

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 or 12 amino acid overlaps.

Lot: T5254-1 to T5254-71

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	4/14/2011	16	1 SGSWLRDVMWDWICTVL 16	1936.24	0.38	99.1%	89.1%
2 of 71	4/14/2011	18	6 RDVWDWICTVLTDFKTWL 23	2297.68	0.12	92.9%	86.0%
3 of 71	4/14/2011	18	13 CTVLTDFKTWLQSKLLPR 30	2149.6	0	95.2%	82.5%
4 of 71	4/14/2011	18	20 KTWLQSKLLPRLPGVPFL 37	2093.61	0.14	94.4%	82.0%
5 of 71	4/14/2011	18	27 LLPRLPGVPFLSCQRGYK 44	2044.51	0.03	93.8%	81.8%
6 of 71	4/14/2011	15	34 VPFLSCQRGYKGVWR 48	1796.14	-0.29	94.6%	79.5%
7 of 71	4/14/2011	16	38 SCQRGYKGVWRGDGIM 53	1813.11	-0.71	93.6%	79.9%
8 of 71	4/14/2011	19	43 YKGVWRGDGIMQTTCPGCA 61	2043.39	-0.25	91.5%	84.7%
9 of 71	4/14/2011	18	51 GIMQTTCPGCAQIAGHVK 68	1815.18	0.3	88.1%	84.1%
10 of 71	4/14/2011	18	58 PCGAQIAGHVKNGSMRIV 75	1838.2	0.18	90.3%	80.2%
11 of 71	4/14/2011	18	65 GHVKNGSMRIVGPRTCSN 82	1913.23	-0.61	86.0%	78.1%
12 of 71	4/14/2011	17	72 MRIVGPRTCSNTWHGTF 88	1963.29	-0.35	94.9%	81.2%
13 of 71	4/14/2011	16	78 RTCSNTWHGTFPINAY 93	1868.08	-0.64	97.4%	84.7%
14 of 71	4/14/2011	18	83 TWHGTFPINAYTTGPCTP 100	1964.2	-0.36	98.2%	89.6%
15 of 71	4/14/2011	17	90 INAYTTGPCTPSPAPNY 106	1766.96	-0.51	95.0%	87.6%
16 of 71	4/14/2011	18	96 GPCTPSPAPNYSRALWRV 113	1972.27	-0.54	99.1%	85.2%
17 of 71	4/14/2011	17	103 APNYSRALWRVAAEEYV 119	1995.24	-0.35	100.0%	85.4%
18 of 71	4/14/2011	16	109 ALWRVAAEEYVEVTRV 124	1891.17	0.22	88.9%	84.7%
19 of 71	4/14/2011	17	114 AAEYVEVTRVGDGFHYV 130	1984.17	-0.13	98.9%	85.1%
20 of 71	4/14/2011	19	120 EVTRVGDGFHYVTGMTDNDV 138	2141.36	-0.27	99.0%	86.0%
21 of 71	4/14/2011	17	128 HYVTGMTDNDVKCPCQV 144	1896.21	-0.21	91.2%	84.5%
22 of 71	4/14/2011	17	134 TTDNVKPCQVPAPEFF 150	1896.19	-0.19	99.5%	89.3%
23 of 71	4/14/2011	18	140 CPCQVPAPEFFTEVDGVR 157	1994.29	0.03	94.2%	88.5%
24 of 71	4/14/2011	18	147 PEFFTEVDGVRHLRYAPA 164	2104.37	-0.38	94.4%	82.2%
25 of 71	4/14/2011	17	154 DGVRLHRYAPACKPLLR 170	1965.37	-0.43	98.4%	75.1%
26 of 71	4/14/2011	18	160 RYAPACKPLLRDVTQV 177	2106.49	-0.21	97.7%	82.2%

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Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
27 of 71	4/14/2011	18	167 PLLREDVTFQVGLNQYLV 184	2104.45	0.26	90.1%	90.0%
28 of 71	4/14/2011	15	174 TFQVGLNQYLVGSQL 188	1666.91	0.33	97.6%	88.0%
29 of 71	4/14/2011	19	178 GLNQYLVGSQLPCEPEPDV 196	2058.31	-0.34	96.0%	90.1%
30 of 71	4/14/2011	18	186 SQLPCEPEPDVTVLTSML 203	1959.28	0.13	91.2%	89.5%
31 of 71	4/14/2011	17	193 EPDVTVLTSMLTDPHSI 209	1855.11	0.11	92.2%	89.1%
32 of 71	4/14/2011	18	199 LTSMLTDPHSITAETAKR 216	1972.26	-0.39	92.6%	82.1%
33 of 71	4/14/2011	15	206 PSHITAETAKRRLAR 220	1706.98	-0.95	94.9%	71.5%
34 of 71	4/14/2011	18	210 TAETAKRRLARGSPPSLA 227	1882.17	-0.71	95.4%	76.7%
35 of 71	4/14/2011	18	217 RLARGSPPSLASSASQL 234	1785.01	-0.23	84.3%	83.9%
36 of 71	4/14/2011	18	224 PSLASSASQLSAPSLKA 241	1701.91	0.13	87.2%	87.4%
