.00	1.00		
	Actual				0.53 <sup>b</sup>	2.86	2.03		0.75 <sup>c</sup>	1.79	1.00			1.06		1.81	0.00 <sup>a</sup>		
152 of 199	Expected			1.00	2.00	1.00	3.00		2.00	1.00	1.00		1.00		1.00	2.00	1.00		1.00
	Actual			1.21	0.98 <sup>b</sup>	1.00	3.14		0.94 <sup>c</sup>	0.84	0.83		1.09		1.03	1.99	0.00 <sup>a</sup>		1.12
153 of 199	Expected			2.00	2.00	1.00	2.00		1.00		1.00	1.00	1.00	1.00	1.00	2.00	1.00		1.00
	Actual			2.00	0.88 <sup>b</sup>	0.89	2.02		0.98		0.92	0.92	0.75	1.04	0.89	1.75	0.00 <sup>a</sup>		0.82
154 of 199	Expected			2.00	1.00		3.00		1.00			2.00	1.00	1.00	3.00	2.00			1.00
	Actual			2.00	0.51 <sup>b</sup>		3.15		1.04			1.92	0.00	1.05	2.70	1.88			0.87
155 of 199	Expected		1.00	1.00	1.00	1.00	2.00	1.00	1.00			2.00		2.00	2.00	3.00			
	Actual		1.12	0.96	0.57 <sup>b</sup>	1.05	1.99	1.13	1.02			1.81		2.00	1.86	2.78			
156 of 199	Expected		2.00		1.00	1.00	2.00	1.00	1.00		1.00	1.00	1.00	1.00	2.00	3.00			
	Actual		2.00		0.46 <sup>b</sup>	1.03	2.05	1.13	1.02		0.91	1.00	0.92	1.11	1.88	2.71			
157 of 199	Expected	1.00	1.00		2.00	1.00	2.00	1.00	1.00		1.00		2.00	1.00	1.00	3.00			
	Actual	1.03	1.00		0.98 <sup>b</sup>	1.06	1.94	1.01	0.93		0.86		1.74	1.03	0.97	2.79			
158 of 199	Expected	1.00	1.00		2.00	2.00	1.00		1.00		1.00		2.00	1.00	1.00	3.00		1.00	
	Actual	1.00	1.00		0.89 <sup>b</sup>	1.86	1.07		0.86		0.84		1.91	1.04	0.95	2.78		0.95	
159 of 199	Expected	1.00		1.00	1.00	2.00	3.00						1.00	1.00	1.00	4.00		1.00	1.00
	Actual	0.97		0.97	0.58 <sup>b</sup>	1.70	2.90						0.83	1.04	1.01	3.75		1.00	0.96
160 of 199	Expected	1.00	1.00	1.00	1.00	3.00	2.00					2.00	1.00		1.00	2.00		1.00	1.00
	Actual	1.00	1.08	1.03	0.60 <sup>b</sup>	2.79	2.06					1.84	0.85		0.97	1.77		0.94	0.96
161 of 199	Expected	1.00	2.00	2.00		2.00	1.00					2.00	2.00	2.00	2.00				1.00
	Actual	1.21	2.08	1.91		1.99	1.28					1.83	2.00	2.05	1.80				0.96
162 of 199	Expected	1.00	2.00	2.00		2.00						2.00	3.00		2.00	2.00			1.00
	Actual	1.17	2.00	1.89		1.75						1.86	2.76		2.08	1.86			1.05
163 of 199	Expected		1.00	2.00		2.00		1.00	1.00				2.00	1.00	2.00	3.00			1.00
