

Peptide Array, Dengue Virus Type 4 (DEN-4), Singapore/8976/1995, NS5 Protein

Catalog No. NR-4205

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Product Description: The 156-peptide array spans the NS5 protein of Dengue virus type 4, Singapore/8976/1995 (GenPept: AAV31422). Peptides are 13- to 17-mers, with 11 to 14 amino acid overlaps.

Lot: N1032-1 to N1032-156

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.

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
1 of 156	11/3/2006	17	1 GTGTTGETLGEKWKRQL 17	1862.09	-1.21	93.5%	80.3%
2 of 156	11/3/2006	17	6 GETLGEKWKRQLNSLDR 22	2030.29	-1.54	95.2%	78.1%
3 of 156	11/3/2006	17	12 KWKRQLNSLDRKEFEEY 28	2269.56	-2.02	89.8%	76.8%
4 of 156	11/3/2006	17	18 NSLDRKEFEEYKRSGII 34	2084.33	-1.29	94.1%	78.5%
5 of 156	11/3/2006	17	23 KEFEEYKRSGIIEVDRT 39	2099.35	-1.26	85.9%	78.6%
6 of 156	11/3/2006	17	29 KRSGIIEVDRTEAKSAL 45	1873.16	-0.55	84.6%	76.7%
7 of 156	11/3/2006	17	34 IEVDRTEAKSALKDGSK 50	1847.07	-0.99	87.8%	76.4%
8 of 156	11/3/2006	17	39 TEAKSALKDGSKIKHAV 55	1783.07	-0.62	81.4%	72.3%
9 of 156	11/3/2006	17	45 LKDGSKIKHAVSRGSSK 61	1798.09	-0.97	92.8%	69.3%
10 of 156	11/3/2006	17	51 IKHAVSRGSSKIRWIVE 67	1966.33	-0.21	86.7%	74.2%
11 of 156	11/3/2006	16	57 RGSSKIRWIVERGMVK 72	1902.31	-0.55	82.0%	73.6%
12 of 156	11/3/2006	17	62 IRWIVERGMVKPKGKVV 78	1995.53	0.01	90.0%	74.5%
13 of 156	11/3/2006	17	68 RGMVKPKGKVVDLGCGR 84	1800.24	-0.39	81.9%	72.5%
14 of 156	11/3/2006	17	74 KGKVVDLGCGRGWSYY 90	1845.13	-0.44	91.0%	80.2%
15 of 156	11/3/2006	17	80 LGCGRGGWSYYMATLKN 96	1877.19	-0.28	84.9%	84.6%
16 of 156	11/3/2006	17	86 GWSYYMATLKNVTEVRG 102	1975.27	-0.35	84.4%	85.2%
17 of 156	11/3/2006	16	92 ATLKNVTEVRGFTKGG 107	1677.94	-0.36	81.0%	78.6%
18 of 156	11/3/2006	16	97 VTEVRGFTKGGPGHEE 112	1699.85	-0.97	89.3%	78.9%
19 of 156	11/3/2006	17	102 GFTKGGPGHEEIPMAT 118	1725.96	-0.64	91.1%	83.5%
20 of 156	11/3/2006	17	108 PGHEEIPMATYGNLNV 124	1911.18	-0.35	92.0%	89.3%
21 of 156	11/3/2006	17	114 IPMATYGNLNVKLHSGV 130	1886.26	0.44	85.8%	84.7%
22 of 156	11/3/2006	16	120 GWNLVKLHSGVDVFK 135	1862.18	0.08	87.6%	80.3%
23 of 156	11/3/2006	17	125 KLHSGVDVFKPTEQVD 141	1962.21	-0.62	87.1%	81.1%
24 of 156	11/3/2006	17	131 DVFKPTEQVDTLLCDI 147	1999.28	0.01	91.2%	89.8%