37 of 71	4/14/2011	17	231 ASQLSAPSLKATCTTHH 247	1752.98	-0.26	80.8%	79.4%
38 of 71	4/14/2011	18	237 PSLKATCTTHHDSPDADL 254	1909.08	-0.78	87.9%	81.7%
39 of 71	4/14/2011	18	244 TTHHDSPDADLIEANLLW 261	2048.21	-0.51	89.3%	85.7%
40 of 71	4/14/2011	15	251 DADLIEANLLWRQEM 265	1817.07	-0.33	96.7%	87.9%
41 of 71	4/14/2011	18	255 IEANLLWRQEMGGNITRV 272	2100.45	-0.24	80.5%	86.0%
42 of 71	4/14/2011	18	262 RQEMGGNITRVESENKVV 279	2046.31	-0.96	97.2%	82.0%
43 of 71	4/14/2011	16	269 ITRVESENKVVILDSF 284	1849.13	0.22	94.1%	84.4%
44 of 71	4/14/2011	16	274 SENKVVILDSFEPLHA 289	1798.04	0.05	96.8%	84.5%
45 of 71	4/14/2011	18	279 VILDSFEPLHAEGDEREI 296	2069.27	-0.34	99.2%	85.8%
46 of 71	4/14/2011	18	286 PLHAEGDEREISVAAEIL 303	1949.16	-0.1	96.9%	84.9%
47 of 71	4/14/2011	17	293 EREISVAAEILRKSRLF 309	2032.39	-0.59	90.8%	74.9%
48 of 71	4/14/2011	18	299 AAELRKSRLFPSALPIW 316	2083.53	-0.07	99.1%	78.7%
49 of 71	4/14/2011	16	306 SRKFPSALPIWARPDY 321	1904.22	-0.64	99.0%	80.6%
50 of 71	4/14/2011	16	311 SALPIWARPDYNPPLL 326	1823.14	-0.09	98.7%	88.9%
51 of 71	4/14/2011	15	316 WARPDYNPPLLESWK 330	1872.13	-1.21	99.1%	84.7%
52 of 71	4/14/2011	16	320 DYNPPLLESWKDPDYV 335	1951.14	-1.17	96.8%	88.5%
53 of 71	4/14/2011	16	325 LLESWKDPDYVPPVVH 340	1894.17	-0.32	91.4%	84.7%
54 of 71	4/14/2011	15	330 KDPDYVPPVVHGCP 344	1635.92	-0.22	98.3%	82.5%
55 of 71	4/14/2011	16	334 YVPPVVHGCPPTKA 349	1675.04	0.2	91.4%	83.0%
56 of 71	4/14/2011	18	339 VHGCPPTKAPPIPPPR 356	1874.3	-0.48	97.4%	80.6%
57 of 71	4/14/2011	18	346 PTKAPPIPPRRKRTVVL 363	2023.52	-0.77	89.8%	74.5%
58 of 71	4/14/2011	16	353 PPPRRKRTVVLTESNV 368	1849.18	-0.94	100.0%	76.6%
59 of 71	4/14/2011	18	358 KRTVVLTESNVSSALAE 375	1917.21	0.27	83.8%	84.9%
60 of 71	4/14/2011	16	365 ESNVSSALAEATKTF 380	1667.85	0.11	100.0%	87.7%
61 of 71	4/14/2011	18	370 SALAEATKTFGSSGSSA 387	1684.83	0.22	95.1%	88.1%
62 of 71	4/14/2011	17	377 TKTFGSSGSSAVDSGTA 393	1559.62	-0.24	85.8%	87.1%
63 of 71	4/14/2011	18	383 SGSSAVDSGTATAPDLA 400	1619.72	0.28	90.3%	87.7%
64 of 71	4/14/2011	17	390 GTATAPDLASDDGDK 406	1633.7	-0.61	89.0%	87.8%
65 of 71	4/14/2011	18	396 LPDLASDDGDKGSDVESY 413	1882.92	-0.97	87.2%	89.1%
66 of 71	4/14/2011	17	403 DGDKGSDVESYSSMPPL 419	1783.9	-0.97	97.4%	88.7%
67 of 71	4/14/2011	18	409 DVESYSSMPPLEGEPGDP 426	1906.02	-1.03	97.0%	89.0%
68 of 71	4/14/2011	18	416 MPPLEGEPPDLSGDSW 433	1899.04	-1.01	97.7%	89.3%
69 of 71	4/14/2011	18	423 PGDPDLSGDSWSTVSEEA 440	1848.87	-0.92	92.1%	89.5%
70 of 71	4/14/2011	16	430 DGSWSTVSEEASEDDVV 445	1696.71	-0.52	87.4%	88.4%
71 of 71	4/14/2011	13	435 TVSEEASEDDVVCC 447	1370.48	0.24	88.5%	85.5%

^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		1.00	1.88	0.55 ^b		1.00		0.88	1.90					1.77	0.79	0.00 ^a		1.90
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		1.00	2.88	0.55 ^b				0.80	1.98	1.00		1.00			2.80	0.00 ^a		1.80
