

**Peptide Array, Human Coronavirus OC43 (HCoV-OC43) Spike (S) Protein**
**Catalog No. NR-3011**

This reagent is the tangible property of the U.S. Government.

**Product Description:** The 226-peptide array spans the spike (S) protein of the human coronavirus OC43 (HCoV-OC43) (GenPept: NP\_937950). Peptides are 17- or 18-mers, with 11 amino acid overlaps.

**Lot: 311006MSC**

The following information applies to all peptides:

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

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

Table 1							
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydropathy	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
1 of 226	07/31/06	17	1 MFLILLISLPTAFAVIG 17	1818.0	2.38	80.0%	80%
2 of 226	05/12/06	17	7 ISLPTAFAVIGDLKCTS 23	1734.9	1.02	80.9%	85%
3 of 226	07/10/06	17	13 FAVIGDLKCTSDTSYIN 29	1845.9	0.29	94.7%	80%
4 of 226	08/09/06	17	19 LKCTSDTSYINDKDTGP 35	1856.8	-1.06	99.4%	80%
5 of 226	05/12/06	17	25 TSYINDKDTGPPPISTD 41	1819.8	-1.12	80.3%	80%
6 of 226	05/12/06	17	31 KDTGPPPISTDVDTVN 47	1755.8	-0.81	88.9%	80%
7 of 226	07/10/06	17	37 PISTDTVDVTNGLGTY 53	1814.8	-0.14	81.1%	85%
8 of 226	05/12/06	17	43 VDVNTGLGTYVLDREV 59	1946.0	0.19	81.8%	90%
9 of 226	08/28/06	17	49 LGTYVLDREVYLNNTLF 65	2050.1	0.50	89.7%	85%
10 of 226	10/13/06	17	55 LDRVYLNNTLFLNGYYP 71	2061.0	-0.01	92.7%	90%
11 of 226	05/12/06	17	61 NNTLFLNGYYPSTGTY 77	1897.8	-0.43	80.0%	95%
12 of 226	05/12/06	17	67 NGYYPSTGTYRNMALK 83	1921.9	-1.01	90.8%	80%
13 of 226	09/14/06	17	73 SGTYRNMALKGSVLLS 89	1782.9	0.08	93.9%	85%
14 of 226	08/28/06	17	79 NMALKGSVLLSRLWFKP 95	1959.1	0.33	80.0%	85%
15 of 226	09/14/06	17	85 SVLLSRLWFKPPFLSDF 101	2051.1	0.55	96.7%	75%
16 of 226	09/26/06	17	91 LWFKPPFLSDFINGIFA 107	2011.0	0.79	88.1%	70%
17 of 226	07/10/06	17	97 FLSDFINGIFAKVKNTK 113	1941.0	0.18	98.9%	80%
18 of 226	07/20/06	17	103 NGIFAKVKNTKVIKDRV 119	1929.1	-0.32	86.8%	75%
19 of 226	07/20/06	17	109 VKNTKVIKDRVMYSEFP 125	2053.1	-0.55	99.7%	85%
20 of 226	06/06/06	17	115 IKDRVMYSEFPAITIGS 131	1926.0	0.19	84.0%	85%
21 of 226	07/15/06	17	121 YSEFPAITIGSTFVNTS 137	1832.9	0.34	81.5%	90%
22 of 226	07/02/06	17	127 ITIGSTFVNTSYSVVVQ 143	1813.9	0.91	>80.0%	85%
23 of 226	07/27/06	17	133 FVNTSYSVVVQPRNTINS 149	1910.0	0.14	88.7%	85%
24 of 226	10/15/06	17	139 SVVVQPRNTINSTQDGY 155	1876.9	-0.66	95.8%	90%
25 of 226	06/23/06	17	145 RTINSTQDGYNKLGQLL 161	1920.0	-0.84	88.3%	90%
26 of 226	07/23/06	17	150 TQDGYNKLGQLLEVSV 166	1865.9	-0.16	98.9%	90%
27 of 226	09/02/06	17	156 KLQGLLEVSVQCYNMCE 172	1955.9	0.16	89.8%	80%

**Table 1**

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydropathy	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
28 of 226	07/23/06	17	162 EVSVCQYNMCEYPQTIC 178	2008.8	-0.05	86.1%	85%
29 of 226	08/28/06	17	168 YNMCEYPQTICHPNLGN 184	1995.8	-0.73	87.1%	85%
30 of 226	05/18/06	17	174 PQTICHPNLGNHRKELW 190	2042.0	-1.14	87.0%	70%
31 of 226	06/06/06	17	180 PNLGNHRKELWHLDTGV 196	1985.0	-1.01	91.1%	80%
32 of 226	09/04/06	17	186 RKELWHLDTGVVSCLYK 202	2046.0	-0.25	83.5%	80%
33 of 226	07/11/06	17	192 LDTGVVSCLYKRNFTYD 208	1992.9	-0.16	84.9%	85%
34 of 226	07/09/06	17	198 SCLYKRNFTYDVNADYL 214	2083.9	-0.52	91.5%	90%
35 of 226	07/09/06	17	204 NFTYDVNADYLYFHFYQ 220	2219.0	-0.49	87.7%	95%
36 of 226	06/23/06	17	210 NADYLYFHFYQEGGTFY 226	2133.9	-0.58	97.1%	90%
37 of 226	07/23/06	17	216 FHFYQEGGTFYAYFTDT 232	2092.9	-0.44	85.0%	80%
38 of 226	07/12/06	17	222 GGTFFYAYFTDTGVVTKF 238	1872.9	0.27	80.0%	80%
39 of 226	09/26/06	17	228 YFTDTGVVTKFLFNYYL 244	2026.0	0.74	95.8%	80%
40 of 226	09/14/06	17	234 VVTKFLFNYYLGMALSH 250	1938.0	1.15	91.2%	75%
41 of 226	09/14/06	17	240 FNVYLGMAISHYYVMPL 256	2017.0	0.87	95.2%	85%
42 of 226	09/14/06	17	246 MALSHYYVMPLTCSNKV 262	1955.9	0.41	82.1%	85%
43 of 226	10/16/06	17	252 YVMPLTCSNKVKNFTL 268	1913.9	0.17	92.7%	85%
44 of 226	09/13/06	17	258 CNSKVKNFTLEYWVTP 274	1984.9	-0.42	81.5%	65%
45 of 226	06/06/06	17	264 NGFTLEYWVTPVTSRQY 280	2074.0	-0.52	88.4%	85%
46 of 226	07/26/06	17	270 YWVTPVTSRQYLLAFNQ 286	2099.1	-0.12	80.5%	80%
47 of 226	07/09/06	17	276 TSRQYLLAFNQDGIIFN 292	1999.0	-0.07	95.6%	85%
48 of 226	07/02/06	17	282 LAFNQDGIIFNAVDCMS 298	1856.8	0.70	94.7%	80%
49 of 226	09/18/06	17	288 GIIFNAVDCMSDFMSEI 304	1890.8	0.91	>80.0%	90%
50 of 226	07/06/06	17	294 VDCMSDFMSEIKCKTQS 310	1950.8	-0.27	82.2%	85%
51 of 226	07/26/06	17	300 FMSEIKCKTQSIAPPTG 316	1836.9	-0.20	80.2%	80%
52 of 226	06/23/06	17	306 CKTQSIAPPTGVYELNG 322	1776.8	-0.30	94.5%	85%
53 of 226	05/18/06	17	312 APPTGVYELNGYTVQPI 328	1817.9	-0.09	86.0%	65%
54 of 226	05/18/06	17	318 YELNGYTVQPIADVYRR 334	2056.0	-0.65	82.2%	85%
55 of 226	09/14/06	17	324 TVQPIADVYRRKLNLPN 340	1996.1	-0.58	94.8%	75%
56 of 226	07/18/06	17	330 DVYRRKLNLPNCNIEAW 346	2103.0	-0.80	94.0%	90%
57 of 226	07/09/06	17	336 LNLPCNIEAWLNDKSV 352	1941.9	-0.22	82.2%	90%
58 of 226	05/24/06	17	342 NIEAWLNDKSVSPPLNW 358	1982.0	-0.58	96.5%	85%
59 of 226	06/08/06	17	348 NDKSVSPPLNWERKTF 364	2004.0	-1.34	85.6%	85%
60 of 226	08/22/06	17	354 SPLNWERKTFNCNFMN 370	2086.9	-0.99	91.7%	90%
61 of 226	07/27/06	17	360 RKTFSNCNFMNSSLMSF 376	2012.9	-0.25	99.4%	80%
62 of 226	07/06/06	17	366 CNFMSSLMSFIQADSF 382	1940.8	0.45	84.8%	90%
63 of 226	10/10/06	17	372 SLMSFIQADSFTCNNID 388	1904.8	0.24	>80.0%	90%
64 of 226	05/24/06	17	377 IQADSFTCNNIDAAKIY 393	1885.9	0.00	98.0%	85%
65 of 226	07/18/06	17	383 TCNNIDAAKIYGMCFSS 399	1836.8	0.23	87.5%	85%
66 of 226	09/14/06	17	389 AAKIYGMCFSSITDKF 405	1893.9	0.69	88.2%	85%
67 of 226	09/27/06	17	395 MCFSSITDKFAIPNGR 411	1898.9	0.33	88.2%	85%
68 of 226	05/24/06	17	401 TIDKFAIPNGRKVDLQL 417	1927.1	-0.21	80.4%	80%
69 of 226	05/24/06	17	407 IPNGRKVDLQLGNLGYL 423	1869.0	-0.15	97.6%	90%
70 of 226	05/24/06	17	413 VDLQLGNLGYLQSFNRY 429	1999.0	-0.24	95.4%	85%
71 of 226	05/24/06	17	419 NLGYLQSFNYRIDTTAT 435	1975.9	-0.45	91.6%	90%
72 of 226	09/04/06	17	425 SFNYRIDTTATSCQLYY 441	2044.9	-0.42	80.3%	85%
73 of 226	09/26/06	17	431 DTTATSCQLYYNLPAA 447	1844.8	-0.33	89.2%	90%
74 of 226	05/24/06	17	437 CQLYYNLPAAVSVSRF 453	1943.9	0.24	80.8%	90%
75 of 226	07/18/06	17	443 LPAANVSVSRFNPSTWN 459	1858.9	-0.21	80.3%	80%
76 of 226	05/29/06	17	449 SVSRFNPSTWNKRFGFI 465	2042.0	-0.52	90.5%	80%
77 of 226	05/29/06	17	455 PSTWNKRFGFIEDSVFK 471	2057.0	-0.64	83.0%	80%
78 of 226	05/29/06	17	461 RFGFIEDSVFKPRPAGV 477	1921.0	-0.09	89.5%	85%

