

.0. Peptide Array, Hepatitis C Virus, J4, NS5A Protein

Catalog No. NR-3745

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Product Description: The 71-peptide array spans the NS5A protein of hepatitis C virus, J4 (genotype 1b; GenPept: AAC15722). Peptides are 13- to 19-mers, with 11 amino acid overlaps.

Lot: N664-1 to N664-71

The following information applies to all peptides:

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

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

Table 1							
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
1 of 71	2/27/2006	16	1 SGSWLRD ¹ VWDWICTVL 16	1936.24	0.38	96.2%	89.5%
2 of 71	2/27/2006	18	6 RDVWDWICTVLTDFKTWL 23	2297.68	0.12	99.5%	87.0%
3 of 71	2/27/2006	18	13 CTVLTD ¹ FKTWLQSKLLPR 30	2149.6	0	99.2%	82.5%
4 of 71	2/27/2006	18	20 KTWLQSKLLPRLPGVPFL 37	2093.61	0.14	99.9%	82.1%
5 of 71	2/27/2006	18	27 LLPRLPGVPFLSCQRGYK 44	2044.51	0.03	99.5%	81.8%
6 of 71	2/27/2006	15	34 VPFLSCQRGYKGVWR 48	1796.14	-0.29	99.6%	79.8%
7 of 71	2/27/2006	16	38 SCQRGYKGVWRGDGIM 53	1813.11	-0.71	98.9%	79.9%
8 of 71	2/27/2006	19	43 YKGVWRGDGIMQTTCPGCA 61	2043.39	-0.25	98.1%	85.7%
9 of 71	2/27/2006	18	51 GIMQTTCPGCAQIAGHVK 68	1815.18	0.3	98.9%	84.1%
10 of 71	2/27/2006	18	58 PCGAQIAGHVKNGSMRIV 75	1838.2	0.18	99.1%	80.1%
11 of 71	2/27/2006	18	65 GHVKNGSMRIVGPRTCN 82	1913.23	-0.61	98.9%	77.0%
12 of 71	2/27/2006	17	72 MRIVGPRTCN ¹ TWHGTF 88	1963.29	-0.35	98.6%	81.2%
13 of 71	2/27/2006	16	78 RTCN ¹ TWHGTFPINAY 93	1868.08	-0.64	97.7%	84.5%
14 of 71	2/27/2006	18	83 TWHGTFPINAYTTGPCTP 100	1964.2	-0.36	97.9%	89.6%
15 of 71	2/27/2006	17	90 INAYTTGPCTPSPAPNY 106	1766.96	-0.51	99.1%	88.6%
16 of 71	2/27/2006	18	96 GPCTPSPAPNYSRALWRV 113	1972.27	-0.54	99.1%	85.2%
17 of 71	2/27/2006	17	103 APNYSRALWRVAEEYV 119	1995.24	-0.35	99.7%	85.4%
18 of 71	2/27/2006	16	109 ALWRVAEEYVEVTRV 124	1891.17	0.22	99.5%	84.7%
19 of 71	2/27/2006	17	114 AAEEYVEVTRVGD ¹ FHYV 130	1984.17	-0.13	98.4%	85.3%
20 of 71	2/27/2006	19	120 EVTRVGD ¹ FHYVTGMTD ¹ DNV 138	2141.36	-0.27	98.7%	86.2%
21 of 71	2/27/2006	17	128 HYVTGMTD ¹ DNVKCPCQV 144	1896.21	-0.21	97.3%	84.7%
22 of 71	2/27/2006	17	134 TTDNVK ¹ CPCQVPAPEFF 150	1896.19	-0.19	99.5%	89.3%
23 of 71	2/27/2006	18	140 CPCQVPAPEFFTEVDGVR 157	1994.29	0.03	96.2%	89.7%
24 of 71	2/27/2006	18	147 PEFFTEVDG ¹ VRLHRYAPA 164	2104.37	-0.38	87.7%	82.2%
25 of 71	2/27/2006	17	154 DGVRLHRYAPACKPLLR 170	1965.37	-0.43	95.2%	74.2%
26 of 71	2/27/2006	18	160 RYAPACKPLLR ¹ EDVTFQV 177	2106.49	-0.21	99.1%	82.2%