Table 1							
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
25 of 156	11/3/2006	17	137 TEQVDTLLCDIGESSN 153	1810.92	-0.38	81.9%	88.8%
26 of 156	11/3/2006	17	143 LLCDIGESSNPTIEEG 159	1763.91	-0.23	81.9%	88.6%
27 of 156	11/3/2006	17	148 GESSNPTIEEGRTLRLV 164	1831.97	-0.98	93.1%	84.3%
28 of 156	11/3/2006	16	154 PTIEEGRTLRLVKMVE 169	1871.25	-0.27	89.4%	80.4%
29 of 156	11/3/2006	17	159 GRTLRLVKMVEPWLSSK 175	2000.46	-0.22	84.1%	77.8%
30 of 156	11/3/2006	17	165 LKMVEPWLSSKPEFCIK 181	2035.52	-0.05	94.5%	81.7%
31 of 156	11/3/2006	17	171 WLSSKPEFCIKVLNPYM 187	2055.51	0.1	96.2%	85.7%
32 of 156	11/3/2006	17	176 PEFCIKVLNPYMPTVIE 192	1993.43	0.42	86.8%	89.7%
33 of 156	11/3/2006	17	182 VLNPYMPTVIEELEKLQ 198	2016.40	-0.02	85.2%	89.8%
34 of 156	11/3/2006	17	188 PTVIEELEKLQRKHGGN 204	1948.23	-1.16	86.5%	77.4%
35 of 156	11/3/2006	17	194 LEKLQRKHGGNLVRCPL 210	1961.38	-0.65	90.4%	74.1%
36 of 156	11/3/2006	17	200 KHGGNLVRCPLSRNSTH 216	1876.15	-0.98	93.8%	73.3%
37 of 156	11/3/2006	16	206 VRCPLSRNSTHEMYWV 221	1978.30	-0.54	88.5%	81.3%
38 of 156	11/3/2006	17	211 SRNSTHEMYWVSGASGN 227	1883.00	-1.01	87.4%	84.6%
39 of 156	11/3/2006	17	216 HEMYWVSGASGNVSSV 232	1823.03	0.26	81.3%	88.9%
40 of 156	11/3/2006	17	222 SGASGNVSSVNTTSKM 238	1639.82	-0.03	89.9%	87.8%
41 of 156	11/3/2006	17	228 IVSSVNTTSKMLLNRF 244	1911.27	0.31	81.9%	84.8%
42 of 156	11/3/2006	16	234 TTSKMLLNRFTRHRK 249	1990.38	-1.21	87.6%	71.4%
43 of 156	11/3/2006	17	239 LLNRFTRHRKPTYEKD 255	2175.50	-1.74	89.2%	73.2%
44 of 156	11/3/2006	17	245 TRHRKPTYEKDVDLGAG 261	1943.17	-1.52	85.4%	74.0%
45 of 156	11/3/2006	17	251 TYEKDVDLGAGTRSVST 267	1798.94	-0.63	84.9%	84.0%
46 of 156	11/3/2006	17	257 DLGAGTRSVSTETEKPD 273	1762.86	-1.1	89.9%	83.8%
47 of 156	11/3/2006	17	263 RSVSTETEKPDMTIIGR 279	1920.19	-0.82	89.5%	80.8%
48 of 156	11/3/2006	17	269 TEKPDMTIIGRRLQLR 285	2055.45	-0.96	87.6%	78.3%
49 of 156	11/3/2006	17	275 TIIGRRLQLRQEEHKET 291	2107.42	-1.37	90.4%	75.5%
50 of 156	11/3/2006	17	281 LQRLQEEHKETWHYDQE 297	2269.43	-2.24	89.3%	79.9%
51 of 156	11/3/2006	17	284 LQEEHKETWHYDQENPY 300	2246.35	-2.37	89.1%	83.1%
52 of 156	11/3/2006	17	289 KETWHYDQENPYRTWAY 305	2287.45	-2.12	90.4%	83.4%
53 of 156	11/3/2006	17	295 DQENPYRTWAYHGSYEA 311	2087.17	-1.76	84.1%	85.9%
54 of 156	11/3/2006	17	301 RTWAYHGSYEAPSTGSA 317	1840.94	-0.91	81.5%	84.3%
55 of 156	11/3/2006	17	307 GSYEAPSTGSASSMVNG 323	1601.68	-0.36	84.4%	87.5%
56 of 156	11/3/2006	17	313 STGSASSMVNGVVKLLT 329	1650.93	0.65	88.4%	87.9%
57 of 156	11/3/2006	17	319 SMVNGVVKLLTKPWDVI 335	1899.34	0.68	90.8%	84.7%
58 of 156	11/3/2006	17	325 VKLLTKPWDVIPMVTQL 341	1981.49	0.59	91.4%	85.3%
59 of 156	11/3/2006	17	331 PWDVIPMVTQLAMTDTT 347	1919.26	0.29	86.0%	89.4%
60 of 156	11/3/2006	17	337 MVTQLAMTDTTDFGQQR 353	1925.23	-0.41	93.3%	89.4%
61 of 156	11/3/2006	17	343 MDTTDFGQQRVFKEKV 359	2012.33	-0.85	89.3%	81.5%
62 of 156	11/3/2006	17	349 FGQQRVFKEKVDTRTPQ 365	2064.35	-1.39	86.8%	78.4%
63 of 156	11/3/2006	17	355 FKEKVDTRTPQPKPGTR 371	1985.29	-1.85	92.7%	74.4%
64 of 156	11/3/2006	17	361 TRTPQPKPGTRMVMTTT 377	1903.27	-1.05	91.7%	80.7%
65 of 156	11/3/2006	17	367 KPGTRMVMTTTANWLWT 383	1994.38	-0.33	87.1%	85.4%
66 of 156	11/3/2006	17	373 VMTTANWLWTLLGKKK 389	1991.44	-0.05	92.6%	81.4%
67 of 156	11/3/2006	17	379 NWLWTLLGKKKNPRLCT 395	2071.54	-0.63	87.9%	78.4%
68 of 156	11/3/2006	16	385 LGKKKNPRLCTREEFI 400	1932.34	-1.03	89.5%	73.9%
69 of 156	11/3/2006	17	390 NPRLCTREEFISKVRSN 406	2049.36	-1.03	82.6%	78.2%
70 of 156	11/3/2006	17	396 REEFISKVRSNAIGAV 412	1847.12	0.01	86.2%	80.2%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
71 of 156	11/3/2006	17	402 KVRSNAAIGAVFQEEQG 418	1804.01	-0.38	92.9%	84.1%
72 of 156	11/3/2006	17	408 AIGAVFQEEQGWTSASE 424	1809.92	-0.27	81.8%	88.8%
73 of 156	11/3/2006	16	413 FQEEQGWTSASEAVND 428	1797.82	-1.09	83.1%	88.7%
74 of 156	11/3/2006	17	418 GWTSASEAVNDSRFWEL 434	1955.09	-0.55	94.6%	89.6%
75 of 156	11/3/2006	17	423 SEAVNDSRFWELVDKER 439	2080.26	-1.15	88.4%	82.0%
76 of 156	11/3/2006	17	429 SRFWELVDKERALHQEG 445	2100.34	-1.14	88.2%	78.7%
77 of 156	11/3/2006	17	435 VDKERALHQEGRCESC 451	1959.21	-0.93	92.9%	77.5%
78 of 156	11/3/2006	17	441 LHQEGRCESCIVNMMGV 457	1985.33	-0.69	90.5%	81.3%
79 of 156	11/3/2006	17	447 CESCIVNMMGKREKKG 463	1976.40	-0.75	85.1%	77.6%
80 of 156	11/3/2006	17	453 NMMGKREKKGEGFRAG 469	1980.40	-1.42	89.8%	71.3%
81 of 156	11/3/2006	17	458 REKKGEGFRAGKSRAI 474	1903.23	-1.15	89.9%	70.5%
82 of 156	11/3/2006	17	463 GEGFRAGKSRAIYMWL 479	2028.38	-0.29	88.1%	81.6%
83 of 156	11/3/2006	17	469 KGSRAIYMWLGARFLE 485	2084.49	-0.04	81.5%	82.1%
84 of 156	11/3/2006	17	475 YMWLGARFLEFEALGF 491	2136.52	0.58	Unknown ^c	90.4%
85 of 156	11/3/2006	17	481 ARFLEFEALGFLNEDHW 497	2094.33	-0.18	89.3%	86.0%
86 of 156	11/3/2006	17	486 FEALGFLNEDHWFNGREN 502	2081.25	-0.74	92.1%	85.9%
87 of 156	11/3/2006	17	492 LNEHWFNGRENSWSGVE 508	2062.16	-1.3	88.2%	85.8%
88 of 156	11/3/2006	17	498 FGRENSWSGVEGEGHR 514	1917.04	-1.15	84.9%	80.8%
89 of 156	11/3/2006	17	504 WSGVEGEGHRLGYILE 520	1915.15	-0.16	94.4%	84.8%
90 of 156	11/3/2006	17	509 GEGHRLGYILEDIDKK 525	1956.25	-0.68	88.1%	77.4%