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		0.98	1.00	0.44 ^b	1.10				3.77	1.95		0.80	1.10	0.70	2.70	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	1.10			5.00	1.90		1.00	3.00	0.80	1.00	0.00 ^a		0.90
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		2.00		0.40 ^b	1.00	2.10			3.78	0.95		1.00	2.90	0.70			1.10	0.95
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		2.00		0.36 ^b	1.10	2.10			0.95	1.00		1.00	0.89	0.88		0.00 ^a	0.90	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		1.98	1.00	0.49 ^b	1.00	4.05		0.90	0.00	0.95	0.80			0.80		0.00 ^a	1.00	0.90
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	1.10	1.05	0.80 ^b	1.00	3.90		1.00		1.00	0.90		1.00		1.80	0.00 ^a	1.00	0.90
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	2.00			0.80 ^b	1.95	3.10	0.90	2.00		0.95	0.95		1.05		1.90			0.80
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	1.85	1.01	1.05	0.39 ^b	0.95	2.95	1.05	1.41 ^c		0.95	1.00		1.00	0.75				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	2.00	0.50 ^b		3.05	0.90	0.65 ^c		0.92	1.00		1.00	1.86	0.75			1.31 ^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		2.00	1.01	0.63 ^b		1.90	1.00	0.51 ^c			0.85	0.90	1.05	1.05	2.70	0.00 ^a		0.54 ^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	0.85	1.00	1.75	0.44 ^b		1.00	1.00	0.75				0.95	0.94	1.00	2.55	0.00 ^a	1.06	
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	0.95		1.00	0.55 ^b		2.10	1.10	0.95				0.95	3.00		4.75	0.00 ^a	1.10	
15 of 71	Expected	2.00		2.00	1.00		1.00		1.00					4.00	1.00	3.00		2.00	
	Actual	1.95		1.80	0.55 ^b		1.00		0.95					3.80	0.86	2.79		2.03	
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	1.95	1.00	0.50 ^b		0.95			1.00				4.00	1.83	0.96	0.00 ^a	1.00	0.95
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	3.88	1.95	0.95		1.95				0.88				1.10	0.79		0.00 ^a	2.10	1.75
18 of 71	Expected	3.00	2.00			3.00				1.00						1.00	1.00	1.00	4.00
	Actual	3.00	1.75			2.95				1.03						0.90	0.00 ^a	0.95	3.75
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	2.00	0.75	1.10		2.89	1.00	1.00					1.00			0.75		2.05	3.85
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		0.90	3.10		0.90	1.95	0.88				1.00	0.93			3.76		0.98	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			2.00	0.80 ^b	0.93	1.05	0.90			0.84	1.00		1.00		2.88		0.89	2.88
22 of 71	Expected	1.00		2.00	2.00	2.00					1.00		2.00	3.00		2.00			2.00
	Actual	0.94		2.00	1.15 ^b	2.00					0.88		1.89	2.95		1.78			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	1.00	0.85	0.95	.95 ^b	3.00	1.04						2.10	3.05		0.78			2.96

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)
24 of 71	Expected	2.00	2.00	1.00		2.00	1.00	1.00		1.00			2.00	2.00		1.00		1.00	2.00
	Actual	2.00	2.00	0.88		1.85	0.99	1.05		0.95			1.95	1.75		1.00		1.00	1.90
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	1.95	2.88	0.95	0.50 ^b		1.10	1.05		3.00	0.95			2.05				1.10	0.95