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
27 of 71	2/27/2006	18	167 PLLREDVTFQVGLNQYLV 184	2104.45	0.26	98.8%	90.2%
28 of 71	2/27/2006	15	174 TFQVGLNQYLVGSQL 188	1666.91	0.33	98.7%	88.0%
29 of 71	2/27/2006	19	178 GLNQYLVGSQLPCEPEPDV 196	2058.31	-0.34	98.5%	90.0%
30 of 71	2/27/2006	18	186 SQLPCEPEPDVTLTSM 203	1959.28	0.13	97.1%	89.6%
31 of 71	2/27/2006	17	193 EPDVTTLTSMILTDP SHI 209	1855.11	0.11	99.0%	89.1%
32 of 71	2/27/2006	18	199 LTSMLTDP SHITAETAKR 216	1972.26	-0.39	93.1%	81.2%
33 of 71	2/27/2006	15	206 PSHITAETAKRRLAR 220	1706.98	-0.95	89.4%	71.4%
34 of 71	2/27/2006	18	210 TAETAKRRLARGSPPSLA 227	1882.17	-0.71	98.8%	76.8%
35 of 71	2/27/2006	18	217 RLARGSPPSLASSSASQL 234	1785.01	-0.23	99.9%	83.9%
36 of 71	2/27/2006	18	224 PSLASSSASQLSAPSLKA 241	1701.91	0.13	99.6%	88.2%
37 of 71	2/27/2006	17	231 ASQLSAPSLKATCTTHH 247	1752.98	-0.26	98.8%	79.4%
38 of 71	2/27/2006	18	237 PSLKATCTTHHDSPADL 254	1909.08	-0.78	94.4%	80.7%
39 of 71	2/27/2006	18	244 TTHHDSPADLIEANLLW 261	2048.21	-0.51	99.6%	85.7%
40 of 71	2/27/2006	15	251 DADLIEANLLWRQEM 265	1817.07	-0.33	83.1%	88.9%
41 of 71	2/27/2006	18	255 IEANLLWRQEMGGNITRV 272	2100.45	-0.24	96.3%	86.0%
42 of 71	2/27/2006	18	262 RQEMGGNITRVESENKVV 279	2046.31	-0.96	92.8%	81.8%
43 of 71	2/27/2006	16	269 ITRVESENKVVILDSF 284	1849.13	0.22	99.2%	84.4%
44 of 71	2/27/2006	16	274 SENKVVILDSFEPLHA 289	1798.04	0.05	99.9%	84.0%
45 of 71	2/27/2006	18	279 VILDSFEPLHAEGDEREI 296	2069.27	-0.34	92.9%	85.8%
46 of 71	2/27/2006	18	286 PLHAEGDEREISVAAEIL 303	1949.16	-0.1	99.4%	85.1%
47 of 71	2/27/2006	17	293 EREISVAAEILRKS RKF 309	2032.39	-0.59	90.8%	74.8%
48 of 71	2/27/2006	18	299 AA EILRKS RKFPSALPIW 316	2083.53	-0.07	96.8%	78.5%
49 of 71	2/27/2006	16	306 SRKFPSALPIWARPDY 321	1904.22	-0.64	95.0%	80.7%
50 of 71	2/27/2006	16	311 SALPIWARPDYNPPLL 326	1823.14	-0.09	99.7%	88.9%
51 of 71	2/27/2006	15	316 WARP DYNPPLLESWK 330	1872.13	-1.21	97.6%	84.6%
52 of 71	2/27/2006	16	320 DYNPPLLESWKDPDYV 335	1951.14	-1.17	99.3%	89.5%
53 of 71	2/27/2006	16	325 LLESWKDPDYVPPV VH 340	1894.17	-0.32	99.8%	84.7%
54 of 71	2/27/2006	15	330 KDPDYVPPV VHGCPL 344	1635.92	-0.22	99.6%	82.7%
55 of 71	2/27/2006	16	334 YVPPV VHGCPLPPTKA 349	1675.04	0.2	91.5%	83.0%
56 of 71	2/27/2006	18	339 VHGCPLPPTKAPPIPPR 356	1874.3	-0.48	98.4%	80.4%
57 of 71	2/27/2006	18	346 PTKAPPIPPRRKRTVVL 363	2023.52	-0.77	92.7%	74.7%
58 of 71	2/27/2006	16	353 PPPRRKRTVVLTESNV 368	1849.18	-0.94	99.8%	76.4%
59 of 71	2/27/2006	18	358 KRTVVLTESNVSSALAE L 375	1917.21	0.27	83.8%	84.9%
60 of 71	2/27/2006	16	365 ESNVSSALAE LTKTF 380	1667.85	0.11	99.6%	88.0%
61 of 71	2/27/2006	18	370 SALAE LTKTFGSSGSSA 387	1684.83	0.22	99.8%	88.1%
62 of 71	2/27/2006	17	377 TKTFGSSGSSAVDSGTA 393	1559.62	-0.24	99.6%	87.2%
63 of 71	2/27/2006	18	383 SGSSAVDSGTATALPDLA 400	1619.72	0.28	99.1%	87.7%
64 of 71	2/27/2006	17	390 SGTATALPDLASDDGDK 406	1633.7	-0.61	98.1%	87.8%
65 of 71	2/27/2006	18	396 LPDLASDDGDKGSDVESY 413	1882.92	-0.97	95.7%	89.2%
66 of 71	2/27/2006	17	403 DGDKGSDVESYSSMPPL 419	1783.9	-0.97	99.1%	88.7%
67 of 71	2/27/2006	18	409 DVESYSSMPPLEGEGDP 426	1906.02	-1.03	99.5%	89.3%
68 of 71	2/27/2006	18	416 MPPLGEGGDPDLSDGSW 433	1899.04	-1.01	97.6%	89.3%
69 of 71	2/27/2006	18	423 PGDPDLSDGSWSTVSEE A 440	1848.87	-0.92	95.1%	89.0%
70 of 71	2/27/2006	16	430 DGSWSTVSEEASEDVV 445	1696.71	-0.52	100.0%	88.2%
71 of 71	2/27/2006	13	435 TVSEEASEDVVCC 447	1370.48	0.24	91.0%	85.7%