91 of 156	11/3/2006	17	515 LGYILEDIDKKDGLMY 531	2001.30	-0.38	92.6%	85.4%
92 of 156	11/3/2006	17	521 DIDKKDGLMYADDTAG 537	1842.97	-1.05	84.3%	84.3%
93 of 156	11/3/2006	17	527 GDLMYADDTAGWDTRIT 543	1901.05	-0.58	81.4%	89.3%
94 of 156	11/3/2006	17	533 DDTAGWDTRITEDDLQN 549	1964.99	-1.52	91.9%	89.6%
95 of 156	11/3/2006	17	539 DTRITEDDLQNEELITE 555	2034.13	-1.26	89.4%	89.9%
96 of 156	11/3/2006	17	545 DDLQNEELITEQMAPHH 561	2020.18	-1.23	86.2%	85.5%
97 of 156	11/3/2006	17	549 NEELITEQMAPHHKILA 565	1974.28	-0.47	86.9%	81.2%
98 of 156	11/3/2006	17	554 TEQMAPHHKILAKAIFK 570	1963.39	-0.26	87.7%	74.2%
99 of 156	11/3/2006	17	560 HHKILAKAIFKLYQNK 576	2053.50	-0.47	91.5%	72.0%
100 of 156	11/3/2006	17	566 KAIFKLYQNKVVKVL 582	2048.57	0.01	82.4%	75.0%
101 of 156	11/3/2006	17	572 TYQNKVVKVL RPTPRGA 588	1927.30	-0.7	96.5%	77.2%
102 of 156	11/3/2006	16	578 VKVLRPTPRGAVMDII 593	1765.21	0.52	95.6%	79.5%
103 of 156	11/3/2006	17	583 PTPRGAVMDIISRKDQR 599	1940.27	-0.95	92.2%	77.3%
104 of 156	11/3/2006	17	589 VMDIISRKDQRGSGQVG 605	1846.11	-0.61	99.6%	80.2%
105 of 156	11/3/2006	17	595 RKDQRGSGQVGTYLNT 611	1837.00	-1.41	80.5%	80.1%
106 of 156	11/3/2006	17	601 SGQVGTYLNTFTNMEV 617	1818.01	-0.15	96.8%	88.9%
107 of 156	11/3/2006	17	607 YGLNTFTNMEVQLIRQM 623	2058.42	-0.13	94.9%	90.0%
108 of 156	11/3/2006	17	613 TNMEVQLIRQMEAEQVI 629	1961.30	0.01	90.4%	89.6%
109 of 156	11/3/2006	17	619 LIRQMEAEQVITQDDMQ 635	1977.26	-0.44	88.8%	89.7%
110 of 156	11/3/2006	17	625 AEGVITQDDMQNPKGLK 641	1844.09	-0.92	95.3%	84.4%
111 of 156	11/3/2006	17	630 TQDDMQNPKGLKERVEK 646	2016.28	-1.97	95.3%	78.0%
112 of 156	11/3/2006	17	636 NPKGLKERVEKWLKECG 652	2014.40	-1.36	88.5%	74.7%
113 of 156	11/3/2006	17	641 KERVEKWLKECGVDRLK 657	2116.53	-1.26	99.5%	72.6%
114 of 156	11/3/2006	17	647 WLKECGVDRLKRMAISG 663	1962.38	-0.22	96.4%	77.5%
115 of 156	11/3/2006	17	653 VDRLKRMAISGDDCVVK 669	1905.29	-0.08	83.0%	77.0%
116 of 156	11/3/2006	17	659 MAISGDDCVVKPLDERF 675	1895.20	0.03	91.9%	84.7%
117 of 156	11/3/2006	17	665 DCVVKPLDERFSTSLLF 681	1969.30	0.3	91.2%	85.2%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
118 of 156	11/3/2006	17	671 LDERFSTLLFLNDMGK 687	1986.29	-0.14	90.9%	85.3%
119 of 156	11/3/2006	16	677 TLLFLNDMGKVRKDI 692	1850.23	0.01	91.6%	80.2%
120 of 156	11/3/2006	15	682 LNDMGKVRKDIPQWE 696	1829.12	-1.22	95.8%	80.0%
121 of 156	11/3/2006	17	686 GKVRKDIPQWEPSKGWK 702	2039.39	-1.68	97.9%	74.9%
122 of 156	11/3/2006	16	692 IPQWEPSKGWKNWQEV 707	2012.27	-1.48	97.6%	85.5%
123 of 156	11/3/2006	17	697 PSKGWKNWQEVFCSHH 713	2067.33	-1.31	94.9%	78.4%
124 of 156	11/3/2006	17	703 NWQEVFCSHHFKIFM 719	2187.55	-0.34	91.3%	79.3%
125 of 156	11/3/2006	17	709 FCSHHFKIFMKDGRSL 725	2090.48	-0.37	96.6%	72.4%
126 of 156	11/3/2006	17	715 HKIFMKDGRSLVPCRN 731	2000.44	-0.35	93.5%	74.5%
127 of 156	11/3/2006	17	721 DGRSLVPCRNQDELIG 737	1871.12	-0.39	88.2%	84.5%
128 of 156	11/3/2006	17	727 VPCRNQDELIGRARISQ 743	1955.24	-0.74	88.6%	81.1%
129 of 156	11/3/2006	17	733 DELIGRARISQGAGWSL 749	1829.06	-0.18	88.6%	84.2%
130 of 156	11/3/2006	17	739 ARISQGAGWSLRETAQL 755	1819.09	0	91.2%	84.2%
131 of 156	11/3/2006	17	745 AGWSLRETAQLGKAYAQ 761	1825.09	-0.15	89.2%	84.2%
132 of 156	11/3/2006	17	750 RETAQLGKAYQMWSLM 766	1959.36	-0.01	83.7%	85.1%
133 of 156	11/3/2006	17	756 GKAYQMWSLMYFHRRD 772	2160.53	-0.81	90.3%	79.1%
134 of 156	11/3/2006	17	762 MWSLMYFHRRDLRLASM 778	2213.70	-0.14	86.6%	79.5%
135 of 156	11/3/2006	17	768 FHRRDLRLASMAICSAV 784	1946.34	0.42	93.4%	77.4%
136 of 156	11/3/2006	16	774 RLASMAICSAVPTWF 789	1782.13	0.77	80.1%	88.7%
137 of 156	11/3/2006	17	779 AICSAVPTWFPTSRTT 795	1867.13	0.06	92.3%	89.1%
138 of 156	11/3/2006	17	785 PTEWFPTSRTTWSIAH 801	2054.27	-0.86	92.4%	81.8%
139 of 156	11/3/2006	17	791 TSRTTWSIAHHQWMTT 807	2081.32	-0.96	96.2%	78.5%
140 of 156	11/3/2006	17	797 SIHAHHQWMTTEDMLKV 813	2064.39	-0.53	92.7%	78.4%
141 of 156	11/3/2006	17	802 HQWMTTEDMLKVWNRVW 818	2260.64	-0.81	86.9%	83.2%
142 of 156	11/3/2006	16	807 TEDMLKVWNRVWIEDN 822	2048.32	-0.83	95.3%	85.7%
143 of 156	11/3/2006	17	812 KVWNRVWIEDNPNMTDK 828	2145.44	-1.33	87.0%	82.5%
144 of 156	11/3/2006	17	818 WIEDNPNMTDKTPVHSW 834	2070.29	-1.25	81.4%	85.8%
145 of 156	11/3/2006	17	824 NMTDKTPVHSWEDVPYL 840	2032.28	-0.86	90.2%	85.6%
146 of 156	11/3/2006	17	830 PVHSWEDVPYLGKREDL 846	2040.28	-0.95	98.2%	81.7%
147 of 156	11/3/2006	17	836 DVPYLGKREDLWCGSLI 852	1964.29	-0.1	94.2%	85.2%
148 of 156	11/3/2006	17	842 KREDLWCGSLIGLSSRA 858	1891.20	-0.22	86.6%	80.6%
149 of 156	11/3/2006	17	848 CGSLIGLSSRATWAKNI 864	1777.09	0.35	94.3%	83.9%
150 of 156	11/3/2006	17	854 LSSRATWAKNIHTAITQ 870	1898.17	-0.29	96.8%	80.6%
151 of 156	11/3/2006	17	860 WAKNIHTAITQVRNLIG 876	1935.28	0.02	86.6%	80.9%
152 of 156	11/3/2006	17	866 TAITQVRNLIGKEEYVD 882	1949.21	-0.35	96.2%	85.1%
153 of 156	11/3/2006	17	872 RNLIGKEEYVDYMPVMK 888	2085.49	-0.61	87.5%	82.1%
154 of 156	11/3/2006	16	877 KEEYVDYMPVMKRYSA 892	2009.35	-0.94	94.4%	81.5%
155 of 156	11/3/2006	17	882 DYMPVMKRYSAPESESEG 898	1947.19	-1.04	81.8%	85.1%
156 of 156	11/3/2006	13	888 KRYSAPESESEGLV 900	1422.57	-0.87	98.4%	80.6%