	Actual		1.06	2.00		1.91		0.96	1.06				1.74	1.13	1.86	2.78			1.00
164 of 199	Expected		1.00	2.00		3.00		1.00	1.00	1.00			2.00	1.00	2.00	2.00			1.00
	Actual		1.14	1.77		2.94		1.09	0.91	0.91			1.82	1.06	1.82	1.72			1.00
165 of 199	Expected		1.00	3.00		2.00		1.00	2.00	1.00				2.00	1.00	2.00	1.00		
	Actual		1.05	2.83		1.90		0.93	1.96	0.89				2.00	1.14	1.83	0.00 <sup>a</sup>		
166 of 199	Expected		1.00	4.00		1.00		1.00	2.00	1.00	1.00			1.00	3.00	1.00	1.00		
	Actual		1.11	3.82		0.97		1.13	1.70	0.97	1.00			1.19	2.76	0.87	0.00 <sup>a</sup>		
167 of 199	Expected			5.00				1.00	3.00	1.00	1.00	1.00		1.00	2.00		1.00		1.00
	Actual			4.97				1.05	3.04	0.90	1.11	0.84		1.16	2.00		0.00 <sup>a</sup>		0.95
168 of 199	Expected		1.00	4.00		1.00		1.00	2.00	1.00	1.00	1.00	1.00		2.00				2.00
	Actual		1.27	3.80		1.09		1.00	1.99	0.81	0.93	0.72	0.93		1.86				1.72
169 of 199	Expected		1.00	6.00		1.00				2.00		1.00	1.00		2.00				2.00
	Actual		1.32	5.80		1.08				1.91		1.00	1.03		2.06				1.98
170 of 199	Expected		1.00	5.00	1.00	1.00				2.00	1.00		1.00	1.00	2.00				2.00
	Actual		1.00	4.74	0.45 <sup>b</sup>	1.01				1.88	0.98		0.81	1.05	1.70				1.72
171 of 199	Expected			5.00	1.00	1.00		1.00	1.00	2.00	1.00			1.00	2.00	1.00			1.00
	Actual			4.79	0.46 <sup>b</sup>	1.05		1.06	0.95	1.73	0.92			1.05	1.84	1.00			0.98
172 of 199	Expected	1.00		2.00	1.00	1.00	3.00	1.00	1.00	1.00	1.00				2.00	1.00	1.00		1.00
	Actual	1.04		1.83	0.50 <sup>b</sup>	0.94	3.00	1.22	0.95	0.97	0.83				1.98	1.00	0.00 <sup>a</sup>		0.93
173 of 199	Expected	1.00		1.00		1.00	4.00		1.00	1.00			1.00		2.00	2.00	1.00		2.00
	Actual	1.07		0.97		0.99	3.86		1.02	0.99			1.02		1.93	1.87	0.00 <sup>a</sup>		2.00
174 of 199	Expected	1.00			1.00		4.00			2.00			1.00		1.00	3.00	1.00		3.00
	Actual	1.02			0.35 <sup>b</sup>		3.93			1.73			1.03		1.00	2.77	0.00 <sup>a</sup>		2.81
175 of 199	Expected	1.00		1.00	2.00	1.00	2.00		1.00	2.00			2.00			3.00			2.00
	Actual	1.00		1.04	0.83 <sup>b</sup>	0.96	2.16		1.00	1.72			1.86			2.72			2.03