^a% full-length
^bRemainder is salt and water

Table 2 - Amino Acid Analysis

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
1 of 71	Expected		1.00	2.00	1.00		1.00		1.00	2.00					2.00	1.00	3.00		2.00
	Actual		0.99	1.70	0.49 ^b		1.00		0.76	1.69					1.80	0.66	0.00 ^a		1.67
2 of 71	Expected		1.00	3.00	1.00				1.00	2.00	1.00		1.00				3.00	3.00	2.00
	Actual		0.92	2.66	0.46 ^b				0.85	2.15	0.96		1.00				3.23	0.00 ^a	1.70
3 of 71	Expected		1.00	1.00	1.00	1.00				4.00	2.00		1.00	1.00	1.00	3.00	1.00		1.00
	Actual		1.00	0.86	0.48 ^b	0.96				3.64	1.95		0.84	1.00	0.94	2.66	0.00 ^a		1.00
4 of 71	Expected		1.00			1.00	1.00			5.00	2.00		1.00	3.00	1.00	1.00	1.00		1.00
	Actual		1.00			0.95	1.04			4.58	1.81		0.95	3.02	0.96	1.00	0.00 ^a		0.87
5 of 71	Expected		2.00		1.00	1.00	2.00			4.00	1.00		1.00	3.00	1.00			1.00	1.00
	Actual		2.09		0.49 ^b	1.03	2.01			3.66	0.93		1.00	2.80	0.85			1.02	0.94
6 of 71	Expected		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		2.16		0.47 ^b	1.03	2.12			0.96	0.98		0.96	0.83	0.93		0.00 ^a	0.98	2.00
7 of 71	Expected		2.00	1.00	1.00	1.00	4.00		1.00	0.00	1.00	1.00			1.00		1.00	1.00	1.00
	Actual		2.11	0.96	0.44 ^b	1.00	3.92		0.89	0.00	0.95	0.81			0.89		0.00 ^a	1.00	0.83
8 of 71	Expected	1.00	1.00	1.00	2.00	1.00	4.00		1.00		1.00	1.00		1.00		2.00	1.00	1.00	1.00
	Actual	1.00	1.21	1.07	0.90 ^b	1.08	3.96		0.99		0.99	0.97		1.05		1.67	0.00 ^a	0.99	0.91
9 of 71	Expected	2.00			2.00	2.00	3.00	1.00	2.00		1.00	1.00		1.00		2.00			1.00
	Actual	1.82			0.85 ^b	2.00	3.15	0.94	1.85		0.93	0.96		1.06		1.85			0.81
10 of 71	Expected	2.00	1.00	1.00	1.00	1.00	3.00	1.00	2.00		1.00	1.00		1.00	1.00				2.00
	Actual	1.73	1.02	0.97	0.48 ^b	0.96	2.82	0.90	1.32 ^c		0.91	1.00		1.00	0.98				1.33 ^c
11 of 71	Expected		2.00	2.00	1.00		3.00	1.00	1.00		1.00	1.00		1.00	2.00	1.00			2.00
	Actual		2.00	1.83	0.56 ^b		2.91	0.91	0.75 ^c		0.92	1.01		1.05	1.92	0.78			1.22 ^c
12 of 71	Expected		2.00	1.00	1.00		2.00	1.00	1.00			1.00	1.00	1.00	1.00	3.00	1.00		1.00
	Actual		2.03	1.01	0.54 ^b		1.90	1.00	0.61 ^c			0.86	0.90	1.07	1.03	2.69	0.00 ^a		0.66 ^c