^a% full-length

^bRemainder is salt and water

^cPeptide incompatible with HPLC conditions

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 156	Expected		1.00			3.00	4.00			2.00	2.00					4.00	1.00		
	Actual		1.10			3.00	4.07			1.87	1.72					3.79	0.00 ^a		
2 of 156	Expected		2.00	2.00		3.00	2.00			3.00	2.00				1.00	1.00	1.00		
	Actual		2.06	1.84		3.00	2.15			2.83	1.86				1.08	1.00	0.00 ^a		
3 of 156	Expected		2.00	2.00		4.00				2.00	3.00		1.00		1.00		1.00	1.00	
	Actual		2.15	1.89		3.71				1.78	2.92		1.00		1.06		0.00 ^a	1.20	
4 of 156	Expected		2.00	2.00		3.00	1.00		2.00	1.00	2.00		1.00		2.00			1.00	
	Actual		2.00	1.77		2.77	1.13		0.77 ^b	0.93	1.83		0.93		1.86			1.06	
5 of 156	Expected		2.00	1.00		4.00	1.00		2.00		2.00		1.00		1.00	1.00		1.00	1.00
	Actual		2.00	0.90		4.06	1.01		0.71 ^b		1.82		0.93		1.05	1.00		1.06	0.96
6 of 156	Expected	2.00	2.00	1.00		2.00	1.00		2.00	1.00	2.00				2.00	1.00			1.00
	Actual	1.91	1.98	0.90		1.77	0.96		0.81 ^b	1.02	1.95				2.07	1.00			1.01
7 of 156	Expected	2.00	1.00	2.00		2.00	1.00		1.00	1.00	3.00				2.00	1.00			1.00
	Actual	1.95	1.18	1.80		1.80	1.11		0.82	0.99	2.70				2.03	0.94			1.00
8 of 156	Expected	3.00		1.00		1.00	1.00	1.00	1.00	1.00	4.00				2.00	1.00			1.00
	Actual	2.76		0.97		0.90	1.05	1.07	0.79	0.89	3.82				1.99	1.00			1.09
9 of 156	Expected	1.00	1.00	1.00			2.00	1.00	1.00	1.00	4.00				4.00				1.00
	Actual	1.00	1.08	0.87			1.94	1.06	0.73	0.84	3.55				3.96				1.01
10 of 156	Expected	1.00	2.00			1.00	1.00	1.00	3.00		2.00				3.00		1.00		2.00
	Actual	1.06	1.85			0.97	1.03	1.07	1.74 ^b		2.00				2.72		0.00 ^a		1.47 ^b
11 of 156	Expected		3.00			1.00	2.00		2.00		2.00	1.00			2.00		1.00		2.00
	Actual		3.00			1.07	2.14		1.42 ^b		1.87	0.97			1.82		0.00 ^a		1.48 ^b
12 of 156	Expected		2.00			1.00	2.00		2.00		3.00	1.00		1.00			1.00		4.00
	Actual		2.00			1.02	2.13		1.41 ^b		2.94	0.95		1.07			0.00 ^a		2.32 ^b
13 of 156	Expected		2.00	1.00	1.00		4.00			1.00	3.00	1.00		1.00					3.00
	Actual		2.00	0.94	0.59 ^c		3.95			1.08	2.71	1.07	0.00	1.09					1.88 ^b
14 of 156	Expected		1.00	1.00	1.00		5.00			1.00	2.00				1.00		1.00	2.00	2.00
	Actual		1.12	1.03	0.50 ^c		4.78			0.97	2.09				1.01		0.00 ^a	2.00	1.29 ^b
15 of 156	Expected	1.00	1.00	1.00	1.00		4.00			2.00	1.00	1.00			1.00	1.00	1.00	2.00	
	Actual	1.01	1.06	1.00	0.57 ^c		3.79			1.85	0.98	0.96			0.89	1.00	0.00 ^a	1.90	
16 of 156	Expected	1.00	1.00	1.00		1.00	2.00			1.00	1.00	1.00			1.00	2.00	1.00	2.00	2.00
	Actual	1.09	0.97	1.07		1.07	2.00			0.93	1.02	0.94			0.94	1.75	0.00 ^a	1.75	1.92
17 of 156	Expected	1.00	1.00	1.00		1.00	3.00			1.00	2.00		1.00			3.00			2.00
	Actual	1.07	1.03	1.00		1.03	2.72			0.90	1.76		0.98			2.73			1.93
18 of 156	Expected		1.00			3.00	4.00	1.00			1.00		1.00	1.00		2.00			2.00
	Actual		1.10			2.90	3.97	1.11			0.93		1.02	1.15		1.91			2.00
19 of 156	Expected	1.00				2.00	4.00	1.00	1.00		1.00	1.00	1.00	3.00		2.00			
	Actual	1.01				1.97	3.70	1.02	1.07		0.76	1.00	1.00	2.71		1.76			
20 of 156	Expected	1.00		1.00		2.00	2.00	1.00	1.00	1.00		1.00		3.00		1.00	1.00	1.00	1.00
	Actual	1.04		0.94		1.76	2.00	1.06	0.96	0.92		0.93	0.00	2.76		0.87	0.00 ^a	1.09	0.94
21 of 156	Expected	1.00		1.00			2.00	1.00	1.00	2.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	2.00
	Actual	1.00		0.94			2.01	1.19	0.90	1.79	0.80	0.83		1.19	0.99	0.97	0.00 ^a	1.11	1.93
22 of 156	Expected			2.00			2.00	1.00		2.00	2.00		1.00		1.00		1.00	1.00	3.00
	Actual			1.84			2.00	1.19		1.79	1.74		0.85		1.03		0.00 ^a	1.16	2.80
23 of 156	Expected			2.00		2.00	1.00	1.00		1.00	2.00		1.00	1.00	1.00	1.00		1.00	3.00
	Actual			1.78		1.80	1.07	1.09		0.91	1.87		0.81	1.04	1.00	0.89		1.07	2.77
24 of 156	Expected			3.00	1.00	2.00			1.00	2.00	1.00		1.00	1.00		2.00		1.00	2.00
	Actual			2.84	0.57 ^c	2.00			1.11	1.91	0.88		0.96	1.20		1.74		1.28	1.92