**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)
176 of 199	Expected	2.00		1.00	1.00	1.00	1.00		2.00	1.00	1.00		1.00		1.00	3.00			1.00
	Actual	2.00		0.81	0.49 <sup>b</sup>	1.11	1.23		1.70	0.96	0.82		1.14		1.05	2.73			1.12
177 of 199	Expected	3.00		2.00	2.00	1.00			2.00		1.00	1.00	1.00		2.00	2.00			
	Actual	3.00		2.09	0.92 <sup>b</sup>	1.08			1.80		0.87	1.14	0.87		2.11	1.94			
178 of 199	Expected	3.00		1.00	2.00		1.00		2.00		1.00	1.00			2.00	2.00		1.00	1.00
	Actual	2.89		1.06	0.95 <sup>b</sup>		1.15		1.77		0.86	1.13			2.00	1.85		1.03	1.05
179 of 199	Expected	2.00	1.00	2.00	2.00		2.00			2.00		1.00			1.00	2.00		1.00	1.00
	Actual	1.91	1.23	1.73	0.99 <sup>b</sup>		2.15			1.87		1.01			0.93	2.00		0.91	1.08
180 of 199	Expected	1.00	1.00	2.00			2.00			2.00	1.00				1.00	3.00		1.00	3.00
	Actual	1.00	1.14	1.71			2.27			1.85	0.78				1.05	2.73		1.06	2.72
181 of 199	Expected		1.00	2.00			4.00	1.00		2.00	2.00				1.00	1.00			3.00
	Actual		1.09	1.96			4.10	1.18		2.14	1.78				0.95	1.00			1.92 <sup>c</sup>
182 of 199	Expected			1.00			4.00	1.00		1.00	3.00		1.00		2.00	1.00			3.00
	Actual			0.85			3.80	1.09		0.99	2.79		0.98		2.00	1.05			1.84 <sup>c</sup>
183 of 199	Expected			2.00	2.00		4.00	2.00		1.00	2.00		1.00		2.00	1.00			
	Actual			2.13	0.77 <sup>b</sup>		4.22	2.09		0.97	1.97		1.00		1.77	0.99			
184 of 199	Expected			2.00	3.00	2.00	2.00	1.00		2.00	1.00		1.00		1.00	2.00			
	Actual			2.00	1.43 <sup>b</sup>	1.91	2.01	1.00		1.78	0.98		0.92		1.02	1.73			
185 of 199	Expected	2.00		2.00	2.00	2.00	1.00	2.00		1.00				2.00	1.00	2.00			
	Actual	2.16		2.00	0.90 <sup>b</sup>	2.16	1.21	1.71		1.00				1.94	1.06	1.74			
186 of 199	Expected	2.00	1.00	1.00		2.00	2.00	1.00		2.00				2.00	1.00	2.00			1.00
	Actual	2.00	0.94	1.15		2.02	2.05	1.07		1.76				1.96	0.97	1.76			1.05
187 of 199	Expected	1.00	1.00	3.00		1.00	1.00	1.00	1.00	1.00				2.00	1.00	1.00		1.00	1.00
	Actual	1.00	1.01	2.76		1.03	1.10	1.16	0.94	0.85				1.88	0.99	0.98		1.00	1.00
188 of 199	Expected		1.00	5.00		1.00	1.00		1.00	1.00	1.00				1.00	1.00		2.00	2.00
	Actual		0.89	5.03		1.06	1.02		0.95	0.88	0.92				0.92	1.18		2.22	1.93
189 of 199	Expected	1.00		5.00		1.00	1.00		1.00		1.00				1.00			2.00	1.00
	Actual	1.00		5.04		1.15	1.08		1.12	1.08					1.10			1.86	0.88
190 of 199	Expected	1.00		4.00	1.00		1.00		2.00	2.00				2.00	1.00	1.00		1.00	1.00
	Actual	1.07		3.74	0.43 <sup>b</sup>		1.23		1.76	1.75				2.00	0.97	1.04		0.90	0.96
191 of 199	Expected	1.00		2.00	2.00		1.00		1.00		2.00		1.00	2.00		2.00	1.00	1.00	
	Actual	1.06		1.89	0.96 <sup>b</sup>		1.22		0.99		1.75		0.88	2.00		1.87	0.00 <sup>a</sup>	1.00	
192 of 199	Expected				2.00	1.00	1.00		1.00	2.00	2.00		1.00	2.00	1.00	2.00	2.00		
	Actual				0.88 <sup>b</sup>	1.02	1.10		0.90	1.92	1.72		1.00	1.74	0.86	1.70	0.00 <sup>a</sup>		
193 of 199	Expected			2.00	1.00	1.00	3.00		1.00	3.00	1.00		1.00		1.00	1.00	2.00		
	Actual			2.00	0.50 <sup>b</sup>	1.02	3.05		0.82	2.89	0.94		0.89		1.01	0.83	0.00 <sup>a</sup>		
194 of 199	Expected	1.00		2.00		1.00	3.00		1.00	3.00							2.00		4.00
	Actual	1.16		2.00		1.13	3.29		0.94	2.71							0.00 <sup>a</sup>		2.66 <sup>c</sup>
195 of 199	Expected	1.00		2.00			1.00		4.00	3.00							1.00		5.00
	Actual	0.71		2.00			1.18		3.50 <sup>c</sup>	2.77							0.00 <sup>a</sup>		3.32 <sup>c</sup>
196 of 199	Expected	1.00							4.00	5.00			1.00		1.00				5.00
	Actual	1.24							3.68 <sup>c</sup>	5.05			1.16		1.00				2.90 <sup>c</sup>
197 of 199	Expected				1.00				4.00	4.00			3.00	1.00	2.00				2.00
	Actual				1.00 <sup>b</sup>				2.34 <sup>c</sup>	3.93			3.39	1.04	1.87				1.74 <sup>c</sup>
198 of 199	Expected		2.00	1.00	1.00				1.00	2.00	2.00		3.00	1.00	3.00				1.00
	Actual		2.17	0.99	0.47 <sup>b</sup>				0.94	2.00	1.84		2.94	1.10	2.81				1.00
199 of 199	Expected	1.00	2.00	2.00	1.00						2.00		2.00	1.00	1.00				1.00
	Actual	1.15	2.20	2.13	0.45 <sup>b</sup>						1.84		1.83	1.19	0.98				1.00

<sup>a</sup>Trp was completely destroyed during hydrolysis

<sup>b</sup>Cys was partially destroyed during hydrolysis

<sup>c</sup>Val-Ile, Val-Val, Ile-Ile and/or Ile-Val bonds were only partially destroyed during hydrolysis



**Date:** 23 AUG 2007

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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