13 of 71	Expected	1.00	1.00	2.00	1.00		1.00	1.00	1.00				1.00	1.00	1.00	3.00	1.00	1.00	
	Actual	0.84	1.01	1.69	0.52 ^b		1.00	1.03	0.78				0.92	0.94	0.96	2.46	0.00 ^a	0.98	
14 of 71	Expected	1.00		1.00	1.00		2.00	1.00	1.00				1.00	3.00		5.00	1.00	1.00	
	Actual	1.00		0.96	0.53 ^b		2.08	1.09	0.98				0.97	2.94		4.78	0.00 ^a	1.11	
15 of 71	Expected	2.00		2.00	1.00		1.00		1.00					4.00	1.00	3.00		2.00	
	Actual	1.91		1.85	0.49 ^b		1.11		1.00					3.68	1.07	2.66		1.99	
16 of 71	Expected	2.00	2.00	1.00	1.00		1.00			1.00				4.00	2.00	1.00	1.00	1.00	1.00
	Actual	1.95	1.93	1.00	0.51 ^b		0.97			1.04				3.90	1.96	0.96	0.00 ^a	1.05	0.92
17 of 71	Expected	4.00	2.00	1.00		2.00				1.00				1.00	1.00		1.00	2.00	2.00
	Actual	3.71	1.96	0.93		1.99				1.00				1.14	0.99		0.00 ^a	2.18	1.73
18 of 71	Expected	3.00	2.00			3.00				1.00							1.00	1.00	1.00
	Actual	2.94	1.74			3.00				1.05						0.89	0.00 ^a	0.95	3.71
19 of 71	Expected	2.00	1.00	1.00		3.00	1.00	1.00					1.00			1.00		2.00	4.00
	Actual	2.19	0.73	1.10		2.79	0.85	0.94					1.00			0.74		1.98	3.77
20 of 71	Expected		1.00	3.00		1.00	2.00	1.00				1.00	1.00			4.00		1.00	4.00
	Actual		0.89	3.08		0.90	1.75	0.87				0.95	0.93			3.62		0.88	4.00
21 of 71	Expected			2.00	2.00	1.00	1.00	1.00			1.00	1.00		1.00		3.00		1.00	3.00
	Actual			1.96	0.87 ^b	1.00	1.04	0.90			0.84	0.99		1.10		2.73		0.86	2.68
22 of 71	Expected	1.00		2.00	2.00	2.00					1.00		2.00	3.00		2.00			2.00
	Actual	1.08		2.00	1.01 ^b	2.09					0.88		1.84	2.92		1.89			1.88
23 of 71	Expected	1.00	1.00	1.00	2.00	3.00	1.00						2.00	3.00		1.00			3.00
	Actual	1.08	0.81	0.97	1.06 ^b	3.20	1.06						2.16	3.14		0.93			3.00
24 of 71	Expected	2.00	2.00	1.00		2.00	1.00	1.00		1.00			1.91	2.00		1.00		1.00	2.00
	Actual	1.69	1.72	0.86		1.86	0.99	1.06		0.93			1.91	1.72		1.00		1.00	1.89
25 of 71	Expected	2.00	3.00	1.00	1.00		1.00	1.00		3.00	1.00			2.00				1.00	1.00
	Actual	1.97	2.88	0.92	0.54 ^b		1.12	1.12		2.77	0.92			2.00				1.10	0.91
26 of 71	Expected	2.00	2.00	1.00	1.00	2.00				2.00	1.00		1.00	2.00		1.00		1.00	2.00
	Actual	1.94	1.98	1.00	0.59 ^b	2.10				1.90	0.91		0.98	2.03		0.99		0.96	1.97