Table 1							
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydropathy	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
79 of 226	05/29/06	17	467 DSVFKPRPAGVLTNHDV 483	1851.0	-0.36	83.8%	85%
80 of 226	05/29/06	17	473 RPAGVLTNHDVVYAQHC 489	1878.9	-0.17	96.9%	85%
81 of 226	05/29/06	17	479 TNHDVVYAQHCFKAPKN 495	1970.9	-0.85	80.5%	80%
82 of 226	05/29/06	17	485 YAQHCFKAPKNFCPCKL 501	1996.9	-0.35	96.7%	90%
83 of 226	06/20/06	17	491 KAPKNFCPCKLNGSCVG 507	1764.8	-0.20	88.7%	85%
84 of 226	05/29/06	17	497 CPCKLNGSCVSGPGKN 513	1619.7	-0.34	80.8%	80%
85 of 226	10/13/06	17	503 GSCVSGPGKNNIGTC 519	1506.6	-0.21	91.3%	85%
86 of 226	05/29/06	17	509 GPGKNNIGTCPAGTNY 525	1619.7	-0.79	97.7%	85%
87 of 226	05/29/06	17	515 GIGTCPAGTNYLTCDNL 531	1711.7	0.13	81.5%	80%
88 of 226	09/14/06	17	521 AGTNYLTCDNLCTPDI 537	1809.8	-0.12	84.3%	85%
89 of 226	07/18/06	17	527 TCDNLCTPDPITFKATG 543	1795.8	-0.17	85.8%	85%
90 of 226	07/29/06	17	533 TPDITFKATGTYKCPQ 549	1866.9	-0.74	90.6%	85%
91 of 226	06/20/06	17	539 FKATGTYKCPQTKSLVG 555	1827.9	-0.39	95.7%	80%
92 of 226	10/02/06	17	545 YKCPQTKSLVGIGEHCS 561	1848.9	-0.38	93.9%	75%
93 of 226	05/29/06	17	551 KSLVGIGEHCSGLAVKS 567	1683.9	0.39	81.1%	80%
94 of 226	09/27/06	17	557 GEHCSGLAVKSDYCGGN 573	1695.7	-0.43	88.3%	75%
95 of 226	08/28/06	17	563 LAVKSDYCGGNSCTCRP 579	1772.7	-0.24	84.5%	80%
96 of 226	05/29/06	17	569 YCGGNSCTCRPQAFGLW 585	1861.8	-0.12	95.0%	85%
97 of 226	05/29/06	17	575 CTRPQAFGLWSADSC 591	1856.8	0.28	86.9%	85%
98 of 226	05/29/06	17	581 AFLGWSADSC 597	1813.8	-0.13	86.2%	80%
99 of 226	05/29/06	17	587 ADSC 603	1857.8	0.26	98.5%	85%
100 of 226	07/14/06	17	593 GDCNIFANFILHDVNS 609	1905.9	0.06	84.4%	85%
101 of 226	06/20/06	17	599 FANFILHDVNSGLTCS 615	1837.9	0.54	87.2%	85%
102 of 226	10/13/06	17	605 HDVNSGLTCS 621	1801.8	-0.70	81.1%	80%
103 of 226	07/18/06	17	611 LTCSTDLQKANTDIILG 627	1804.9	0.21	86.9%	85%
104 of 226	07/15/06	17	617 LQKANTDIILGVCVNYD 633	1877.9	0.32	88.5%	85%
105 of 226	08/02/06	17	623 DIILGVCVNYDLYGILG 639	1838.9	1.26	>80.0%	75%
106 of 226	05/29/06	17	629 CVNYDLYGILGQGFIVE 645	1901.9	0.74	>80.0%	85%
107 of 226	09/22/06	17	635 YGILGQGFIVEVNATYY 651	1905.9	0.56	>80.0%	90%
108 of 226	05/29/06	17	641 GIFVEVNATYYNSWQNL 657	2016.9	-0.09	>80.0%	65%
109 of 226	07/26/06	17	647 NATYYNSWQNL 663	2021.8	-1.12	94.1%	90%
110 of 226	05/29/06	17	653 SWQNL 669	2045.9	-0.81	83.7%	85%
111 of 226	05/29/06	17	659 YDSNGLYGF 675	2066.9	-1.27	82.9%	90%
112 of 226	05/29/06	17	665 LYGF 681	2152.1	-0.32	83.0%	75%
113 of 226	08/09/06	17	671 YITNRTF 687	2066.0	-0.15	86.8%	80%
114 of 226	08/28/06	17	677 FMIRSCY 693	1901.9	0.46	87.2%	80%
115 of 226	05/29/06	17	683 YSGRV 699	1749.8	-0.41	80.6%	85%
116 of 226	05/29/06	17	689 AAFHANS 705	1856.9	0.21	89.2%	75%
117 of 226	05/29/06	17	695 SSEPALL 711	2000.0	0.16	80.6%	80%
118 of 226	05/29/06	17	701 LFRNIKC 717	2101.1	-0.31	80.1%	85%
119 of 226	05/29/06	17	707 CNYVF 723	2023.0	-0.49	80.0%	90%
120 of 226	05/29/06	17	713 NSL 729	2071.0	-0.58	80.2%	90%
121 of 226	09/22/06	17	719 LQP 735	1914.9	0.48	81.5%	90%
122 of 226	09/26/06	17	725 FDSYL 741	1835.8	0.58	88.9%	90%
123 of 226	09/22/06	17	731 CVVN 747	1786.8	0.44	>80.0%	75%
124 of 226	07/26/06	17	737 NST 753	1651.8	0.31	>80.0%	85%
125 of 226	08/02/06	17	743 VQ 759	1808.8	0.26	94.3%	85%
126 of 226	05/30/06	17	749 TVG 765	1946.9	-1.18	94.4%	85%
127 of 226	06/20/06	17	755 CVD 771	1882.9	-0.97	87.3%	80%
128 of 226	05/30/06	17	761 NRR 777	2016.0	-1.06	81.1%	80%

**Table 1**

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydropathy	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
129 of 226	05/30/06	17	767 AITTYRFTNFEPFTVN 783	1977.0	-0.13	80.0%	90%
130 of 226	07/26/06	17	773 RFTNFEPFTVNSVNDL 789	1985.9	-0.35	95.5%	85%
131 of 226	05/30/06	17	779 PFTVNSVNDLSEPVGGL 795	1743.8	0.16	89.5%	90%
132 of 226	05/30/06	17	785 VNSLSEPVGGLYEIQIP 801	1841.9	0.08	92.0%	90%
133 of 226	06/20/06	17	791 PVGGLYEIQIPSEFTIG 807	1818.9	0.39	83.4%	90%
134 of 226	05/30/06	17	797 EIQIPSEFTIGNMEEFI 813	1995.9	0.06	80.5%	90%
135 of 226	07/19/06	17	803 EFTIGNMEEFIQTSSPK 819	1956.9	-0.58	82.3%	70%
136 of 226	10/05/06	17	809 MEEFIQTSSPKVTIDCA 825	1897.9	-0.02	91.1%	95%
137 of 226	07/15/06	17	815 TSSPKVTIDCAAFVCGD 831	1712.8	0.49	81.7%	95%
138 of 226	07/18/06	17	821 TIDCAAFVCGDYAACKS 837	1736.7	0.71	81.2%	90%
139 of 226	10/10/06	17	827 FVCGDYAACKSQLVEYG 843	1851.8	0.29	90.2%	85%
140 of 226	07/26/06	17	833 AACKSQLVEYGSFCDNI 849	1846.8	0.16	85.1%	85%
141 of 226	05/30/06	17	839 LVEYGSFCDNINAILTE 855	1899.9	0.42	88.7%	90%
142 of 226	05/30/06	17	845 FCDNINAILTEVNELLD 861	1934.9	0.38	80.8%	90%
143 of 226	09/13/06	17	851 AILTEVNELLDTTQLQV 867	1899.0	0.40	82.8%	90%
144 of 226	08/09/06	17	857 NELLDTTQLQVANSLMN 873	1902.9	-0.21	90.8%	90%
145 of 226	07/15/06	17	863 TQLQVANSLMNGVTLST 879	1775.9	0.32	>80.0%	85%
146 of 226	05/30/06	17	869 NSLMNGVTLSTKLKDG 885	1775.9	-0.02	90.7%	90%
147 of 226	05/30/06	17	875 VTLSTKLKDGVNFVDD 891	1863.9	-0.29	83.8%	90%
148 of 226	08/07/06	17	881 LKDGVNFVDDINFSPV 897	1891.9	-0.07	87.3%	90%
149 of 226	07/26/06	17	887 FNVDDINFSPVLGCLGS 903	1795.8	0.62	91.9%	90%
150 of 226	07/10/06	17	893 NFSPVLGCLGSECSKAS 909	1697.7	0.29	95.5%	85%
151 of 226	08/28/06	17	899 GCLGSECSKASSRAIE 915	1683.7	-0.19	90.1%	90%
152 of 226	05/30/06	17	905 CSKASSRAIEDLLFDK 921	1868.9	-0.29	94.8%	85%
153 of 226	05/30/06	17	911 RSAIEDLLFDKVKLSDV 927	1947.0	0.06	83.4%	85%
154 of 226	05/30/06	17	917 LLDKVKLSDVGFVEAY 933	1942.0	0.62	83.7%	80%
155 of 226	08/03/06	17	923 KLSDVGFVEAYNNCTGG 939	1772.8	-0.15	97.6%	85%
156 of 226	05/30/06	17	929 FVEAYNNCTGGAEIRDL 945	1870.8	-0.20	86.1%	85%
157 of 226	05/30/06	17	935 NCTGGAEIRDLICVQSY 951	1840.8	0.10	91.0%	90%
158 of 226	10/11/06	17	941 EIRDLICVQSYKGIKVL 957	1976.1	0.39	89.0%	70%
159 of 226	05/30/06	17	947 CVQSYKGIKVLPLLSE 963	1873.0	0.32	96.4%	90%
160 of 226	05/30/06	17	953 GIKVLPLLSENQISGY 969	1827.0	0.19	87.6%	85%
161 of 226	07/18/06	17	959 PLLSENQISGYTLAATS 975	1763.9	0.11	91.4%	90%
162 of 226	07/18/06	17	964 NQISGYTLAATSASLFP 980	1739.9	0.36	92.9%	90%
163 of 226	10/10/06	17	970 TLAATSASLFPPLWAAA 986	1690.9	1.11	97.3%	85%
164 of 226	05/30/06	17	976 ASLFPPLWTAAGVPFYL 992	1823.0	1.24	80.4%	80%
165 of 226	05/30/06	17	982 WTAAGVPFYLNVQYRI 998	1968.0	0.42	80.6%	85%
166 of 226	05/30/06	17	988 VPFYLNQYRINGLGVT 1004	1952.0	0.40	90.1%	85%
167 of 226	05/30/06	17	994 VQYRINGLGVTMDVLSQ 1010	1892.0	0.26	89.7%	85%
168 of 226	08/09/06	17	1000 GLGVTMDVLSQNQKLI 1016	1785.9	0.46	83.8%	90%
169 of 226	08/09/06	17	1006 DVLSQNQKLIANAFNNA 1022	1858.9	-0.28	84.2%	90%
170 of 226	10/15/06	17	1011 NQKLIANAFNNALYAIQ 1027	1905.0	0.02	>80.0%	90%
171 of 226	09/28/06	17	1017 NAFNNALYAIQEGFDAT 1033	1857.8	-0.14	91.0%	90%
172 of 226	05/31/06	17	1023 LYAIQEGFDATNSALVK 1039	1838.9	0.20	94.3%	85%
173 of 226	07/15/06	17	1029 GFDATNSALVKIQAVVN 1045	1745.9	0.55	85.4%	85%
174 of 226	08/06/06	17	1035 SALVKIQAVVNANAEAL 1051	1710.0	0.88	80.1%	90%
175 of 226	07/29/06	17	1040 IQAVVNANAEALNNLLQ 1056	1793.9	0.41	90.4%	90%
176 of 226	08/27/06	17	1046 ANAEALNNLLQLSNRF 1062	1915.0	-0.38	82.8%	90%
177 of 226	09/22/06	17	1052 NNLLQLSNRFGAISAS 1068	1831.9	-0.15	93.5%	85%
178 of 226	06/23/06	17	1058 LSNRFGAISASLQEILS 1074	1804.9	0.48	85.7%	90%
179 of 226	05/31/06	17	1064 AISASLQEILSRLDALE 1080	1828.0	0.51	93.8%	90%