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	1.95	1.98	1.00	0.55 ^b	2.00				1.90	0.99		0.95	2.10		1.00		0.96	1.88
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	1.85		2.67	0.85			3.75			0.95	1.01		0.90		1.00	2.70
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		3.00	1.83			2.70			0.88		0.95	0.82		0.95	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	0.45 ^b	3.95	1.88			3.00				3.05	0.95			0.94	2.00
30 of 71	Expected			1.00	1.00	3.00				3.00		1.00		3.00	2.00	2.00			2.00
	Actual			1.05	0.48 ^b	2.80				3.00		0.87		3.05	1.77	1.79			1.85
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		0.85	0.95	1.95		0.88		2.10	1.87	2.65			1.75
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	1.95	1.05	0.95		1.00		1.17	1.05	2.10	0.93	0.75		1.00	1.90	3.70			
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	2.80			1.05		0.85	0.95	1.05	1.00			1.01	0.79	1.85			
34 of 71	Expected	4.00	3.00			1.00	1.00				2.00	1.00		2.00	2.00	2.00			
	Actual	3.88	2.80			1.03	1.00			1.88	0.95			2.00	1.90	1.90			
35 of 71	Expected	3.00	2.00			1.00	1.00			3.00				2.00	6.00				
	Actual	3.00	1.95			1.05	1.05			2.90				1.95	5.75				
36 of 71	Expected	4.00				1.00				3.00	1.00			2.00	7.00				
	Actual	3.88				0.95				3.01	1.05			2.05	6.78				
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			0.59 ^b	1.00		1.95		1.85	1.00			1.05	2.95	2.76			
38 of 71	Expected	2.00		3.00	1.00			2.00		2.00	1.00			2.00	2.00	3.00			
	Actual	2.05		3.00	0.49 ^b			1.75		1.85	1.00			2.00	1.93	2.66			
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	2.06		3.75	0.00	0.85		1.88	1.00	2.85				1.05	0.95	1.75	0.00 ^a		
40 of 71	Expected	2.00	1.00	3.00		3.00			1.00	3.00		1.00						1.00	
	Actual	2.05	1.05	3.00		3.10			0.85	3.10		0.75						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	1.05	2.10	1.99		2.80	2.00		1.67	1.75		1.05				0.85	0.00 ^a		0.95
42 of 71	Expected		2.00	2.00		4.00	2.00		1.00		1.00	1.00			1.00	1.00			3.00
	Actual		1.89	1.88		3.65	2.00		1.01		1.00	0.78			1.00	0.75			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		0.90	2.00		1.78			1.55 ^c	0.75	1.05		1.10		2.10	0.80			1.75 ^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	1.10		1.97		1.95		1.05	0.55 ^c	2.05	0.95		0.99	0.95	2.04				1.45 ^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	1.00	1.05	1.88		3.65	1.00	1.05	0.98 ^c	1.75			0.95	1.00	1.00				0.54 ^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	2.73	1.00	1.05		3.69	1.05	0.95	1.75	1.85				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	2.10	3.10			3.10			1.95	0.75	1.85		0.90		2.00				0.85
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	2.89	2.10			1.05			2.00	1.89	1.77		0.95	2.00	2.00		0.00 ^a		

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 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	2.00	1.05					0.85	1.05	0.95		0.90	2.88	1.78		0.00 ^a	1.00	
