

Peptide Array, Hepatitis C Virus, H77, NS5A Protein

Catalog No. NR-3755

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

Product Description: The 71-peptide array spans the NS5A protein of hepatitis C virus, H77 (genotype 1a; GenPept: AAB67036). Peptides are 13- to 19-mers, with 11 amino acid overlaps.

Lot: T4945-1 to T4945-71

The following information applies to all peptides:

- Appearance
- Mass spectral analysis
- Counter Ion

White lyophilized powder
Correct MW by MALDI-TOF
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	1/20/2011	16	1 SGSWLRDIWDWICEVL 16	1978.27	0.22	99.2%	89.7%
2 of 71	1/20/2011	18	6 RDIWDWICEVLSDFKTWL 23	2325.69	-0.03	93.5%	87.2%
3 of 71	1/20/2011	16	13 CEVLSDFKTWLKAKLM 28	1912.36	0.22	91.8%	82.6%
4 of 71	1/20/2011	17	18 DFKTWLKAKLMPQLPGI 34	1986.47	-0.09	92.4%	83.3%
5 of 71	1/20/2011	18	24 KAKLMPQLPGIPFVSCQR 41	2013.52	0	90.9%	84.5%
6 of 71	1/20/2011	18	31 LPGIPFVSCQRGYRGVWR 48	2091.49	-0.13	96.3%	83.0%
7 of 71	1/20/2011	17	38 SCQRGYRGVWRGDGIMH 54	1978.26	-0.89	92.5%	79.5%
8 of 71	1/20/2011	18	44 RGVWRGDGIMHTRCHCGA 61	2012.34	-0.51	88.8%	76.6%
9 of 71	1/20/2011	18	51 GIMHTRCHCGAEITGHVK 68	1950.31	-0.12	84.7%	75.1%
10 of 71	1/20/2011	18	58 HCGAEITGHVKNGTMRIV 75	1923.26	-0.04	90.2%	79.1%
11 of 71	1/20/2011	17	65 GHVKNGTMRIVGPRTCR 81	1882.26	-0.65	93.5%	76.3%
12 of 71	1/20/2011	18	71 TMRIVGPRTCRNMWSGTF 88	2113.53	-0.3	82.6%	82.3%
13 of 71	1/20/2011	16	78 RTCRNMWSGTFPINAY 93	1917.21	-0.56	94.7%	84.9%
14 of 71	1/20/2011	19	83 MWSGTFPINAYTTGPCTPL 101	2057.39	0.13	94.3%	91.0%
15 of 71	1/20/2011	18	91 NAYTTGPCTPLPAPNYKF 108	1955.24	-0.54	94.8%	90.1%
16 of 71	1/20/2011	18	98 CTPLPAPNYKFALWRVSA 115	2034.43	0.12	92.8%	85.6%
17 of 71	1/20/2011	18	105 NYKFALWRVSAEEYVEIR 122	2273.6	-0.45	94.0%	83.3%
18 of 71	1/20/2011	18	112 RVSAEEYVEIRRVGDFHY 129	2225.47	-0.71	83.3%	80.6%
19 of 71	1/20/2011	15	119 VEIRRVGDFHYVSGM 133	1765.04	-0.02	80.2%	79.5%
20 of 71	1/20/2011	17	123 RVGDFHYVSGMTTDNLK 139	1940.18	-0.56	96.7%	84.0%
21 of 71	1/20/2011	16	129 YVSGMTTDNLKCPQI 144	1773.09	-0.03	81.4%	88.6%
22 of 71	1/20/2011	17	134 TTDNLKCPQIPSEFF 150	1940.24	-0.35	97.5%	89.5%
23 of 71	1/20/2011	18	140 CPCQIPSEFFTELDGVR 157	2038.35	-0.12	98.0%	89.9%
24 of 71	1/20/2011	16	147 PEFFTELDGVRLHRFA 162	1934.2	-0.21	83.5%	80.9%
25 of 71	1/20/2011	18	152 ELDGVRRLHRFAPPCKPLL 169	2061.5	-0.1	100.0%	80.3%
26 of 71	1/20/2011	18	159 HRFAPPCKPLLREEVSFR 176	2182.6	-0.64	80.1%	77.2%