**Table 1**

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydropathy	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
180 of 226	07/26/06	17	1069 LQEILSRLDALEAEAQI 1085	1911.0	0.19	84.6%	90%
181 of 226	09/14/06	17	1075 RLDALAEAAQIDRLING 1091	1896.0	-0.27	95.5%	90%
182 of 226	05/31/06	17	1081 AEAQIDRLINGRLTALN 1097	1867.0	-0.11	92.0%	90%
183 of 226	06/23/06	17	1087 RLINGRLTALNAYVSSQQ 1103	1916.0	-0.15	94.2%	85%
184 of 226	07/18/06	17	1093 LTALNAYVSSQQSDSTL 1109	1822.9	0.23	99.8%	85%
185 of 226	05/31/06	17	1099 YVSQQLSDSTLVKFSAA 1115	1842.9	0.16	90.0%	75%
186 of 226	05/31/06	17	1105 SDSTLVKFSAAQAMEKV 1121	1810.9	0.05	84.4%	80%
187 of 226	06/23/06	17	1111 KFSAAQAMEKVNECVKS 1127	1868.9	-0.37	88.3%	80%
188 of 226	07/13/06	17	1117 AMEKVNECVKSSSRIN 1133	1921.9	-0.77	96.5%	85%
189 of 226	09/27/06	17	1123 ECVKSSSRINFCGNGN 1139	1841.8	-0.74	86.9%	90%
190 of 226	09/14/06	17	1129 SSRINFCGNGNHIISLV 1145	1829.9	0.32	87.6%	80%
191 of 226	08/28/06	17	1135 CGNGNHIISLVQNAPYG 1151	1755.8	-0.05	90.5%	75%
192 of 226	06/12/06	17	1141 IISLVQNAPYGLYFIHF 1157	1994.0	1.01	87.4%	75%
193 of 226	05/30/06	17	1147 NAPYGLYFIHFSYVPTK 1163	2016.0	0.02	81.4%	75%
194 of 226	07/10/06	17	1153 YFIHFSYVPTKYVTARV 1169	2090.1	0.31	91.9%	80%
195 of 226	05/30/06	17	1159 YVPTKYVTARVSPGLCI 1175	1866.0	0.49	92.2%	80%
196 of 226	09/22/06	17	1165 VTARVSPGLCIAGDRGI 1181	1683.9	0.62	82.0%	90%
197 of 226	06/12/06	17	1171 PGLCIAGDRGIAPKSGY 1187	1673.8	0.01	97.0%	90%
198 of 226	08/28/06	17	1177 GDRGIAPKSGYFVNVNN 1193	1806.9	-0.58	86.8%	85%
199 of 226	07/09/06	17	1183 PKSGYFVNVNNTWMTYG 1199	1976.9	-0.55	81.1%	90%
200 of 226	09/27/06	17	1189 VNVNNTWMTYGSYYYP 1205	2027.8	-0.64	95.8%	75%
201 of 226	05/31/06	17	1195 WMYTGSYYYPEPITEN 1211	2069.8	-0.96	90.8%	85%
202 of 226	07/02/06	17	1201 GYYPEPITENNVVMS 1217	1973.9	-0.24	82.4%	90%
203 of 226	10/19/06	17	1207 PITENNVVMSSTCAVNY 1223	1852.9	0.49	83.0%	90%
204 of 226	06/12/06	17	1213 VVMSSTCAVNYKAPYV 1229	1843.9	0.89	96.0%	85%
205 of 226	10/15/06	17	1219 CAVNYKAPYVMLNTSI 1235	1886.9	0.44	99.0%	85%
206 of 226	05/30/06	17	1225 KAPYVMLNTSIPNLPDF 1241	1919.0	0.05	80.0%	85%
207 of 226	05/30/06	17	1231 LNTSIPNLPDFKEELDQ 1247	1971.9	-0.85	80.0%	85%
208 of 226	10/13/06	17	1237 NLPDFKEELDQWFKNQT 1253	2151.0	-1.52	96.0%	85%
209 of 226	10/09/06	17	1243 EELDQWFKNQTSVAPDL 1259	2018.9	-0.94	87.0%	90%
210 of 226	09/14/06	17	1249 FKNQTSVAPDLSLDYIN 1265	1923.9	-0.34	85.0%	90%
211 of 226	10/10/06	17	1255 VAPDLSLDYINVTFLDL 1271	1907.0	0.84	95.0%	90%
212 of 226	09/29/06	17	1261 LDYINVTFLDLQVEMNR 1277	2082.0	0.09	87.0%	90%
213 of 226	10/09/06	17	1267 TFLDLQVEMNRLQEAIK 1283	2047.1	-0.21	94.0%	80%
214 of 226	10/09/06	17	1273 VEMNRLQEAIKVLNQSY 1289	2034.0	-0.43	94.0%	85%
215 of 226	09/26/06	17	1278 LQEAIKVLNQSYINLKD 1294	1988.1	-0.26	83.0%	90%
216 of 226	06/23/06	17	1284 VLNQSYINLKDIDGTYEY 1300	2032.0	-0.38	93.0%	90%
217 of 226	10/09/06	17	1290 INLKDIDGTYEYVWVWV 1306	2187.1	-0.57	82.0%	85%
218 of 226	09/26/06	17	1296 GTYEYVWVWVWVWVWV 1312	2278.1	0.15	95.0%	80%
219 of 226	08/09/06	17	1302 VKWPVWVWVWVWVWVWV 1318	2016.1	1.45	85.0%	85%
220 of 226	08/14/06	17	1308 VWVWVWVWVWVWVWVWV 1324	1873.1	2.91	>80.0%	75%
221 of 226	09/08/06	17	1314 LAGVWVWVWVWVWVWVWV 1330	1815.9	2.68	>80.0%	70%
222 of 226	10/13/06	17	1320 LVWVWVWVWVWVWVWVWV 1336	1781.8	2.07	>80.0%	80%
223 of 226	09/06/06	17	1326 ICCCTGCGTSCFKKCGG 1342	1669.6	0.63	95.0%	75%
224 of 226	09/26/06	17	1332 CGTSCFKKCGGCCDDYT 1348	1789.6	-0.25	89.0%	85%
225 of 226	09/26/06	17	1338 KKCGGCCDDYTGQELV 1354	1880.8	-0.64	82.0%	85%
226 of 226	09/27/06	18	1344 CDDYTGQELVIKTSRDD 1361	2100.9	-0.87	96.0%	75%