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	1.00	1.99					0.80	2.79				3.85	1.00		0.00 ^a	1.05	
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	1.00	2.05		1.00				1.90	0.95			3.00	1.00		0.00 ^a	1.00	
52 of 71	Expected			4.00		1.00				2.00	1.00			3.00	1.00		1.00	2.00	1.00
	Actual			3.77		1.00				2.00	1.05			3.05	0.85		0.00 ^a	1.95	1.00
53 of 71	Expected			2.00		1.00		1.00		3.00	1.00			3.00	1.00		1.00	1.00	3.00
	Actual			1.89		0.99		1.09		3.06	1.05			2.80	0.65		0.00 ^a	1.00	1.44 ^c
54 of 71	Expected			2.00	1.00		1.00	1.00		1.00	1.00			4.00				1.00	3.00
	Actual			1.90	0.50 ^b		1.00	0.95		1.00	0.95			3.95				1.00	1.43 ^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	1.00			0.56 ^b		1.05	0.80		1.00	0.87			4.80		0.82		1.08	1.67 ^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	0.98	1.10		0.40 ^b		1.00	0.95	0.95	1.00	0.90			7.77		1.00			0.85
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						1.08	1.05	1.95			5.55		1.85			1.05 ^c
58 of 71	Expected		3.00	1.00		1.00				1.00	1.00			3.00	1.00	2.00			3.00
	Actual		2.78	0.95		1.00				1.00	0.88			3.00	1.05	2.00			2.32 ^b
59 of 71	Expected	2.00	1.00	1.00		2.00				3.00	1.00				3.00	2.00			3.00
	Actual	2.00	0.95	1.00		2.05				3.00	1.00				2.76	1.76			2.22 ^b
60 of 71	Expected	3.00		1.00		2.00				2.00	1.00		1.00		3.00	2.00			1.00
	Actual	2.97		0.00		2.00				2.05	1.00		1.10		2.65	1.70			0.95
61 of 71	Expected	4.00				1.00	2.00			2.00	1.00		1.00		5.00	2.00			
	Actual	3.90				1.05	2.00			2.00	0.95		1.00		4.50	1.76			
62 of 71	Expected	2.00		1.00			3.00						1.00		5.00	3.00			1.00
	Actual	1.80		1.05			3.01						1.05		4.50	2.70			1.00
63 of 71	Expected	4.00		2.00			2.00			2.00				1.00	4.00	2.00			1.00
	Actual	4.00		1.85			2.05			2.00				1.05	37.00	1.85			0.95
64 of 71	Expected	3.00		4.00			2.00			2.00	1.00			1.00	2.00	2.00			
	Actual	2.95		3.95			1.95			2.00	1.10			1.10	2.00	1.80			
65 of 71	Expected	1.00		5.00		1.00	2.00			2.00	1.00			1.00	3.00			1.00	1.00
	Actual	1.05		4.77		1.05	2.00			2.00	1.10			1.05	3.00			1.05	0.99
66 of 71	Expected			3.00		1.00	2.00			1.00	1.00	1.00		2.00	4.00			1.00	1.00
	Actual			2.85		0.95	2.10			1.10	0.95	1.05		2.00	3.85			1.10	0.95
67 of 71	Expected			2.00		3.00	2.00			1.00		1.00		4.00	3.00			1.00	1.00
	Actual			1.95		3.00	2.10			1.10		1.00		3.60	2.69			1.05	0.85
68 of 71	Expected			3.00		2.00	3.00			2.00		1.00		4.00	2.00		1.00		
	Actual			2.80		2.10	3.00			2.00		0.75		3.80	2.10		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	1.05		3.00		1.95	1.85			1.00				2.05	3.77	0.85	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	1.00		2.00		2.88	1.10								3.80	0.95	0.00 ^a		1.55 ^c
71 of 71	Expected	1.00		1.00	2.00	3.00									2.00	1.00			3.00
	Actual	0.95		1.05	1.10 ^b	2.85									1.85	0.70			1.85 ^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 or designee

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