Certificate of Analysis for NR-3755

Table 1

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
27 of 71	1/20/2011	17	166 KPLLREEVSFRVGLHEY 182	2072.41	-0.48	100.0%	79.4%
28 of 71	1/20/2011	17	172 EVSFRVGLHEYVPGSQL 188	1917.17	-0.03	84.2%	84.9%
29 of 71	1/20/2011	19	178 GLHEYVPGSQLPCEPEPDV 196	2066.29	-0.61	80.7%	89.1%
30 of 71	1/20/2011	18	186 SQLPCEPEPDVAVLTSML 203	1929.26	0.27	99.0%	89.4%
31 of 71	1/20/2011	17	193 EPDVAVLTSMLTDP SHI 209	1825.08	0.25	95.0%	88.9%
32 of 71	1/20/2011	18	199 LTSMLTDP SHITAE AAGR 216	1871.12	-0.06	90.0%	84.5%
33 of 71	1/20/2011	15	206 PSHITAE AAGRRLAR 220	1605.83	-0.55	81.5%	75.8%
34 of 71	1/20/2011	18	210 TAE AAGRRLARGSPPSMA 227	1799.06	-0.48	99.4%	80.8%
35 of 71	1/20/2011	18	217 RLARGSPPSMASSSASQL 234	1803.04	-0.33	86.1%	84.1%
36 of 71	1/20/2011	18	224 PSMASSSASQLSAPSLKA 241	1719.95	0.03	100.0%	88.3%
37 of 71	1/20/2011	17	231 ASQLSAPSLKATCTANH 247	1699.92	-0.13	82.4%	83.3%
38 of 71	1/20/2011	18	237 PSLKATCTANH DSDPAEL 254	1870.04	-0.66	82.7%	84.5%
39 of 71	1/20/2011	18	244 TANH DSDPAELIEANLLW 261	2009.18	-0.38	86.9%	89.8%
40 of 71	1/20/2011	15	251 DAELIEANLLWRQEM 265	1831.09	-0.33	82.3%	87.9%
41 of 71	1/20/2011	18	255 IEANLLWRQEMGGNITRV 272	2100.45	-0.24	98.9%	86.0%
42 of 71	1/20/2011	18	262 RQEMGGNITRVESENKVV 279	2046.31	-0.96	99.6%	82.8%
43 of 71	1/20/2011	16	269 ITRVESENKVVILDSF 284	1849.13	0.22	83.9%	84.4%
44 of 71	1/20/2011	16	274 SENKVVILDSFDPLVA 289	1746.01	0.51	81.0%	88.5%
45 of 71	1/20/2011	18	279 VILDSFDPLVAEEDEREV 296	2075.27	-0.12	84.6%	90.1%
46 of 71	1/20/2011	18	286 PLVAEEDEREVSVP AEIL 303	1995.23	-0.07	92.9%	89.7%
47 of 71	1/20/2011	18	293 EREVSVPAEILRKSRRFA 310	2143.5	-0.69	84.2%	76.8%
48 of 71	1/20/2011	18	300 AEILRKSRRFARALPVWA 317	2140.58	-0.13	100.0%	77.3%
49 of 71	1/20/2011	15	307 RRFARALPVWARPDY 321	1874.2	-0.71	91.8%	78.7%
50 of 71	1/20/2011	16	311 RALPVWARPDYNPPLV 326	1864.2	-0.31	94.7%	84.5%
51 of 71	1/20/2011	16	316 WARP DYNPPLVETWKK 331	2000.31	-1.35	86.9%	81.4%
52 of 71	1/20/2011	18	321 YNPPLVETWKKPDY EPPV 338	2172.49	-1.21	81.3%	86.4%
53 of 71	1/20/2011	17	328 TWKKPDY EPPVVHGCPL 344	1966.31	-0.76	100.0%	83.2%
54 of 71	1/20/2011	15	334 YEPPVVHGCPLPPPR 348	1657.97	-0.52	99.0%	82.9%
55 of 71	1/20/2011	15	338 VVHGCPLPPPRSPPV 352	1551.89	0.03	100.0%	81.9%
56 of 71	1/20/2011	18	342 CPLPPPRSPPVPPPRKKR 359	2019.51	-1.44	98.7%	74.7%
57 of 71	1/20/2011	15	349 SPPVPPPRKKRTVVL 363	1671.08	-0.66	99.6%	76.6%
58 of 71	1/20/2011	16	353 PPRKKRTVVLTESTL 368	1822.2	-0.75	99.3%	76.2%
59 of 71	1/20/2011	18	358 KRTVVLTESTLSTALAE L 375	1932.26	0.41	96.2%	85.0%
60 of 71	1/20/2011	16	365 ESTLSTALAE LATS F 380	1668.88	0.26	97.0%	88.0%
61 of 71	1/20/2011	19	370 TALAELATKSFGSSSTSGI 388	1828.02	0.32	99.2%	88.9%
62 of 71	1/20/2011	18	378 KSFGSSSTSGITGDNTTT 395	1747.8	-0.68	99.6%	89.5%
63 of 71	1/20/2011	16	385 TSGITGDNTTTSSEPA 400	1538.55	-0.78	99.3%	87.1%
64 of 71	1/20/2011	18	390 GDNTTTSSEPA PSGCPPD 407	1732.77	-1.19	88.7%	88.4%
65 of 71	1/20/2011	17	397 SEPAPSGCPPDS DVE SY 413	1736.8	-0.99	98.6%	88.4%
66 of 71	1/20/2011	17	403 GCPPDS DVE SYSSMPPL 419	1780.96	-0.55	99.6%	87.7%
67 of 71	1/20/2011	18	409 DVE SYSSMPPLEGEP GDP 426	1906.02	-1.03	99.3%	89.3%
68 of 71	1/20/2011	18	416 MPPLEGEP GDPDLSDGSW 433	1899.04	-1.01	98.6%	89.3%
69 of 71	1/20/2011	18	423 PGDPDLSDGSWSTVSSGA 440	1734.76	-0.59	98.1%	88.4%
70 of 71	1/20/2011	17	430 DGSWSTVSSGADTEDVV 446	1711.73	-0.35	85.9%	86.1%
71 of 71	1/20/2011	13	436 VSSGADTEDVVCC 448	1284.39	0.48	98.8%	85.2%