<sup>a</sup>% full-length

<sup>b</sup>Remainder is salt and water

**Note:** Actual amino acid results which are not within 30% 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 226	Expected	2.00					1.00		3.00	4.00		1.00	2.00	1.00	1.00	1.00			1.00
	Actual	1.7					0.8		2.3	3.2		0.8	1.5	0.8	0.7	0.7			0.8
2 of 226	Expected	2.00		1.00	1.00		1.00		2.00	2.00	1.00		1.00	1.00	2.00	2.00			1.00
	Actual	1.8		0.9	0.8		0.8		1.5	1.8	0.9		0.9	0.9	1.6	1.7			0.7
3 of 226	Expected	1.00		3.00	1.00		1.00		2.00	1.00	1.00		1.00		2.00	2.00			1.00
	Actual	0.8		2.4	0.8		0.8		1.4	0.8	0.8		0.8		1.6	1.5			0.8
4 of 226	Expected			4.00	1.00		1.00		1.00	1.00	2.00			1.00	2.00	3.00			1.00
	Actual			3.5	0.8		0.7		0.7	0.8	1.6			0.8	1.6	2.2			0.7
5 of 226	Expected			4.00			1.00		2.00		1.00			3.00	2.00	3.00			1.00
	Actual			3.6			0.8		1.7		0.8			2.7	1.5	2.3			0.8
6 of 226	Expected			4.00			1.00		1.00		1.00			3.00	1.00	4.00			2.00
	Actual			3.6			0.7		0.9		0.8			2.4	0.8	3.5			1.8
7 of 226	Expected			3.00			2.00		1.00	1.00				1.00	1.00	4.00			2.00
	Actual			2.7			1.8		0.7	0.9				0.8	0.8	3.2			1.8
8 of 226	Expected		1.00	3.00			2.00			2.00						2.00			3.00
	Actual		0.9	2.7			1.6			1.8						1.6			2.6
9 of 226	Expected		1.00	2.00			1.00			4.00			1.00			3.00			3.00
	Actual		0.9	1.8			0.7			3.2			0.9			2.5			2.4
10 of 226	Expected		1.00	3.00			1.00			4.00			1.00	1.00		2.00			3.00
	Actual		0.9	2.8			0.9			3.6			0.9	0.9		1.8			2.7
11 of 226	Expected			2.00			2.00			2.00			1.00	1.00	2.00	4.00			3.00
	Actual			1.8			1.8			1.7			0.9	0.9	1.8	3.6			2.7
12 of 226	Expected	1.00	1.00	2.00			2.00			1.00	1.00	1.00		1.00	2.00	2.00			3.00
	Actual	0.8	0.8	1.6			1.5			0.8	0.8	0.7		0.8	1.6	1.5			2.2
13 of 226	Expected	1.00	1.00	1.00			2.00			3.00	1.00	1.00			4.00	1.00			1.00
	Actual	0.9	0.8	0.9			1.6			2.7	0.9	0.7			3.4	0.8			0.7
14 of 226	Expected	1.00	1.00	1.00			1.00			4.00	2.00	1.00	1.00	1.00	2.00		1.00		1.00
	Actual	0.8	0.9	0.9			0.8			3.2	1.6	0.7	0.9	0.9	1.7		0.8		0.8
15 of 226	Expected		1.00	1.00						4.00	1.00		3.00	2.00	3.00		1.00		1.00
	Actual		0.9	0.9						3.2	0.8		2.4	1.8	2.4		0.8		0.7
16 of 226	Expected	1.00		2.00			1.00		2.00	2.00	1.00		4.00	2.00	1.00		1.00		
	Actual	0.7		1.6			0.7		1.4	1.4	0.7		2.9	1.4	0.7		0.7		
17 of 226	Expected	1.00		3.00			1.00		2.00	1.00	3.00		3.00		1.00	1.00			1.00
	Actual	0.9		2.4			0.8		1.7	0.9	2.4		2.4		0.8	0.8			0.8
18 of 226	Expected	1.00	1.00	3.00			1.00		2.00		4.00		1.00			1.00			3.00
	Actual	0.9	0.8	2.5			0.7		1.5		3.6		0.8			0.8			2.4
19 of 226	Expected		1.00	2.00		1.00			1.00		3.00	1.00	1.00	1.00	1.00	1.00			1.00
	Actual		0.9	1.7		0.9			0.8		2.7	0.8	0.9	0.8	0.8	0.8			0.9
20 of 226	Expected	1.00	1.00	1.00		1.00	1.00		3.00		1.00	1.00	1.00	1.00	2.00	1.00			1.00
	Actual	0.9	0.9	0.9		0.9	0.8		2.4		0.8	0.9	0.9	0.9	1.6	0.8			0.9
21 of 226	Expected	1.00		1.00		1.00	1.00		2.00				2.00	1.00	3.00	3.00			1.00
	Actual	0.9		0.9		0.9	0.9		1.8				1.8	0.9	2.7	2.7			0.9
22 of 226	Expected			1.00		1.00	1.00		2.00				1.00		3.00	3.00			1.00
	Actual			0.9		0.9	0.8		1.7				0.8		2.3	2.3			0.9
23 of 226	Expected		1.00	2.00		1.00			1.00				1.00	1.00	3.00	2.00			1.00
	Actual		0.9	1.8		0.9			0.9				0.8	0.9	2.6	1.7			0.9
24 of 226	Expected		1.00	3.00		2.00	1.00		1.00					1.00	2.00	2.00			1.00
	Actual		0.9	2.7		1.8	0.9		0.9					0.9	1.7	1.7			0.9
25 of 226	Expected		1.00	3.00		2.00	2.00		1.00	3.00	1.00				1.00	2.00			1.00
	Actual		0.9	2.7		1.8	1.7		0.9	2.7	0.9				0.9	1.7			0.8
26 of 226	Expected			2.00	1.00	3.00	2.00			3.00	1.00				1.00	1.00			1.00
	Actual			1.8	0.8	2.8	1.7			2.7	0.9				0.9	0.8			0.8
27 of 226	Expected			1.00	2.00	4.00	1.00			3.00	1.00	1.00			1.00				1.00
	Actual			0.9	1.6	3.6	0.7			2.3	0.8	0.7			0.7				0.7
28 of 226	Expected			1.00	3.00	4.00			1.00			1.00		1.00	1.00	1.00			2.00
	Actual			0.9	2.3	3.7			0.7			0.8		0.9	0.8	0.9			1.8

**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)
29 of 226	Expected			3.00	2.00	2.00	1.00	1.00	1.00	1.00		1.00		2.00		1.00		2.00	
	Actual			2.7	1.5	1.8	0.7	0.9	0.7	0.8		0.9		1.7		0.9		1.7	
30 of 226	Expected		1.00	2.00	1.00	2.00	1.00	2.00	1.00	2.00	1.00			2.00		1.00	1.00		
	Actual		0.9	1.4	0.7	1.6	0.7	1.4	0.7	1.5	0.8			1.5		0.7	0.7		
31 of 226	Expected		1.00	3.00		1.00	2.00	2.00		3.00	1.00			1.00		1.00	1.00		1.00
	Actual		0.8	2.4		0.9	1.4	1.6		2.4	0.8			0.8		0.8	0.8		0.8
32 of 226	Expected		1.00	1.00	1.00	1.00	1.00	1.00		3.00	2.00				1.00	1.00	1.00	1.00	2.00
	Actual		0.7	0.9	0.8	0.8	0.8	0.8		2.5	1.7				0.7	0.8	0.7	0.8	1.5
33 of 226	Expected		1.00	3.00	1.00		1.00			2.00	1.00		1.00		1.00	2.00		2.00	2.00
	Actual		0.9	2.7	0.8		0.8			1.7	0.9		0.9		0.7	1.7		1.7	1.6
34 of 226	Expected	1.00	1.00	4.00	1.00					2.00	1.00		1.00		1.00	1.00		3.00	1.00
	Actual	0.9	0.9	3.6	0.8					1.8	0.9		0.9		0.8	0.9		2.7	0.9
35 of 226	Expected	1.00		4.00		1.00		1.00		1.00			3.00			1.00		4.00	1.00
	Actual	0.9		3.8		0.9		0.9		0.9			2.8			0.9		3.8	0.9
36 of 226	Expected	1.00		2.00		2.00	2.00	1.00		1.00			3.00			1.00		4.00	
	Actual	0.9		1.7		1.8	1.8	0.7		0.9			2.7			0.9		3.6	
37 of 226	Expected	1.00		1.00		2.00	2.00	1.00					4.00			3.00		3.00	
	Actual	0.9		0.9		1.7	1.7	0.7					3.5			2.5		2.3	
38 of 226	Expected	1.00		1.00			3.00				1.00		3.00			4.00		2.00	2.00
	Actual	0.8		0.9			2.6				0.9		2.7			3.2		1.6	1.6
39 of 226	Expected			2.00			1.00			2.00	1.00		3.00			3.00		2.00	3.00
	Actual			1.7			0.7			1.8	0.8		2.4			2.3		1.8	2.1
40 of 226	Expected	1.00		1.00			1.00	1.00		3.00	1.00	1.00	2.00		1.00	1.00		1.00	3.00
	Actual	0.8		0.8			0.8	0.7		2.2	0.8	0.7	1.5		0.8	0.7		0.7	2.1
41 of 226	Expected	1.00		1.00			1.00	1.00		3.00		2.00	1.00	1.00	1.00			3.00	2.00
	Actual	0.9		0.8			0.7	0.8		2.6		1.7	0.9	0.9	0.8			2.6	1.6
42 of 226	Expected	1.00		1.00	1.00			1.00		2.00	1.00	2.00		1.00	2.00	1.00		2.00	2.00
	Actual	0.9		0.9	0.8			0.7		1.7	0.9			0.9	1.6	0.7		1.7	1.6
43 of 226	Expected			2.00	1.00		1.00			2.00	2.00	1.00	1.00	1.00	1.00	2.00		1.00	2.00
	Actual			1.8	0.7		0.9			1.8	1.8	0.8	0.9	0.9	0.9	1.6		0.8	1.8
44 of 226	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			1.1	0.7	0.9	0.7			0.8	1.4		0.7	0.8	0.6	1.4	0.7	0.7	1.5
45 of 226	Expected		1.00	1.00		2.00	1.00			2.00			1.00	1.00	1.00	3.00	1.00	2.00	1.00
	Actual		0.9	0.8		1.7	0.8			1.7			0.8	0.9	0.9	2.6	0.8	1.8	0.9
46 of 226	Expected	1.00	1.00	1.00		2.00				3.00			1.00	1.00	1.00	2.00	1.00	2.00	1.00
	Actual	0.8	0.8	0.8		1.6				2.4			0.8	0.8	0.8	1.6	0.8	1.5	0.8
47 of 226	Expected	1.00	1.00	3.00		2.00	1.00		2.00	2.00			2.00		1.00	1.00		1.00	
	Actual	0.9	0.9	2.7		1.9	0.9		1.4	1.8			1.8		0.8	0.9		0.9	
48 of 226	Expected	2.00		4.00	1.00	1.00	1.00		2.00	1.00		1.00	2.00		1.00				1.00
	Actual	1.7		3.5	0.8	0.8	0.9		1.4	0.8		0.7	1.6		0.9				0.9
49 of 226	Expected	1.00		3.00	1.00	1.00	1.00		3.00			2.00	2.00		2.00				1.00
	Actual	0.9		2.7	0.8	0.9	0.9		2.5			1.7	1.8		1.5				0.9
50 of 226	Expected			2.00	2.00	2.00			1.00		2.00	2.00	1.00		3.00	1.00			1.00
	Actual			1.8	1.6	1.8			0.9		1.8	1.8	0.9		2.6	0.9			0.8
51 of 226	Expected	1.00			1.00	2.00	1.00		2.00		2.00	1.00	1.00	2.00	2.00	2.00			
	Actual	0.9			0.8	1.6	0.8		1.5		1.6	0.8	0.8	1.8	1.6	1.6			
52 of 226	Expected	1.00		1.00	1.00	2.00	2.00		1.00	1.00	1.00			2.00	1.00	2.00		1.00	1.00
	Actual	0.9		0.9	0.8	1.8	1.8		0.9	0.9	0.9			1.8	0.8	1.8		0.9	0.9
53 of 226	Expected	1.00		1.00		2.00	2.00		1.00	1.00				3.00		2.00		2.00	2.00
	Actual	0.6		0.9		1.8	1.6		0.8	0.8				2.4		1.5		1.5	1.5
54 of 226	Expected	1.00	2.00	2.00		2.00	1.00		1.00	1.00				1.00		1.00		3.00	2.00
	Actual	0.9	1.8	1.8		1.7	0.7		0.9	0.8				0.9		0.8		2.7	1.6
55 of 226	Expected	1.00	2.00	3.00		1.00			1.00	2.00	1.00			2.00		1.00		1.00	2.00
	Actual	0.8	1.8	2.7		0.7			0.8	1.7	0.8			1.7		0.7		0.8	0.7
56 of 226	Expected	1.00	2.00	4.00	1.00	1.00			1.00	2.00	1.00			1.00			1.00	1.00	1.00
	Actual	0.9	1.8	3.7	0.8	0.9			0.9	1.8	0.9			0.9			0.8	0.9	0.9