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)
25 of 156	Expected			3.00	1.00	3.00	1.00		1.00	2.00					3.00	2.00			1.00
	Actual			3.00	0.43 ^c	2.76	1.00		1.01	1.96					2.76	1.70			0.93
26 of 156	Expected			2.00	1.00	3.00	2.00		2.00	2.00				1.00	3.00	1.00			
	Actual			1.99	0.55 ^c	3.00	2.18		2.06	1.99				1.23	2.79	1.07			
27 of 156	Expected		2.00	1.00		3.00	2.00		1.00	1.00				1.00	3.00	2.00			1.00
	Actual		2.00	0.71		2.81	2.08		1.02	1.02				1.07	2.77	1.77			1.09
28 of 156	Expected		2.00			3.00	1.00		1.00	2.00	1.00	1.00		1.00		2.00			2.00
	Actual		2.15			2.68	1.00		1.04	1.80	0.98	1.10		1.23		2.00			1.90
29 of 156	Expected		2.00			1.00	1.00			3.00	2.00	1.00		1.00	2.00	1.00	1.00		2.00
	Actual		2.00			0.93	1.01			2.80	1.71	0.91		1.14	1.82	1.07	0.00 ^a		1.65
30 of 156	Expected				1.00	2.00			1.00	2.00	3.00	1.00	1.00	2.00	2.00			1.00	1.00
	Actual				0.50 ^c	1.90			0.87	1.75	2.73	1.06	0.99	2.09	1.92		0.00 ^a		1.00
31 of 156	Expected			1.00	1.00	1.00			1.00	2.00	2.00	1.00	1.00	2.00	2.00		1.00	1.00	1.00
	Actual			1.02	0.54 ^c	0.99			0.84	1.75	1.83	1.03	0.89	2.00	1.87		0.00 ^a	1.07	0.92
32 of 156	Expected			1.00	1.00	2.00			2.00	1.00	1.00	1.00	1.00	3.00		1.00		1.00	2.00
	Actual			1.03	0.52 ^c	1.90			1.49 ^b	0.90	0.86	1.00	0.99	2.88		1.00		1.18	1.62 ^b
33 of 156	Expected			1.00		4.00			1.00	3.00	1.00	1.00		2.00		1.00		1.00	2.00
	Actual			1.01		3.84			0.79 ^b	2.78	0.92	1.07		2.00		1.05		1.10	1.68 ^b
34 of 156	Expected		1.00	1.00		4.00	2.00	1.00	1.00	2.00	2.00			1.00		1.00			1.00
	Actual		1.16	0.75		3.84	1.78	1.23	0.86 ^b	1.91	1.94			1.14		1.00			0.88 ^b
35 of 156	Expected		2.00	1.00	1.00	2.00	2.00	1.00		4.00	2.00			1.00					1.00
	Actual		2.00	0.93	0.52 ^c	1.72	2.01	1.05		3.73	1.62			1.12					1.03
36 of 156	Expected		2.00	2.00	1.00		2.00	2.00		2.00	1.00			1.00	2.00	1.00			1.00
	Actual		1.80	2.00	0.52 ^c		1.93	1.91		1.72	0.90			1.07	1.83	1.04			1.01
37 of 156	Expected		2.00	1.00	1.00	1.00		1.00		1.00		1.00		1.00	2.00	1.00	1.00	1.00	2.00
	Actual		1.84	1.00	0.59 ^c	0.97		1.13		0.97		1.00		1.11	1.87	0.99	0.00 ^a	1.07	1.76
38 of 156	Expected	1.00	1.00	2.00		1.00	2.00	1.00						1.00		4.00	1.00	1.00	1.00
	Actual	1.00	1.22	1.87		1.06	1.88	1.15				0.71			3.74	0.97	0.00 ^a	1.01	0.92
39 of 156	Expected	1.00		1.00		1.00	2.00	1.00	1.00					1.00		4.00		1.00	3.00
	Actual	1.12		1.13		1.10	2.00	1.03	0.54 ^b			0.87			3.76		0.00 ^a	0.95	2.07 ^b
40 of 156	Expected	1.00		2.00			2.00	0.00	1.00		1.00	1.00			5.00	2.00			2.00
	Actual	0.71		2.29			2.16	0.00	0.81 ^b		1.12	1.00			4.76	2.04			1.85 ^b
41 of 156	Expected		1.00	2.00					1.00	2.00	1.00	1.00	1.00		3.00	3.00			2.00
	Actual		1.28	2.00					0.62 ^b	1.88	1.19	1.06	1.01		2.87	2.62			1.24 ^b
42 of 156	Expected		3.00	1.00				1.00		2.00	2.00	1.00	1.00		1.00	4.00			
	Actual		2.78	0.93				1.16		1.70	1.69	1.03	1.00		1.13	3.69			
43 of 156	Expected		3.00	2.00		1.00		1.00		2.00	2.00		1.00	1.00		3.00		1.00	
	Actual		2.71	1.83		0.98		1.17		1.65	1.71		0.95	1.00		2.79		1.02	
44 of 156	Expected	1.00	2.00	2.00		1.00	2.00	1.00		1.00	2.00			1.00		2.00		1.00	1.00
	Actual	0.81	1.86	1.84		0.99	1.78	1.16		0.92	1.81			1.03		1.76		1.03	1.00
45 of 156	Expected	1.00	1.00	2.00		1.00	2.00			1.00	1.00				2.00	3.00		1.00	2.00
	Actual	1.12	1.13	1.86		0.97	2.15			0.93	0.91				2.00	2.78		1.04	1.81
46 of 156	Expected	1.00	1.00	2.00		2.00	2.00			1.00	1.00			1.00	2.00	3.00			1.00
	Actual	1.08	1.07	1.78		1.81	2.06			1.05	0.82			0.95	1.95	2.79			1.00
47 of 156	Expected		2.00	1.00		2.00	1.00		2.00		1.00	1.00		1.00	2.00	3.00			1.00
	Actual		1.85	1.01		1.84	1.05		1.33 ^b		0.91	0.89		1.00	1.83	2.80			0.93
48 of 156	Expected		3.00	1.00		3.00	1.00		2.00	2.00	1.00	1.00		1.00		2.00			
	Actual		2.81	1.02		2.77	1.00		0.98 ^b	1.76	0.91	0.92		1.06		1.81			