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)
27 of 71	Expected		1.00	2.00		3.00	1.00			4.00			1.00	1.00		1.00		1.00	3.00
	Actual		1.01	1.83		2.67	0.83			3.69			0.97	1.01		0.88		1.00	2.68
28 of 71	Expected			1.00		3.00	2.00			3.00			1.00		1.00	1.00		1.00	2.00
	Actual			1.00		2.91	1.72			2.60			0.93		0.97	0.82		0.93	2.00
29 of 71	Expected			2.00	1.00	4.00	2.00			3.00				3.00	1.00			1.00	2.00
	Actual			2.00	0.46 ^b	3.94	1.88			3.04				2.96	0.95			0.94	1.99
30 of 71	Expected			1.00	1.00	3.00				3.00		1.00		3.00	2.00	2.00			2.00
	Actual			1.07	0.54 ^b	2.80				2.89		0.98		3.00	1.96	1.79			1.84
31 of 71	Expected			2.00		1.00		1.00	1.00	2.00		1.00		2.00	2.00	3.00			2.00
	Actual			2.00		1.00		0.82	0.91	1.91		0.93		2.16	2.02	2.65			1.73
32 of 71	Expected	2.00	1.00	1.00		1.00		1.00	1.00	2.00	1.00	1.00		1.00	2.00	4.00			
	Actual	1.82	0.98	1.05		1.00		0.75	0.89	2.19	0.93	1.00		0.94	1.90	3.71			
33 of 71	Expected	3.00	3.00			1.00		1.00	1.00	1.00	1.00			1.00	1.00	2.00			
	Actual	2.77	2.77			1.06		0.82	0.96	1.05	1.00			1.04	0.87	1.87			
34 of 71	Expected	4.00	3.00			1.00	1.00			2.00	1.00			2.00	2.00	2.00			
	Actual	3.63	2.80			1.06	1.07			1.88	0.95			2.00	1.97	1.90			
35 of 71	Expected	3.00	2.00			1.00	1.00			3.00				2.00	6.00				
	Actual	3.00	1.94			1.04	1.06			2.85				1.91	5.73				
36 of 71	Expected	4.00				1.00				3.00	1.00			2.00	7.00				
	Actual	3.60				0.96				2.66	1.04			2.00	6.74				
37 of 71	Expected	3.00			1.00	1.00		2.00		2.00	1.00			1.00	3.00	3.00			
	Actual	2.80			0.54 ^b	1.05		1.91		1.86	1.00			1.06	2.84	2.57			
38 of 71	Expected	2.00		3.00	1.00			2.00		2.00	1.00			2.00	2.00	3.00			
	Actual	2.06		3.00	0.49 ^b			1.67		1.87	1.00			1.98	1.93	2.56			
39 of 71	Expected	2.00		4.00	0.00	1.00		2.00	1.00	3.00				1.00	1.00	2.00	1.00		
	Actual	2.08		3.66	0.00	0.81		1.86	1.00	2.81				1.09	0.93	1.69	0.00 ^a		
40 of 71	Expected	2.00	1.00	3.00		3.00				1.00	3.00		1.00					1.00	