**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)
57 of 226	Expected	1.00		5.00	1.00	1.00			1.00	3.00	1.00			1.00	1.00		1.00		1.00
	Actual	0.9		4.6	0.8	0.9			0.9	2.7	0.9			0.9	0.9		0.8		0.9
58 of 226	Expected	1.00		4.00		1.00			1.00	2.00	1.00			2.00	2.00		2.00		1.00
	Actual	0.9		3.5		0.9				1.7	0.9			1.8	1.7		1.5		0.9
59 of 226	Expected		1.00	3.00		1.00				1.00	2.00		1.00	2.00	3.00	1.00	1.00		1.00
	Actual		0.9	2.5		0.9				0.8	1.8		0.9	1.8	2.7	0.9	0.7		0.9
60 of 226	Expected		1.00	4.00	1.00	1.00				1.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00		
	Actual		0.9	3.6	0.8	0.9				0.9	0.9	0.8	1.8	0.9	1.7	0.9	0.8		
61 of 226	Expected		1.00	3.00	1.00					1.00	1.00	2.00	3.00		4.00	1.00			
	Actual		0.8	2.5	0.7					0.8	0.8	1.1	2.3		2.8	0.7			
62 of 226	Expected	1.00		3.00	1.00	1.00			1.00	1.00		2.00	3.00		4.00	0.00			
	Actual	0.9		2.8	0.8	0.9			0.9	0.9		1.7	2.8		3.7	0.00			
63 of 226	Expected	1.00		4.00	1.00	1.00			2.00	1.00		1.00	2.00		3.00	1.00			
	Actual	0.9		3.7	0.8	0.9			1.8	0.9		0.8	1.8		2.5	0.8			
64 of 226	Expected	3.00		4.00	1.00	1.00			3.00		1.00		1.00		1.00	1.00		1.00	
	Actual	2.8		3.7	0.8	0.9			2.7		0.9		0.9		0.9	0.7		0.9	
65 of 226	Expected	2.00		3.00	2.00		1.00		2.00		1.00	1.00	1.00		2.00	1.00		1.00	
	Actual	1.9		2.7	1.7		0.9		1.8		0.9	0.9	0.9		1.8	0.7		0.9	
66 of 226	Expected	2.00		1.00	1.00		1.00		3.00		2.00	1.00	2.00		2.00	1.00		1.00	
	Actual	1.8		0.9	0.7		0.9		2.7		1.8	0.6	1.8		1.8	0.8		0.7	
67 of 226	Expected	1.00	1.00	2.00	1.00		1.00		3.00		1.00	1.00	2.00	1.00	2.00	1.00			
	Actual	0.9	0.8	1.9	0.8		0.7		2.7		0.9	0.8	1.8	0.9	1.9	0.9			
68 of 226	Expected	1.00	1.00	3.00		1.00	1.00		2.00	2.00	2.00		1.00	1.00		1.00			1.00
	Actual	0.8	0.9	2.7		0.9	0.8		1.5	1.8	1.8		0.8	0.9		0.7			0.9
69 of 226	Expected		1.00	3.00		1.00	3.00		1.00	4.00	1.00			1.00				1.00	1.00
	Actual		0.9	2.8		0.9	2.5		0.8	3.6	0.9			0.9				0.9	0.9
70 of 226	Expected		1.00	3.00		2.00	2.00			4.00			1.00		1.00			2.00	1.00
	Actual		0.9	2.7		1.8	1.6			3.6			0.9		0.9			1.8	0.8
71 of 226	Expected	1.00	1.00	3.00		1.00	1.00		1.00	2.00			1.00		1.00	3.00		2.00	
	Actual	0.9	0.9	2.7		0.9	0.9		0.9	1.8			0.9		0.9	2.7		1.8	
72 of 226	Expected	1.00	1.00	2.00	1.00	1.00			1.00	1.00			1.00		2.00	3.00		3.00	
	Actual	0.9	0.8	1.6	0.8	0.9			0.8	0.9			0.8		1.5	2.7		2.7	
73 of 226	Expected	3.00		3.00	1.00	1.00				2.00				1.00	1.00	3.00		2.00	
	Actual	2.7		2.7	0.8	0.9				1.8				0.9	0.6	2.7		1.8	
74 of 226	Expected	2.00	1.00	2.00	1.00	1.00				2.00			1.00	1.00	2.00			2.00	2.00
	Actual	1.8	0.9	1.8	0.8	0.9				1.7			0.9	0.9	1.8			1.6	1.8
75 of 226	Expected	2.00	1.00	3.00						1.00			1.00	2.00	3.00	1.00	1.00		2.00
	Actual	1.6	0.9	2.7						0.7			0.9	1.7	2.4	0.8	0.8		1.6
76 of 226	Expected		2.00	2.00			1.00		1.00		1.00		3.00	1.00	3.00	1.00	1.00		1.00
	Actual		1.7	1.7			0.8		0.8		0.8		2.6	0.9	2.4	0.8	0.6		0.8
77 of 226	Expected		1.00	2.00		1.00	1.00		1.00		2.00		3.00	1.00	2.00	1.00	1.00		1.00
	Actual		0.8	1.8		0.9	0.8		0.8		1.6		2.4	0.8	1.5	0.7	0.8		0.8
78 of 226	Expected	1.00	2.00	1.00		1.00	2.00		1.00		1.00		3.00	2.00	1.00				2.00
	Actual	0.9	1.8	0.9		0.9	1.7		0.9		0.9		2.7	1.8	0.9				1.7
79 of 226	Expected	1.00	1.00	3.00			1.00	1.00		1.00	1.00		1.00	2.00	1.00	1.00			3.00
	Actual	0.9	0.9	2.7			0.8	0.9		0.9	0.8		0.9	1.8	0.8	0.9			2.6
80 of 226	Expected	2.00	1.00	2.00	1.00	1.00	1.00	2.00		1.00				1.00		1.00		1.00	3.00
	Actual	1.8	0.9	1.8	0.8	0.9	0.8	1.6		0.9				0.9		0.8		0.8	2.4
81 of 226	Expected	2.00		3.00	1.00	1.00		2.00			2.00		1.00	1.00		1.00		1.00	2.00
	Actual	1.8		2.7	0.8	0.9		1.6			1.6		0.9	0.8		0.7		0.8	1.4
82 of 226	Expected	2.00		1.00	3.00	1.00		1.00		1.00	3.00		2.00	2.00					1.00
	Actual	1.8		0.9	2.5	0.9		0.9		0.9	2.7		1.8	1.8				0.9	
83 of 226	Expected	1.00		2.00	3.00		2.00			1.00	3.00		1.00	2.00	1.00				1.00
	Actual	0.9		1.8	2.5		1.5			0.8	2.6		0.8	1.8	0.6				0.9
84 of 226	Expected			2.00	3.00		4.00			1.00	2.00			2.00	2.00				1.00
	Actual			1.8	0.8		3.1			0.8	1.6			1.6	1.5				0.8
85 of 226	Expected			2.00	2.00		6.00		1.00		1.00			1.00	2.00	1.00			1.00
	Actual			1.8	1.5		5.5		0.9		0.9			0.8	1.4	0.7			0.9