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)
49 of 156	Expected		3.00			5.00	1.00	1.00	2.00	2.00	1.00					2.00			
	Actual		2.87			4.81	1.08	1.07	1.02 ^b	1.87	1.00					1.83			
50 of 156	Expected		1.00	1.00		7.00		2.00		2.00	1.00					1.00	1.00	1.00	
	Actual		1.09	1.11		6.74		1.96		1.81	1.08					1.06	0.00 ^a	1.00	
51 of 156	Expected			2.00		6.00		2.00		1.00	1.00			1.00		1.00	1.00	2.00	
	Actual			2.04		5.79		2.00		0.92	0.97			1.07		0.97	0.00 ^a	1.90	
52 of 156	Expected	1.00	1.00	2.00		3.00		1.00			1.00			1.00		2.00	2.00	3.00	
	Actual	1.00	1.08	1.81		2.78		1.07			1.03			1.08		1.74	0.00 ^a	2.87	
53 of 156	Expected	2.00	1.00	2.00		3.00	1.00	1.00						1.00	1.00	1.00	1.00	3.00	
	Actual	1.86	1.20	1.91		2.81	1.11	1.24						1.08	0.95	1.00	0.00 ^a	2.72	
54 of 156	Expected	3.00	1.00			1.00	2.00	1.00						1.00	3.00	2.00	1.00	2.00	
	Actual	2.77	1.07			0.95	1.88	1.19						1.00	2.78	1.84	0.00 ^a	1.85	
55 of 156	Expected	2.00		1.00		1.00	3.00					1.00		1.00	5.00	1.00		1.00	1.00
	Actual	2.00		0.83		1.01	3.19					1.00		1.15	4.89	0.95		1.21	0.94
56 of 156	Expected	1.00		1.00			2.00			2.00	1.00	1.00			4.00	2.00			3.00
	Actual	1.00		0.82			2.17			1.72	0.83	1.04			3.89	2.02			1.43 ^b
57 of 156	Expected			2.00			1.00		1.00	2.00	2.00	1.00		1.00	1.00	1.00	1.00		4.00
	Actual			1.89			1.16		0.48 ^b	1.93	1.79	0.93		1.11	1.00	1.09	0.00 ^a		1.73 ^b
58 of 156	Expected			1.00		1.00			1.00	3.00	2.00	1.00		2.00		2.00	1.00		3.00
	Actual			1.00		0.99			0.46 ^b	2.78	1.78	1.15		2.08		1.86	0.00 ^a		1.94 ^b
59 of 156	Expected	1.00		2.00		1.00			1.00	1.00		2.00		2.00		4.00	1.00		2.00
	Actual	1.10		2.00		1.06			0.49 ^b	1.05		1.94		2.07		3.82	0.00 ^a		1.41 ^b
60 of 156	Expected	1.00	1.00	1.00		3.00	1.00			1.00		2.00	1.00	1.00		4.00			1.00
	Actual	1.00	1.07	0.92		2.79	1.12			0.88		1.80	0.94	1.01		3.88			0.93
61 of 156	Expected		1.00	1.00		3.00	1.00					2.00	1.00	2.00	1.00	3.00			2.00
	Actual		1.13	1.00		2.75	1.24					1.89	1.05	1.73	1.07	2.70			1.74
62 of 156	Expected		2.00	1.00		4.00	1.00					2.00		2.00	1.00	2.00			2.00
	Actual		2.00	1.00		4.16	1.11					1.91		1.76	1.00	1.76			1.72
63 of 156	Expected		2.00	1.00		2.00	1.00					3.00		1.00	3.00	3.00			1.00
	Actual		2.01	1.06		2.01	1.14					2.85		0.96	2.77	2.72			0.92
64 of 156	Expected		2.00			1.00	1.00					1.00	2.00		3.00	6.00			1.00
	Actual		2.00			1.01	1.03					0.84	2.03		2.85	5.71			1.04
65 of 156	Expected	1.00	1.00	1.00			1.00			1.00	1.00	2.00		1.00		5.00	2.00		1.00
	Actual	1.03	1.15	0.86			1.12			0.92	0.79	1.80		1.00		4.73	0.00 ^a		0.93
66 of 156	Expected	1.00		1.00			1.00			3.00	3.00	1.00				4.00	2.00		1.00
	Actual	1.00		0.79			1.27			2.96	2.80	1.05				3.80	0.00 ^a		1.02
67 of 156	Expected		1.00	2.00	1.00		1.00			4.00	3.00			1.00		2.00	2.00		0.00
	Actual		1.14	1.72	0.52 ^c		1.22			3.78	2.88			1.17		2.00	0.00 ^a		0.00
68 of 156	Expected		2.00	1.00	1.00	2.00	1.00		1.00	2.00	3.00			1.00	1.00	1.00			
	Actual		2.11	0.88	0.61 ^c	1.75	1.10		1.02	1.74	2.70			1.04	1.12	1.00			
69 of 156	Expected		3.00	2.00	1.00	2.00			1.00	1.00	1.00			1.00	1.00	2.00	1.00		1.00
	Actual		2.75	1.89	0.43 ^c	2.18			0.95	0.89	1.01			1.00	0.92	2.16	1.03		1.07
70 of 156	Expected	3.00	2.00	1.00		2.00	1.00		2.00		1.00			1.00		2.00			2.00
	Actual	3.12	1.73	1.09		1.92	0.99		1.89		0.96			0.89		1.93			2.00
71 of 156	Expected	3.00	1.00	1.00		4.00	2.00		1.00		1.00			1.00	1.00				2.00
	Actual	2.83	1.03	1.00		3.90	2.16		1.00		0.95			0.87	0.98				1.80
72 of 156	Expected	3.00				5.00	2.00		1.00					1.00	2.00	1.00	1.00		1.00
	Actual	3.00				4.88	2.06		1.16					0.94	1.94	0.99	0.00 ^a		0.98