^a% full-length

^bRemainder is salt and water

Certificate of Analysis for NR-3755

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					2.00		3.00		1.00
	Actual		1.00	1.85	0.33 ^b	1.00	1.10		1.75	1.95					1.88		0.00 ^a		0.86
2 of 71	Expected		1.00	3.00	1.00	1.00			2.00	2.00	1.00		1.00		1.00	1.00	3.00		1.00
	Actual		0.90	2.80	0.50 ^b	1.00			1.75	1.85	0.95		1.05		0.86	0.83	0.00 ^a		0.85
3 of 71	Expected	1.00		1.00	1.00	1.00				3.00	3.00	1.00	1.00		1.00	1.00	1.00		1.00
	Actual	1.00		1.00	0.63 ^b	1.00				2.80	2.80	0.87	1.10		0.76	0.80	0.00 ^a		0.90
4 of 71	Expected	1.00		1.00		1.00	1.00		1.00	3.00	3.00	1.00	1.00	2.00		1.00	1.00		
	Actual	0.99		0.92		0.96	1.11		1.22	2.95	2.75	0.77	1.10	2.00		0.70	0.00 ^a		
5 of 71	Expected	1.00	1.00		1.00	2.00	1.00		1.00	2.00	2.00	1.00	1.00	3.00	1.00				1.00
	Actual	0.90	0.70		0.55 ^b	1.80	1.10		1.00	1.94	1.80	0.95	1.00	3.10	0.70				0.85
6 of 71	Expected		3.00		1.00	1.00	3.00		1.00	1.00			1.00	2.00	1.00		1.00	1.00	2.00
	Actual		3.10		0.49 ^b	0.99	3.15		0.75	0.95			1.00	1.85	0.75		0.00 ^a	1.00	1.80
7 of 71	Expected		3.00	1.00	1.00	1.00	4.00	1.00	1.00			1.00			1.00		1.00	1.00	1.00
	Actual		3.10	1.00	0.61 ^b	0.80	4.00	1.15	0.85			0.75			0.70		0.00 ^a	1.10	0.78
8 of 71	Expected	1.00	3.00	1.00	2.00		4.00	2.00	1.00			1.00				1.00	1.00		1.00
	Actual	0.75	3.00	1.00	0.98 ^b		3.80	2.10	0.85			0.77				0.95	0.00 ^a		0.80
9 of 71	Expected	1.00	1.00		2.00	1.00	3.00	3.00	2.00		1.00	1.00				2.00			1.00
	Actual	1.00	0.90		0.90 ^b	1.00	3.15	3.05	1.80		1.00	0.75				1.70			0.89
10 of 71	Expected	1.00	1.00	1.00	1.00	1.00	3.00	2.00	2.00		1.00	1.00				2.00			2.00
	Actual	1.05	0.95	1.00	0.46 ^b	0.99	3.00	2.10	1.35 ^c		1.00	0.90				1.80			1.50 ^c
11 of 71	Expected		3.00	1.00	1.00		3.00	1.00	1.00		1.00	1.00		1.00		2.00			2.00
	Actual		2.95	1.00	0.50 ^b		3.00	1.00	0.34 ^c		0.95	1.10		1.05		1.70			1.45 ^c
12 of 71	Expected		3.00	1.00	1.00		2.00		1.00			2.00	1.00	1.00	1.00	3.00	1.00		1.00
	Actual		2.90	1.00	0.40 ^b		2.03		0.53 ^c			1.77	0.90	1.10	1.00	2.60	0.00 ^a		0.61 ^c
13 of 71	Expected	1.00	2.00	2.00	1.00		1.00		1.00			1.00	1.00	1.00	1.00	2.00	1.00	1.00	