**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)
86 of 226	Expected	1.00		3.00	1.00		5.00		1.00		1.00			2.00		2.00		1.00	
	Actual	0.9		2.8	0.8		4.2		0.9		0.9			1.8		1.4		0.9	
87 of 226	Expected	1.00		3.00	2.00		3.00		1.00	2.00				1.00		3.00		1.00	
	Actual	0.9		2.7	1.6		2.2		0.8	1.6				0.9		2.1		0.8	
88 of 226	Expected	1.00		4.00	2.00		1.00		1.00	2.00				2.00		3.00		1.00	
	Actual	0.9		3.7	1.5		0.8		0.9	1.7				1.8		2.4		0.9	
89 of 226	Expected	1.00		3.00	2.00		1.00		1.00	1.00	1.00		1.00	2.00		4.00			
	Actual	9.00		2.8	1.5		0.8		0.9	0.9	0.9		0.9	1.8		3.2			
90 of 226	Expected	1.00		1.00	1.00	1.00	1.00		1.00		2.00		1.00	3.00		4.00		1.00	
	Actual	0.9		0.8	0.8	0.9	0.9		0.8		0.00		0.9	2.5		3.2		0.8	
91 of 226	Expected	1.00			1.00	1.00	2.00			1.00	3.00		1.00	1.00	1.00	3.00		1.00	1.00
	Actual	0.8			0.8	0.8	1.6			0.8	2.4		0.8	0.8	0.7	2.2		0.7	0.8
92 of 226	Expected				2.00	2.00	2.00	1.00	1.00	1.00	2.00			1.00	2.00	1.00		1.00	1.00
	Actual				1.5	1.5	1.5	0.9	0.9	0.9	1.4			0.9	1.5	0.8		0.7	0.9
93 of 226	Expected	1.00			1.00	1.00	3.00	1.00	1.00	2.00	2.00				3.00				2.00
	Actual	0.9			0.8	0.9	2.3	0.8	0.8	1.6	1.6				2.4				1.6
94 of 226	Expected	1.00		2.00	2.00	1.00	4.00	1.00		1.00	1.00				2.00			1.00	1.00
	Actual	0.9		1.3	1.5	0.9	3.1	0.8		0.9	0.8				1.7			0.8	0.9
95 of 226	Expected	1.00	1.00	2.00	3.00		2.00			1.00	1.00			1.00	2.00	1.00		1.00	1.00
	Actual	0.9	0.9	1.7	2.5		1.6			0.8	0.9			0.9	1.4	0.7		0.9	0.9
96 of 226	Expected	1.00	1.00	1.00	3.00	1.00	3.00			1.00			1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Actual	0.9	0.9	0.9	2.5	0.9	2.4			0.9			0.9	0.9	0.7	0.7	0.8	0.9	
97 of 226	Expected	2.00	1.00	1.00	3.00	1.00	1.00			2.00			1.00	1.00	2.00	1.00	1.00		
	Actual	1.8	0.9	0.9	2.3	0.9	0.9			1.8			0.9	0.9	1.4	0.9	0.7		
98 of 226	Expected	2.00		3.00	2.00	1.00	2.00			2.00	1.00		1.00		2.00		1.00		
	Actual	1.7		2.6	1.6	0.8	1.5			1.6	0.8		0.8		1.5		0.8		
99 of 226	Expected	2.00		4.00	2.00	1.00	1.00		2.00	1.00	1.00		2.00		1.00				
	Actual	1.8		3.6	0.8	0.9	0.8		1.6	0.8	0.8		1.7		0.7				
100 of 226	Expected	1.00		5.00	1.00		1.00	1.00	2.00	1.00	1.00		2.00		1.00				1.00
	Actual	0.9		4.5	0.7		0.8	0.9	1.7	0.9	0.9		1.8		0.8				0.9
101 of 226	Expected	1.00		3.00	1.00		1.00	1.00	1.00	2.00			2.00		2.00	2.00			1.00
	Actual	0.9		2.7	0.8		0.9	0.9	0.9	1.8			1.8		1.8	1.5			0.9
102 of 226	Expected	1.00		4.00	1.00	1.00	1.00	1.00		2.00	1.00				2.00	2.00			1.00
	Actual	0.8		3.4	0.8	0.8	0.8	0.7		1.7	0.8				1.6	1.5			0.8
103 of 226	Expected	1.00		3.00	1.00	1.00	1.00		2.00	3.00	1.00				1.00	3.00			
	Actual	0.9		2.8	0.8	0.9	0.9		1.3	2.4	0.9				0.8	2.3			
104 of 226	Expected	1.00		4.00	1.00	1.00	1.00		2.00	2.00	1.00					1.00		1.00	2.00
	Actual	0.9		3.6	0.8	0.9	0.9		1.4	1.6	0.8					0.7		0.8	1.8
105 of 226	Expected			3.00	1.00		3.00		3.00	3.00								2.00	2.00
	Actual			2.2	0.8		2.1		2.1	2.2								1.4	1.5
106 of 226	Expected			2.00	1.00	2.00	3.00		2.00	2.00			1.00					2.00	2.00
	Actual			1.7	0.8	1.7	2.7		1.7	1.8			0.9					1.7	1.8
107 of 226	Expected	1.00		1.00		2.00	3.00		2.00	1.00			1.00			1.00		3.00	2.00
	Actual	0.9		0.9		1.9	2.6		1.8	0.9			0.9			0.9		2.7	1.8
108 of 226	Expected	1.00		3.00		2.00	1.00		1.00	1.00			1.00		1.00	1.00	1.00	2.00	2.00
	Actual	0.9		2.8		1.8	0.5		0.5	0.9			0.7		0.8	0.8	0.7	1.7	1.6
109 of 226	Expected	1.00		5.00		1.00	1.00			2.00					2.00	1.00	1.00	3.00	
	Actual	0.9		4.5		0.9	0.9			1.8					1.7	0.8	0.8	2.7	
110 of 226	Expected		1.00	4.00		1.00	2.00			3.00			1.00		2.00		1.00	2.00	
	Actual		0.9	3.6		0.8	1.6			2.5			0.9		1.5		0.7	1.8	
111 of 226	Expected	2.00		5.00			2.00		1.00	1.00			1.00		1.00	1.00		3.00	
	Actual		1.9	4.7			1.8		0.9	0.9			0.9		0.9	0.9		2.7	
112 of 226	Expected		3.00	2.00			1.00		2.00	1.00		1.00	2.00		1.00	2.00		2.00	
	Actual		2.7	1.8			0.7		1.5	0.8		0.7	1.7		0.8	1.6		1.5	
113 of 226	Expected		3.00	1.00	1.00		1.00		2.00			1.00	1.00		2.00	2.00		2.00	1.00
	Actual		2.5	0.9	0.8		0.8		1.5			0.8	0.9		1.6	1.5		1.4	0.9
114 of 226	Expected	3.00	2.00		1.00		1.00	1.00	1.00			1.00	2.00		3.00			1.00	1.00
	Actual	2.4	1.7		0.7		0.7	0.7	0.7			0.7	1.5		2.2			0.7	0.8

**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)
115 of 226	Expected	4.00	1.00	1.00		1.00	1.00	1.00					1.00	1.00	4.00			1.00	1.00
	Actual	3.6	0.9	0.9		0.9	0.7	0.9					0.9	0.9	3.4			0.8	0.8
116 of 226	Expected	4.00	1.00	2.00		1.00		1.00	2.00				2.00	1.00	2.00				
	Actual	3.2	0.9	1.8		0.9		0.7	0.8	1.6			1.4	0.9	1.4				
117 of 226	Expected	1.00	1.00	2.00	1.00	1.00			1.00	2.00	1.00		2.00	1.00	2.00			1.00	1.00
	Actual	0.8	0.8	1.8	0.8	0.8			0.8	1.5	0.8		1.6	0.8	1.4			0.8	0.8
118 of 226	Expected		2.00	4.00	1.00				1.00	2.00	1.00		2.00		1.00	1.00		1.00	1.00
	Actual		1.7	3.6	0.8				0.7	1.6	0.8		1.6		0.8	0.8		0.8	0.9
119 of 226	Expected		1.00	4.00	1.00	2.00			1.00	2.00			1.00	1.00	1.00	1.00		1.00	1.00
	Actual		0.9	3.7	0.8	1.9			0.9	1.8			0.9	0.9	0.9	0.9		0.9	0.9
120 of 226	Expected		1.00	3.00		2.00			1.00	3.00			1.00	1.00	2.00	1.00		2.00	
	Actual		0.9	2.7		1.8			0.9				0.9	0.9	1.6	0.7		1.8	
121 of 226	Expected	1.00		3.00	1.00	1.00	1.00		1.00	2.00			1.00	1.00	1.00			2.00	2.00
	Actual	0.9		2.8	0.8	0.9	0.9		0.9	1.8			0.9	0.9	0.8			1.8	1.8
122 of 226	Expected	2.00		3.00	1.00		1.00		1.00	1.00			1.00		2.00	1.00		2.00	2.00
	Actual	1.8		2.7	0.8		0.8		0.9	0.9			0.9		1.6	0.9		1.8	1.8
123 of 226	Expected	2.00		3.00	2.00	1.00			1.00						2.00	2.00		1.00	3.00
	Actual	1.6		2.2	1.5	0.8			0.8						1.3	1.4		0.6	2.1
124 of 226	Expected	1.00		2.00	1.00	1.00	2.00		1.00	1.00					3.00	3.00			2.00
	Actual	0.9		1.7	0.8	0.9	1.6		0.8	0.9					2.1	2.2			1.6
125 of 226	Expected			2.00	2.00	1.00	2.00			1.00					2.00	2.00		2.00	3.00
	Actual			1.8	1.5	0.8	1.8			0.9					1.7	1.5		1.7	2.5
126 of 226	Expected		3.00	2.00	1.00		2.00				1.00				3.00	1.00		2.00	2.00
	Actual		2.8	1.8	0.8		1.6				0.9				2.6	0.7		1.8	1.8
127 of 226	Expected	1.00	3.00	2.00	1.00		2.00		1.00		1.00				2.00	2.00		1.00	1.00
	Actual	0.9	2.2	1.5	0.8		1.6		0.9		0.8				1.5	1.6		0.8	0.8
128 of 226	Expected	1.00	4.00	2.00			2.00		1.00				2.00		1.00	3.00		1.00	
	Actual	0.8	3.3	1.6			1.5		0.8				1.6		0.7	2.3		0.8	
129 of 226	Expected	1.00	1.00	2.00		1.00	1.00		1.00				3.00	1.00		4.00		1.00	1.00
	Actual	0.9	0.9	1.8		0.9	0.8		0.8				2.7	0.9		3.6		0.9	0.9
130 of 226	Expected		1.00	4.00		1.00				1.00			3.00	1.00	2.00	2.00			2.00
	Actual		0.8	3.7		0.9				0.9			2.7	0.9	1.8	1.6			1.8
131 of 226	Expected			3.00		1.00	2.00			2.00			1.00	2.00	2.00	1.00			3.00
	Actual			2.9		0.9	1.8			1.8			0.9	1.8	1.8	0.8			2.7
132 of 226	Expected			2.00		3.00	2.00		2.00	2.00				2.00	1.00			1.00	2.00
	Actual			1.8		2.7	1.6		1.7	1.8				1.7	0.8			0.9	1.8
133 of 226	Expected					3.00	3.00		3.00	1.00			1.00	2.00	1.00	1.00		1.00	1.00
	Actual					2.7	2.7		2.7	0.9			0.9	1.8	0.9	0.9		0.9	0.9
134 of 226	Expected			1.00		5.00	1.00		4.00			1.00	2.00	1.00	1.00	1.00			
	Actual			0.9		4.7	0.9		3.2			0.8	1.8	0.9	0.9	0.9			
135 of 226	Expected			1.00		4.00	1.00		2.00		1.00	1.00	2.00	1.00	2.00	2.00			
	Actual			0.6		3.6	0.8		1.7		0.8	0.8	1.7	0.9	1.6	1.6			
136 of 226	Expected	1.00		1.00	1.00	3.00			2.00		1.00	1.00	1.00	1.00	2.00	2.00			1.00
	Actual	0.9		0.9	0.8	2.7			1.7		0.9	0.9	0.9	0.9	1.8	1.7			0.9
137 of 226	Expected	2.00		2.00	2.00		1.00		1.00		1.00		1.00	1.00	2.00	2.00			2.00
	Actual	1.9		1.9	1.6		0.9		0.9		0.9		0.9	0.9	1.8	1.7			1.9
138 of 226	Expected	4.00		2.00	3.00		1.00		1.00		1.00		1.00		1.00	1.00		1.00	1.00
	Actual	3.6		1.8	2.4		0.9		0.9		0.9		0.9		0.8	0.9		0.8	0.9
139 of 226	Expected	2.00		1.00	2.00	2.00	2.00			1.00	1.00		1.00		1.00			2.00	2.00
	Actual	1.8		0.9	1.5	1.8	1.8			0.9	0.8		0.8		0.8			1.6	1.7
140 of 226	Expected	2.00		2.00	2.00	2.00	1.00		1.00	1.00	1.00		1.00		2.00			1.00	1.00
	Actual	1.6		1.8	1.6	1.7	0.8		0.9	0.9	0.8		0.9		1.5			0.9	0.9
141 of 226	Expected	1.00		3.00	1.00	2.00	1.00		2.00	2.00			1.00		1.00	1.00		1.00	1.00
	Actual	0.9		2.7	0.8	1.7	0.9		1.8	1.8			0.9		0.9	0.9		0.9	0.9
142 of 226	Expected	1.00		5.00	1.00	2.00			2.00	3.00			1.00			1.00			1.00
	Actual	0.9		4.4	0.8	1.9			1.8	2.7			0.9			0.9			0.9
143 of 226	Expected	1.00		2.00		4.00			1.00	4.00						3.00			2.00
	Actual	0.9		1.8		3.8			0.9	3.6						2.7			1.8