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)	
73 of 156	Expected	2.00		2.00		5.00	1.00						1.00		2.00	1.00	1.00		1.00	
	Actual	2.00		2.05		4.72	1.13						1.00		1.89	0.95	0.00 ^a		1.09	
74 of 156	Expected	2.00	1.00	2.00		2.00	1.00			1.00			1.00		3.00	1.00	2.00		1.00	
	Actual	2.00	1.14	1.91		1.85	1.17			1.03			1.13		3.02	0.95	0.00 ^a		1.16	
75 of 156	Expected	1.00	2.00	3.00		3.00				1.00	1.00		1.00		2.00		1.00		2.00	
	Actual	1.14	2.11	2.77		2.77				0.98	1.00		1.04		2.12		0.00 ^a		1.94	
76 of 156	Expected	1.00	2.00	1.00		4.00	1.00	1.00		2.00	1.00		1.00		1.00		1.00		1.00	
	Actual	0.92	2.00	0.92		3.79	0.76	1.00		1.72	0.92		0.94		1.01		0.00 ^a		0.97	
77 of 156	Expected	1.00	2.00	1.00	2.00	4.00	1.00	1.00		1.00	1.00				1.00				2.00	
	Actual	1.00	2.07	0.98	0.88 ^c	3.83	1.08	1.15		0.89	0.87				0.83				1.74	
78 of 156	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		1.14	1.00	0.94 ^c	2.79	2.14	1.17		0.91	1.11	1.79			0.74				1.00	0.86
79 of 156	Expected		1.00	1.00	2.00	2.00	2.00			1.00	3.00	2.00			1.00				1.00	1.00
	Actual		1.10	0.96	0.90 ^c	1.87	2.10			0.86	2.79	1.78			0.79				1.00	0.78
80 of 156	Expected	1.00	2.00	1.00		2.00	3.00			1.00	4.00	2.00	1.00							
	Actual	1.05	2.14	0.97		2.00	3.22			0.94	3.75	1.92	1.06							
81 of 156	Expected	2.00	3.00			2.00	3.00		1.00	1.00	3.00		1.00		1.00					
	Actual	1.94	2.91			1.82	3.10		0.98	0.93	2.82		1.00		1.00					
82 of 156	Expected	2.00	2.00			1.00	3.00		1.00	1.00	1.00	1.00	1.00		1.00		2.00	1.00		
	Actual	1.80	2.14			0.94	3.00		0.74	0.83	0.87	0.74	0.96		0.99		0.00 ^a	1.10		
83 of 156	Expected	2.00	2.00			1.00	2.00		1.00	2.00	1.00	1.00	1.00		1.00		2.00	1.00		
	Actual	1.78	2.00			0.94	2.15		0.84	1.72	0.80	0.91	0.87		1.01		0.00 ^a	1.05		
84 of 156	Expected	2.00	1.00			2.00	2.00			3.00		1.00	3.00				2.00	1.00		
	Actual	2.13	1.17			1.92	2.17			2.87		0.94	2.95				0.00 ^a	1.00		
85 of 156	Expected	2.00	1.00	2.00		3.00	1.00	1.00		3.00			3.00				1.00			
	Actual	2.00	1.07	1.86		2.88	1.25	1.08		2.78			2.85				0.00 ^a			
86 of 156	Expected	1.00	1.00	3.00		3.00	2.00	1.00		2.00			3.00				1.00			
	Actual	1.00	1.15	2.80		2.77	2.02	1.15		1.91			2.72				0.00 ^a			
87 of 156	Expected		1.00	3.00		3.00	2.00	1.00		1.00			1.00		2.00		2.00		1.00	
	Actual		1.16	2.74		2.80	2.03	1.15		0.89			0.90		2.00		2.00		0.00 ^a	1.05
88 of 156	Expected	2.00	1.00			3.00	4.00	1.00		1.00			1.00		2.00		1.00		1.00	
	Actual	2.00	0.97			2.80	3.74	1.09		0.82			1.00		1.85		0.00 ^a		1.06	
89 of 156	Expected		1.00			3.00	4.00	1.00	1.00	3.00					1.00		1.00	1.00	1.00	
	Actual		1.14			2.73	3.94	1.12	0.80	2.76					0.95		0.00 ^a	1.03	1.00	
90 of 156	Expected		1.00	2.00		2.00	3.00	1.00	2.00	3.00	2.00								1.00	
	Actual		1.18	1.82		1.81	3.00	1.18	1.81	2.83	1.73								1.16	
91 of 156	Expected			4.00		1.00	2.00		2.00	3.00	2.00	1.00							2.00	
	Actual			3.72		0.93	2.27		1.77	2.79	1.79	1.05							2.00	
92 of 156	Expected	2.00		6.00			2.00		1.00	1.00	2.00	1.00				1.00			1.00	
	Actual	1.74		5.85			2.00		1.07	1.13	1.71	1.15				0.79			1.16	
93 of 156	Expected	2.00	1.00	4.00			2.00		1.00	1.00		1.00				3.00	1.00	1.00		
	Actual	1.81	1.19	3.85			2.09		0.94	0.94		0.89				2.77	0.00 ^a	1.00		
94 of 156	Expected	1.00	1.00	6.00		2.00	1.00		1.00	1.00						3.00	1.00			
	Actual	1.00	1.06	5.74		1.85	1.12		0.94	0.93						2.71	0.00 ^a			
95 of 156	Expected		1.00	4.00		5.00			2.00	2.00						3.00				
	Actual		1.08	4.00		4.72			2.02	1.89						3.00				
96 of 156	Expected	1.00		3.00		5.00		2.00	1.00	2.00		1.00		1.00		1.00				
	Actual	1.01		2.73		4.39		2.00	0.97	1.92		1.04		1.07		0.92				