	Actual	2.06	1.06	3.00		3.13				0.87	3.08		0.78					0.00 ^a	
41 of 71	Expected	1.00	2.00	2.00		3.00	2.00			2.00	2.00		1.00			1.00	1.00		1.00
	Actual	1.04	2.29	1.95		2.60	2.00			1.55	1.75		1.08			0.81	0.00 ^a		0.93
42 of 71	Expected		2.00	2.00		4.00	2.00			1.00		1.00			1.00	1.00			3.00
	Actual		1.83	1.87		3.61	2.00			1.01		0.98	1.00		1.01	0.72			1.65 ^c
43 of 71	Expected		1.00	2.00		2.00				2.00	1.00	1.00		1.00		2.00	1.00		3.00
	Actual		0.92	2.00		1.66				1.48 ^c	0.77	1.08		1.10		2.09	0.82		1.76 ^c
44 of 71	Expected	1.00		2.00		2.00		1.00	1.00	2.00	1.00		1.00	1.00	2.00				2.00
	Actual	1.17		2.00		1.97		1.04	0.82 ^c	2.04	0.95		0.99	0.97	2.04				1.35 ^c
45 of 71	Expected	1.00	1.00	2.00		4.00	1.00	1.00	2.00	2.00				1.00	1.00	1.00			1.00
	Actual	0.99	1.03	1.79		3.60	1.00	1.03	0.98 ^c	1.62				0.93	1.06	1.03			0.65 ^c
46 of 71	Expected	3.00	1.00	1.00		4.00	1.00	1.00	2.00	2.00				1.00	1.00				1.00
	Actual	2.62	1.04	1.06		3.67	1.07	0.92	1.71	1.65				1.10	0.80				1.00
47 of 71	Expected	2.00	3.00			3.00				2.00	1.00	2.00		1.00		2.00			1.00
	Actual	2.12	3.21			3.18				1.95	0.77	1.78		0.89		2.00			0.83
48 of 71	Expected	3.00	2.00			1.00				2.00	2.00	2.00		1.00	2.00	2.00		1.00	
	Actual	2.78	2.18			1.12				1.72	1.81	1.66		0.97	2.15	2.00		0.00 ^a	
49 of 71	Expected	2.00	2.00	1.00						1.00	1.00	1.00		1.00	3.00	2.00		1.00	1.00
	Actual	2.00	2.15	1.07						0.85	1.08	0.93		0.90	2.83	1.98		0.00 ^a	1.01
50 of 71	Expected	2.00	1.00	2.00						1.00	3.00				4.00	1.00		1.00	1.00
	Actual	1.88	1.07	1.99						0.75	2.71				3.65	1.00		0.00 ^a	0.96
51 of 71	Expected	1.00	1.00	2.00		1.00					2.00	1.00			3.00	1.00		2.00	1.00
	Actual	1.00	1.06	1.89		1.08					1.86	0.93			3.00	0.99		0.00 ^a	0.99
52 of 71	Expected			4.00		1.00					2.00	1.00			3.00	1.00		1.00	2.00
	Actual			3.64		0.97					2.00	1.07			2.93	1.06		0.00 ^a	1.86
53 of 71	Expected			2.00		1.00		1.00			3.00	1.00			3.00	1.00		1.00	1.00
	Actual			1.81		0.99		0.86			2.65	1.09			2.70	0.96		0.00 ^a	1.64 ^c