**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)
144 of 226	Expected	1.00		4.00		3.00				4.00		1.00			1.00	2.00			1.00
	Actual	0.9		3.6		2.6				3.6		0.8			0.8	1.7			0.9
145 of 226	Expected	1.00		2.00		2.00	1.00			3.00		1.00			2.00	3.00			2.00
	Actual	0.8		1.6		1.5	0.9			2.6		0.8			1.7	2.3			1.7
146 of 226	Expected			3.00			2.00			3.00	2.00	1.00			2.00	2.00			2.00
	Actual			2.7			1.8			2.7	1.8	0.7			1.6	1.7			1.9
147 of 226	Expected			5.00			1.00			2.00	2.00		1.00		1.00	2.00			3.00
	Actual			4.6			0.8			1.8	1.8		0.9		0.9	1.6			2.7
148 of 226	Expected			6.00			1.00		1.00	1.00	1.00		2.00	1.00	1.00				3.00
	Actual			5.5			0.8		0.9	0.9	0.9		1.8	0.9	0.9				2.7
149 of 226	Expected			4.00	1.00		2.00		1.00	2.00			2.00	1.00	2.00				2.00
	Actual			3.6	0.8		1.7		0.9	1.8			1.8	0.9	1.5				1.8
150 of 226	Expected	1.00		1.00	2.00	1.00	2.00			2.00	1.00		1.00	1.00	4.00				1.00
	Actual	0.9		0.8	1.5	0.8	1.8			1.8	0.8		0.8	0.9	3.4				0.9
151 of 226	Expected	2.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00				5.00				
	Actual	1.9	0.9		1.7	1.9	1.7		0.9	0.9	0.9				4.1				
152 of 226	Expected	2.00	1.00	2.00	1.00	1.00			1.00	2.00	2.00		1.00		4.00				
	Actual	1.8	0.9	1.8	0.8	0.9			0.7	1.6	1.6		0.8		3.2				
153 of 226	Expected	1.00	1.00	3.00		1.00			1.00	3.00	2.00		1.00		2.00				2.00
	Actual	0.9	0.9	2.7		0.9			0.7	2.5	1.7		0.9		1.6				1.6
154 of 226	Expected	1.00		2.00		1.00	1.00		0.00	3.00	2.00		2.00		1.00			1.00	3.00
	Actual	0.8		1.8		0.9	0.8			2.4	1.6		1.8		0.8			0.7	2.3
155 of 226	Expected	1.00		3.00	1.00	1.00	3.00			1.00	1.00		1.00		1.00	1.00		1.00	2.00
	Actual	0.9		2.7	0.8	0.9	2.6			0.8	0.7		0.9		0.7	0.9		0.9	1.8
156 of 226	Expected	2.00	1.00	3.00	1.00	2.00	2.00		1.00	1.00			1.00			1.00		1.00	1.00
	Actual	1.7	0.9	2.7	0.8	1.8	1.5		0.8	0.9			0.9			0.8		0.9	0.8
157 of 226	Expected	1.00	1.00	2.00	2.00	2.00	2.00		2.00	1.00					1.00	1.00		1.00	1.00
	Actual	0.9	0.9	1.8	1.5	1.8	1.6		1.5	0.9					0.8	0.8		0.9	0.9
158 of 226	Expected	0.00	1.00	1.00	1.00	2.00	1.00		3.00	2.00	2.00				1.00			1.00	2.00
	Actual		0.8	1*	0.8	1.3	0.9		2.1	1.8	1.8				0.8			0.8	1.9
159 of 226	Expected				1.00	2.00	1.00		1.00	3.00	2.00			2.00	2.00			1.00	2.00
	Actual				0.8	1.9	0.9		0.9	2.7	1.8			1.8	1.8			0.9	1.8
160 of 226	Expected			1.00		2.00	2.00		2.00	3.00	1.00			2.00	2.00			1.00	1.00
	Actual			0.9		1.7	1.6		1.6	2.7	0.9			1.8	1.7			0.8	0.9
161 of 226	Expected	2.00		1.00		2.00	1.00		1.00	3.00				1.00	3.00	2.00		1.00	
	Actual	1.9		0.9		1.8	0.9		0.9	2.7				0.9	2.7	1.8		0.8	
162 of 226	Expected	3.00		1.00		1.00	1.00		1.00	2.00			1.00	1.00	3.00	2.00		1.00	
	Actual	2.8		0.8		0.9	0.9		0.9	1.8			0.9	0.9	2.5	1.8		0.8	
163 of 226	Expected	6.00								3.00			1.00	1.00	2.00	3.00	1.00		
	Actual	5.5								2.7			0.9	0.9	1.8	2.4	0.8		
164 of 226	Expected	4.00					1.00			3.00			2.00	2.00	1.00	1.00	1.00	1.00	1.00
	Actual	3.4					0.7			2.5			1.6	1.6	0.7	0.7	0.7	0.7	0.8
165 of 226	Expected	3.00	1.00	1.00		1.00	1.00		1.00	1.00			1.00	1.00		1.00	1.00	2.00	2.00
	Actual	2.5	0.9	0.9		0.9	0.00		0.9	0.9			0.9	0.9		0.7	0.8	1.7	1.7
166 of 226	Expected		1.00	2.00		1.00	2.00		1.00	2.00			1.00	1.00		1.00		2.00	3.00
	Actual		0.9	1.8		0.9	1.6		0.8	1.7			0.9	0.9		0.7		1.6	2.5
167 of 226	Expected		1.00	2.00		2.00	2.00		1.00	2.00		1.00			1.00	1.00		1.00	3.00
	Actual		0.9	1.8		1.7	1.7		0.9	1.8		0.9			0.9	0.9		0.8	2.6
168 of 226	Expected	1.00		2.00		2.00	2.00		1.00	3.00	1.00	1.00			1.00	1.00			2.00
	Actual	0.9		1.9		1.9	1.8		0.9	2.8	0.9	0.7			0.8	0.8			1.8
169 of 226	Expected	3.00		5.00		2.00			1.00	2.00	1.00		1.00		1.00				1.00
	Actual	2.7		4.5		1.8			0.9	1.8	0.9		0.9		0.7				0.8
170 of 226	Expected	4.00		4.00		2.00			2.00	2.00	1.00		1.00						1.00
	Actual	3.6		3.6		1.7			1.9	1.9	0.8		0.9						0.9
171 of 226	Expected	4.00		4.00		2.00	1.00		1.00	1.00			2.00			1.00		1.00	
	Actual	3.6		3.6		1.9	0.9		0.9	0.9			1.8			0.9		0.9	
172 of 226	Expected	3.00		2.00		2.00	1.00		1.00	2.00	1.00		1.00		1.00	1.00		1.00	1.00
	Actual	2.7		1.8		1.8	0.8		0.8	1.7	0.9		0.9		0.9	0.8		0.8	0.8