	Actual	0.98	2.00	1.90	0.55 ^b		1.00		1.00			0.97	0.95	1.05	0.95	1.60	0.00 ^a	1.05	
14 of 71	Expected	1.00		1.00	1.00		2.00		1.00	1.00		1.00	1.00	3.00	1.00	4.00	1.00	1.00	
	Actual	0.95		0.90	0.35 ^b		2.08		0.90	1.00		0.95	1.00	3.05	0.90	3.80	0.00 ^a	1.15	
15 of 71	Expected	2.00		2.00	1.00		1.00			1.00	1.00		1.00	4.00		3.00		2.00	
	Actual	2.00		2.00	0.48 ^b		1.03			1.00	0.90		0.95	4.05		2.70		2.00	
16 of 71	Expected	3.00	1.00	1.00	1.00					2.00	1.00		1.00	3.00	1.00	1.00	1.00	1.00	1.00
	Actual	2.70	0.80	0.95	0.54 ^b					1.90	0.90		1.13	3.20	0.75	1.00	0.00 ^a	1.13	0.80
17 of 71	Expected	2.00	2.00	1.00		3.00			1.00	1.00	1.00		1.00		1.00		1.00	2.00	2.00
	Actual	2.05	1.90	0.95		3.00			0.85	1.00	1.05		1.00		1.00		0.00 ^a	1.75	1.99
18 of 71	Expected	1.00	3.00	1.00		3.00	1.00	1.00	1.00				1.00		1.00			2.00	3.00
	Actual	0.99	2.88	0.95		2.90	1.05	1.15	0.85				1.10		1.00			2.00	2.80
19 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
	Actual		1.90	1.00		0.85	1.95	1.00	0.80			1.00	1.01		0.95			0.95	2.70
20 of 71	Expected		1.00	3.00			2.00	1.00		1.00	1.00	1.00	1.00		1.00	2.00		1.00	2.00
	Actual		0.90	3.00			2.13	1.05		1.00	0.89	0.77	0.95		1.00	1.85		1.10	1.70
21 of 71	Expected			2.00	2.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	2.00		1.00	1.00
	Actual			2.00	1.16 ^b	0.88	0.95		1.00	0.98	1.03	0.90		1.02	0.91	1.80		0.70	0.86
22 of 71	Expected			2.00	2.00	2.00			1.00	1.00	1.00		2.00	3.00	1.00	2.00			
	Actual			2.00	0.90 ^b	2.00			0.95	0.96	1.00		1.85	2.85	0.97	1.87			
23 of 71	Expected		1.00	1.00	2.00	3.00	1.00		1.00	1.00			2.00	3.00	1.00	1.00			1.00
	Actual		1.10	1.00	1.15 ^b	3.00	0.95		0.98	1.00			1.80	2.78	0.90	0.80			1.00
24 of 71	Expected	1.00	2.00	1.00		2.00	1.00	1.00		2.00			3.00	1.00		1.00			1.00
	Actual	0.80	1.76	1.10		2.00	1.15	1.05		1.80			2.85	1.00		0.71			0.90
25 of 71	Expected	1.00	2.00	1.00	1.00	1.00	1.00	1.00		4.00	1.00		1.00	3.00					1.00
	Actual	1.05	1.85	1.00	0.46 ^b	0.95	1.10	1.16		3.70	1.00		0.90	3.07					0.88
26 of 71	Expected	1.00	3.00		1.00	2.00		1.00		2.00	1.00		2.00	3.00	1.00				1.00
	Actual	1.00	2.90		0.48 ^b	1.86		0.95		1.86	0.95		1.03	3.09	0.93				1.00