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)
54 of 71	Expected			2.00	1.00		1.00	1.00		1.00	1.00			4.00				1.00	3.00
	Actual			1.87	0.53 ^b		1.00	0.94		1.00	0.95			3.94				0.95	1.50 ^c
55 of 71	Expected	1.00			1.00		1.00	1.00		1.00	1.00			5.00		1.00		1.00	3.00
	Actual	0.98			0.49 ^b		1.02	0.79		1.00	0.87			4.80		0.82		1.08	1.64 ^c
56 of 71	Expected	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00			8.00		1.00			1.00
	Actual	0.95	1.12		0.45 ^b		1.00	0.91	0.99	1.05	0.81			7.49		1.06			0.83
57 of 71	Expected	1.00	3.00						1.00	1.00	2.00			6.00		2.00			2.00
	Actual	1.05	3.00						1.06	1.05	1.97			5.52		1.82			1.17 ^c
58 of 71	Expected		3.00	1.00		1.00				1.00	1.00			3.00	1.00	2.00			3.00
	Actual		2.67	0.93		1.00				1.00	0.88			3.01	1.01	1.89			2.21 ^b
59 of 71	Expected	2.00	1.00	1.00		2.00				3.00	1.00				3.00	2.00			3.00
	Actual	2.18	0.97	1.00		2.10				2.78	0.95				2.89	1.53			1.92 ^b
60 of 71	Expected	3.00		1.00		2.00				2.00	1.00		1.00		3.00	2.00			1.00
	Actual	3.00		0.00		2.00				2.05	1.03		1.17		2.83	1.92			0.91
61 of 71	Expected	4.00				1.00	2.00			2.00	1.00		1.00		5.00	2.00			
	Actual	3.85				0.99	2.10			1.88	0.94		1.00		4.56	1.84			
62 of 71	Expected	2.00		1.00			3.00				1.00		1.00		5.00	3.00			1.00
	Actual	1.77		1.01			2.97				1.04		1.00		4.51	2.66			1.04
63 of 71	Expected	4.00		2.00			2.00			2.00				1.00	4.00	2.00			1.00
	Actual	3.54		1.87			2.23			2.00				1.17	3.60	1.86			1.04
64 of 71	Expected	3.00		4.00			2.00			2.00	1.00			1.00	2.00	2.00			
	Actual	2.94		3.92			1.95			2.00	1.13			1.12	2.07	1.93			
65 of 71	Expected	1.00		5.00		1.00	2.00			2.00	1.00			1.00	3.00				1.00
	Actual	1.09		4.64		1.04	2.25			2.00	1.12			1.09	3.04				1.04
66 of 71	Expected			3.00		1.00	2.00			1.00	1.00	1.00		2.00	4.00				1.00
	Actual			2.83		0.92	2.20			1.14	0.95	1.04		2.00	3.80				1.04
67 of 71	Expected			2.00		3.00	2.00			1.00		1.00		4.00	3.00				1.00
	Actual			1.86		2.76	2.32			1.16		1.00		3.66	2.89				1.07
68 of 71	Expected			3.00		2.00	3.00			2.00		1.00		4.00	2.00			1.00	
	Actual			2.80		2.16	3.01			2.00		0.75		3.64	2.11			0.00 ^a	
69 of 71	Expected	1.00		3.00		2.00	2.00			1.00				2.00	4.00	1.00	1.00		1.00
	Actual	1.06		2.84		1.84	1.84			1.00				2.11	3.61	0.84	0.00 ^a		0.75
70 of 71	Expected	1.00		2.00		3.00	1.00								4.00	1.00	1.00		3.00
	Actual	1.11		2.00		2.90	1.21								3.79	0.87	0.00 ^a		1.62 ^c
71 of 71	Expected	1.00		1.00	2.00	3.00									2.00	1.00			3.00
	Actual	1.00		1.01	1.13 ^b	2.87									1.95	0.86			1.70 ^c

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

Date: 11 OCT 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication

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