**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)
173 of 226	Expected	3.00		3.00		1.00	1.00		1.00	1.00	1.00		1.00		1.00	1.00			3.00
	Actual	2.8		2.8		0.9	0.8		0.9	0.9	0.9		0.9		0.9	0.8			2.6
174 of 226	Expected	5.00		2.00		2.00			1.00	2.00	1.00				1.00				3.00
	Actual	4.6		1.8		1.9			0.9	1.8	0.9				0.7				2.7
175 of 226	Expected	4.00		4.00		3.00			1.00	3.00									2.00
	Actual	3.6		3.7		2.8			0.9	2.7									1.6
176 of 226	Expected	3.00	1.00	4.00		3.00				4.00			1.00		1.00				
	Actual	2.7	0.9	3.6		2.7				3.6			0.9		0.8				
177 of 226	Expected	2.00	1.00	3.00		2.00	1.00		1.00	3.00			1.00		3.00				
	Actual	1.8	0.9	2.5		1.8	0.8		0.8	2.7			0.9		2.1				
178 of 226	Expected	2.00	1.00	1.00		2.00	1.00		2.00	3.00			1.00		4.00				
	Actual	1.8	0.9	0.9		1.8	0.9		1.8	2.7			0.9		3.6				
179 of 226	Expected	3.00	1.00	1.00		3.00			2.00	4.00					3.00				
	Actual	2.7	0.9	0.9		2.7			1.6	3.6					2.4				
180 of 226	Expected	3.00	1.00	1.00		5.00			2.00	4.00					1.00				
	Actual	2.8	0.9	0.9		4.6			1.8	3.6					0.9				
181 of 226	Expected	3.00	2.00	3.00		3.00	1.00		2.00	3.00									
	Actual	2.6	1.8	2.8		2.8	0.8		1.6	2.6									
182 of 226	Expected	3.00	2.00	3.00		2.00	1.00		2.00	3.00						1.00			
	Actual	2.7	1.8	2.8		1.8	0.9		1.7	2.7					0.8				
183 of 226	Expected	2.00	2.00	2.00		2.00	1.00		1.00	3.00					1.00	1.00		1.00	1.00
	Actual	1.9	1.7	1.8		1.5	0.8		0.7	2.7					0.8	0.9		0.9	0.9
184 of 226	Expected	2.00		2.00		2.00				4.00					3.00	2.00		1.00	1.00
	Actual	1.8		1.8		1.8				3.5					2.7	1.7		0.8	0.9
185 of 226	Expected	2.00		1.00		2.00				2.00	1.00		1.00		4.00	1.00		1.00	2.00
	Actual	1.5		0.9		1.8				1.6	0.8		0.9		3.1	0.8		0.7	1.6
186 of 226	Expected	3.00		1.00		2.00				1.00	2.00	1.00	1.00		3.00	1.00			2.00
	Actual	2.5		0.8		1.7				0.8	1.5	0.7	0.8		2.3	0.8			1.5
187 of 226	Expected	3.00		1.00	1.00	3.00					3.00	1.00	1.00		2.00				2.00
	Actual	2.5		0.8	0.7	2.4					2.5	0.8	0.9		1.4				1.8
188 of 226	Expected	1.00	1.00	2.00	1.00	3.00			1.00		2.00	1.00			3.00				2.00
	Actual	0.9	0.9	1.6	0.8	2.4			0.9		1.7	0.8			2.4				1.7
189 of 226	Expected		1.00	3.00	2.00	2.00	2.00		1.00		1.00		1.00		3.00				1.00
	Actual		0.9	2.6	1.6	1.8	1.9		0.9		0.9		0.9		2.2				0.9
190 of 226	Expected		1.00	3.00	1.00		2.00	1.00	3.00	1.00			1.00		3.00				1.00
	Actual		0.7	2.6	0.8		1.6	0.9	2.2	0.9			0.7		2.7				0.9
191 of 226	Expected	1.00		3.00	1.00	1.00	3.00	1.00	2.00	1.00				1.00	1.00			1.00	1.00
	Actual	0.9		2.1	0.7	0.9	2.2	0.9	0.0	0.9				0.9	0.8			0.9	0.9
192 of 226	Expected	1.00		1.00		1.00	1.00	1.00	3.00	2.00			2.00	1.00	1.00			2.00	1.00
	Actual	0.8		0.8		0.8	0.7	0.7	2.1	1.4				0.8	0.7			1.5	0.7
193 of 226	Expected	1.00		1.00			1.00	1.00	1.00	1.00	1.00		2.00	2.00	1.00	1.00		3.00	1.00
	Actual	0.7		0.7			0.8	0.9	0.9	0.9	0.9		1.8	1.8	0.9	0.9		2.4	0.9
194 of 226	Expected	1.00	1.00					1.00	1.00		1.00		2.00	1.00	1.00	2.00		3.00	3.00
	Actual	0.9	0.9					0.7	0.7		0.9		1.4	0.9	0.8	1.6		2.2	2.7
195 of 226	Expected	1.00	1.00		1.00		1.00		1.00	1.00	1.00			2.00	1.00	2.00		2.00	3.00
	Actual	0.9	0.9		0.8		0.8		0.8	0.8	0.8			1.6	0.9	1.5		1.4	2.2
196 of 226	Expected	2.00	2.00	1.00	1.00		3.00		2.00	1.00				1.00	1.00	1.00			2.00
	Actual	1.8	1.8	0.9	0.8		2.7		1.7	0.9				0.9	0.7	0.8			1.8
197 of 226	Expected	2.00	1.00	1.00	1.00		4.00		2.00	1.00	1.00			2.00	1.00			1.00	
	Actual	1.8	0.9	0.9	0.8		3.6		1.8	0.9	0.9			1.8	0.8			0.9	
198 of 226	Expected	1.00	1.00	4.00			3.00		1.00		1.00		1.00	1.00	1.00			1.00	2.00
	Actual	0.9	0.8	3.5			2.5		0.8		0.9		0.8	0.9	0.8			0.8	1.7
199 of 226	Expected			3.00			2.00				1.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00	2.00
	Actual			2.7			1.7				0.8	0.9	0.9	0.9	0.8	1.8	0.8	1.8	1.8
200 of 226	Expected			3.00			2.00					1.00		1.00	1.00	2.00	1.00	4.00	2.00
	Actual			2.1			1.6					0.7		0.9	0.8	1.5	0.7	2.8	1.4
201 of 226	Expected			1.00		2.00	2.00		1.00			1.00		2.00	1.00	2.00	1.00	4.00	
	Actual			0.9		1.8	1.5		0.9			0.8		1.8	0.8	1.6	0.8	3.5	

**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)
202 of 226	Expected			2.00		2.00	1.00		1.00			1.00		2.00	1.00	1.00		3.00	3.00
	Actual			1.9		1.8	0.8		0.9			0.9		1.7	0.8	0.9		2.7	2.7
203 of 226	Expected	1.00		3.00	1.00	1.00			1.00			1.00		1.00	1.00	2.00		1.00	4.00
	Actual	0.9		2.7	0.8	0.9			0.8			0.7		0.9	0.7	1.5		0.8	3.6
204 of 226	Expected	2.00		1.00	1.00						1.00	1.00		1.00	1.00	2.00		2.00	5.00
	Actual	1.8		0.9	0.8						0.9	0.7		0.9	0.7	1.6		1.6	4.1
205 of 226	Expected	2.00		2.00	1.00				1.00	1.00	1.00	1.00		1.00	1.00	2.00		2.00	2.00
	Actual	1.8		1.8	0.8				0.9	0.9	0.9	1.8		0.9	0.9	1.7		1.6	1.7
206 of 226	Expected	1.00		3.00					1.00	2.00	1.00	1.00	1.00	3.00	1.00	1.00		1.00	1.00
	Actual	0.9		2.7					0.8	1.8	0.8	0.8	0.9	2.7	0.8	0.8		0.8	0.8
207 of 226	Expected			4.00		3.00			1.00	3.00	1.00			1.00	2.00	1.00	1.00		
	Actual			3.6		2.8			0.8	2.7	0.9			0.9	1.8	0.7	0.7		
208 of 226	Expected			4.00		4.00				2.00	2.00			2.00	1.00		1.00	1.00	
	Actual			3.4		3.7				1.6	1.8			1.7	0.9		0.8	0.7	
209 of 226	Expected	1.00		3.00		4.00				2.00	1.00			1.00	1.00	1.00	1.00	1.00	1.00
	Actual	0.9		2.7		3.7				1.8	0.9			0.9	0.9	0.8	0.9	0.8	0.9
210 of 226	Expected	1.00		4.00		1.00			1.00	2.00	1.00			1.00	1.00	2.00	1.00		1.00
	Actual	0.9		3.6		0.9			0.9	1.8	0.9			0.9	0.9	1.6	0.8		0.9
211 of 226	Expected	1.00		4.00					1.00	4.00				1.00	1.00	1.00	1.00	1.00	2.00
	Actual	0.8		3.7					0.9	3.7				0.9	0.9	0.9	0.9	0.9	1.8
212 of 226	Expected		1.00	4.00		2.00			1.00	3.00		1.00	1.00			1.00		1.00	2.00
	Actual		0.9	3.6		1.9			0.9	0.9		0.9	0.9			0.8		0.8	1.8
213 of 226	Expected	1.00	1.00	2.00		4.00			1.00	3.00	1.00	1.00	1.00			1.00			1.00
	Actual	0.8	0.8	1.8		3.6			0.7	2.3	0.8	0.8	0.8			0.7			0.8
214 of 226	Expected	1.00	1.00	2.00		4.00			1.00	2.00	1.00	1.00			1.00			1.00	2.00
	Actual	0.9	0.7	1.8		3.6			0.9	1.7	0.9	0.7			0.9			0.9	1.7
215 of 226	Expected	1.00		3.00		3.00			2.00	3.00	2.00				1.00			1.00	1.00
	Actual	0.9		2.7		2.6			1.7	2.7	1.7				0.9			1.00	0.9
216 of 226	Expected			3.00		2.00	1.00		2.00	2.00	1.00				1.00	1.00		3.00	1.00
	Actual			2.8		1.8	0.9		1.8	1.8	0.9				0.8	0.9		2.8	0.9
217 of 226	Expected			2.00		1.00	1.00		2.00	1.00	2.00			1.00		1.00	2.00	3.00	1.00
	Actual			1.7		0.9	0.9		1.6	0.8	1.8			0.9		0.8	1.5	2.4	0.9
218 of 226	Expected					1.00	1.00		1.00	2.00	1.00			1.00		1.00	3.00	4.00	2.00
	Actual					0.8	0.8		0.8	1.7	0.7			0.9		0.7	2.5	3.1	1.7
219 of 226	Expected	2.00			1.00		1.00		1.00	3.00	1.00			1.00			3.00	1.00	3.00
	Actual	1.8			0.8		0.9		0.8	2.6	0.8			0.8			0.8	0.9	2.6
220 of 226	Expected	2.00			1.00		1.00		1.00	6.00		1.00	1.00				1.00		3.00
	Actual	1.5			0.6		0.8		0.7	4.8		0.6	0.8				0.7		2.3
221 of 226	Expected	2.00			3.00		1.00		1.00	4.00		1.00	2.00			1.00			2.00
	Actual	1.5			2.3		0.6		0.6	2.8		0.7	1.5			0.8			1.4
222 of 226	Expected				5.00		2.00		1.00	3.00			2.00		1.00	2.00			1.00
	Actual				3.7		1.6		0.7	2.5			1.8		0.6	1.5			0.9
223 of 226	Expected				6.00		4.00		1.00		2.00		1.00		1.00	2.00			
	Actual				4.8		3.1		0.7		1.6		0.8		0.8	1.6			
224 of 226	Expected			2.00	5.00		3.00				2.00		1.00		1.00	2.00		1.00	
	Actual			1.8	4.2		2.6				1.8		0.9		0.9	1.6		0.9	
225 of 226	Expected			2.00	3.00	2.00	3.00			1.00	2.00					1.00		2.00	1.00
	Actual			1.8	2.5	1.7	2.6			0.9	1.5					0.8		1.8	0.9
226 of 226	Expected			4.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00				1.00	2.00		2.00	1.00
	Actual			3.5	0.7	1.5	0.8	0.8	0.7	0.8	0.8				0.8	1.5		1.5	0.7

**Date:** 02 JUL 2007

**Signature:** Signature on File

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

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the vendor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.