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)
122 of 156	Expected			1.00		4.00	1.00	0.00	1.00		2.00			2.00	1.00		3.00		1.00
	Actual			0.95		3.85	1.26	0.00	0.98		1.78			2.01	1.09		0.00 ^a		1.00
123 of 156	Expected			1.00	1.00	2.00	1.00	2.00			2.00		1.00	2.00	2.00		2.00		1.00
	Actual			0.80	0.63 ^c	1.86	1.16	2.18			1.92		1.03	2.00	2.03		0.00 ^a		0.98
124 of 156	Expected			1.00	1.00	2.00		3.00	1.00		1.00	1.00	3.00	1.00	1.00		1.00		1.00
	Actual			0.92	0.51 ^c	2.13		2.86	0.85		0.84	0.79	2.88	1.06	1.00		0.00 ^a		0.96
125 of 156	Expected		1.00	1.00	1.00		1.00	3.00	1.00	1.00	2.00	1.00	3.00		2.00				
	Actual		1.10	0.96	0.52 ^c		1.06	2.77	0.74	1.04	1.77	1.00	2.71		1.93				
126 of 156	Expected		2.00	2.00	1.00		1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00				2.00
	Actual		2.01	2.00	0.46 ^c		0.98	0.80	0.78	0.83	1.89	0.97	0.80	0.92	0.96				0.89 ^b
127 of 156	Expected		2.00	3.00	1.00	2.00	2.00		1.00	2.00				1.00	1.00				2.00
	Actual		1.94	3.19	0.51 ^c	2.14	1.81		0.81	1.77				1.00	1.00				0.91 ^b
128 of 156	Expected	1.00	3.00	2.00	1.00	3.00	1.00		2.00	1.00				1.00	1.00				1.00
	Actual	1.02	3.13	1.85	0.56 ^c	2.75	1.00		1.83	0.91				0.96	1.03				0.85
129 of 156	Expected	2.00	2.00	1.00		2.00	3.00		2.00	2.00					2.00		1.00		
	Actual	2.17	2.08	1.12		2.09	3.20		1.81	1.78					2.00		0.00 ^a		
130 of 156	Expected	3.00	2.00		1.00	2.00	2.00		1.00	2.00					2.00	1.00	1.00		
	Actual	3.01	1.94		0.46 ^c	2.17	2.09		1.07	1.94					2.05	1.11	0.00 ^a		
131 of 156	Expected	4.00	1.00		1.00	2.00	2.00			2.00	1.00				1.00	1.00	1.00	1.00	
	Actual	3.70	1.04		0.49 ^c	1.91	2.14			1.90	1.00				1.00	0.84	0.00 ^a	1.13	
132 of 156	Expected	3.00	1.00		1.00	2.00	1.00			2.00	1.00	2.00			1.00	1.00	1.00	1.00	
	Actual	2.70	1.02		0.56 ^c	1.95	0.94			1.78	1.00	1.75			0.94	0.87	0.00 ^a	1.02	
133 of 156	Expected	2.00	2.00	1.00		1.00	1.00	1.00		1.00	1.00	2.00	1.00		1.00		1.00	2.00	
	Actual	1.90	2.00	0.94		1.02	1.12	1.09		0.98	0.82	1.78	0.87		1.05		0.00 ^a	1.73	
134 of 156	Expected	1.00	3.00	1.00				1.00		3.00		3.00	1.00		2.00		1.00	1.00	
	Actual	0.99	3.00	1.09				1.02		2.80		3.20	0.92		2.16		0.00 ^a	1.27	
135 of 156	Expected	3.00	3.00	1.00	1.00			1.00	1.00	2.00		1.00	1.00		2.00				1.00
	Actual	2.82	2.90	1.12	0.50 ^c			0.95	0.95	1.74		1.05	0.80		2.02				1.00
136 of 156	Expected	3.00	1.00		1.00	1.00			1.00	1.00		1.00	1.00	1.00	2.00	1.00	1.00		1.00
	Actual	2.80	1.04		0.53 ^c	1.04			0.97	0.89		1.08	1.04	1.12	1.89	1.00	0.00 ^a		1.02
137 of 156	Expected	2.00	1.00		1.00	1.00			1.00				1.00	2.00	2.00	4.00	1.00		1.00
	Actual	2.00	1.11		0.55 ^c	1.00			1.00				1.01	1.98	1.97	3.77	0.00 ^a		1.04
138 of 156	Expected	1.00	1.00			1.00		2.00	1.00				1.00	2.00	2.00	4.00	2.00		
	Actual	1.03	1.13			1.11		2.00	1.00				1.00	2.02	2.12	3.75	0.00 ^a		
139 of 156	Expected	1.00	1.00			1.00	3.00	1.00				1.00			2.00	5.00	2.00		
	Actual	1.05	1.09			0.99	2.77	1.00				0.97			1.89	4.17	0.00 ^a		
140 of 156	Expected	1.00		1.00		2.00	3.00	1.00	1.00	1.00	2.00				1.00	2.00	1.00		1.00
	Actual	1.16		1.14		2.00	2.78	0.89	0.99	1.10	1.94				1.12	1.98	0.00 ^a		0.96
141 of 156	Expected		1.00	2.00		2.00		1.00		1.00	1.00	2.00				2.00	3.00		2.00
	Actual		1.06	2.00		1.79		0.96		0.84	1.15	1.78				1.77	0.00 ^a		1.87
142 of 156	Expected		1.00	4.00		2.00			1.00	1.00	1.00	1.00				1.00	2.00		2.00
	Actual		1.14	4.12		1.93			0.80	0.95	0.92	1.00				1.09	0.00 ^a		1.82
143 of 156	Expected		1.00	5.00		1.00			1.00		2.00	1.00		1.00		1.00	2.00		2.00
	Actual		1.19	4.77		1.00			0.95		1.80	0.86		1.18		1.11	0.00 ^a		1.76
144 of 156	Expected			4.00		1.00		1.00	1.00		1.00	1.00		2.00	1.00	2.00	2.00		1.00
	Actual			3.70		0.95		0.90	0.88		0.98	1.04		2.00	1.09	1.80	0.00 ^a		0.92
145 of 156	Expected			3.00		1.00		1.00		1.00	1.00	1.00		2.00	1.00	2.00	1.00	1.00	2.00
	Actual			2.83		1.00		1.02		1.00	0.93	1.12		2.06	1.04	1.87	0.00 ^a	1.11	1.89

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)	
146 of 156	Expected		1.00	2.00		2.00	1.00	1.00		2.00	1.00			2.00	1.00		1.00	1.00	2.00	
	Actual		1.17	1.90		1.88	1.12	0.84		1.87	0.90			1.98	1.04		0.00 ^a	1.00	1.83	
147 of 156	Expected		1.00	2.00	1.00	1.00	2.00		1.00	3.00	1.00			1.00	1.00		1.00	1.00	1.00	
	Actual		1.06	1.80	0.47 ^c	0.96	2.04		0.88	2.71	0.92			1.00	1.01		0.00 ^a	0.90	0.91	
148 of 156	Expected	1.00	2.00	1.00	1.00	1.00	2.00		1.00	3.00	1.00				3.00		1.00			
	Actual	1.02	2.00	1.04	0.43 ^c	1.03	2.12		0.99	2.78	0.93				2.74		0.00 ^a			
149 of 156	Expected	2.00	1.00	1.00	1.00		2.00		2.00	2.00	1.00				3.00	1.00	1.00			
	Actual	2.23	1.17	1.00	0.55 ^c		1.98		1.74	1.79	0.89				2.72	1.00	0.00 ^a			
150 of 156	Expected	3.00	1.00	1.00		1.00		1.00	2.00	1.00	1.00				2.00	3.00	1.00			
	Actual	2.94	1.07	1.00		1.01		0.90	1.84	0.88	1.08				1.76	2.68	0.00 ^a			
151 of 156	Expected	2.00	1.00	2.00		1.00	1.00	1.00	3.00	1.00	1.00					2.00	1.00		1.00	
	Actual	2.00	0.95	1.92		1.01	1.03	0.91	2.80	0.92	0.96					1.81	0.00 ^a		1.03	
152 of 156	Expected	1.00	1.00	2.00		3.00	1.00		2.00	1.00	1.00					2.00		1.00	2.00	
	Actual	1.13	0.89	2.06		2.85	1.29		2.09	1.07	1.01					2.07		1.00	1.90	
153 of 156	Expected		1.00	2.00		2.00	1.00		1.00	1.00	2.00	2.00		1.00				2.00	2.00	
	Actual		1.13	1.82		1.90	0.92		0.95	0.89	1.85	1.85		1.00				1.93	1.79	
154 of 156	Expected	1.00	1.00	1.00		2.00					2.00	2.00		1.00	1.00				3.00	2.00
	Actual	0.84	1.06	0.97		1.86					1.92	1.76		1.00	0.83				2.80	1.68
155 of 156	Expected	1.00	1.00	1.00		2.00	1.00				1.00	2.00		2.00	3.00				2.00	1.00
	Actual	1.00	1.05	1.04		1.83	0.79				0.91	2.01		1.93	2.95				2.05	1.05
156 of 156	Expected	1.00	1.00			2.00	1.00			1.00	1.00			1.00	3.00				1.00	1.00
	Actual	1.01	1.03			1.90	1.13			0.85	0.98			1.00	2.78				0.96	0.72

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

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