Certificate of Analysis for NR-3755

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		2.00			3.00	1.00	1.00		3.00	1.00		1.00	1.00	1.00			1.00	2.00
	Actual		2.15			3.00	1.03	1.14		2.70	1.00		0.90	1.10	1.00			1.10	2.00
28 of 71	Expected		1.00			3.00	2.00	1.00		2.00			1.00	1.00	2.00			1.00	3.00
	Actual		0.80			3.00	2.05	1.00		1.90			0.90	1.10	2.00			1.05	2.78
29 of 71	Expected			1.00	1.00	4.00	2.00	1.00		2.00				4.00	1.00			1.00	2.00
	Actual			1.05	0.57 ^b	3.85	2.00	1.05		1.90				3.80	0.77			1.00	1.95
30 of 71	Expected	1.00		1.00	1.00	3.00				3.00		1.00		3.00	2.00	1.00			2.00
	Actual	1.00		1.04	0.50 ^b	2.79				2.75		0.87		3.00	1.80	0.95			1.87
31 of 71	Expected	1.00		2.00		1.00		1.00	1.00	2.00		1.00		2.00	2.00	2.00			2.00
	Actual	0.90		2.10		1.00		1.01	0.80	1.85		1.00		2.05	1.88	1.90			1.79
32 of 71	Expected	3.00	1.00	1.00		1.00	1.00	1.00	1.00	2.00		1.00		1.00	2.00	3.00			
	Actual	2.70	0.95	1.00		0.85	0.80	0.88	0.70	2.00		0.70		1.00	1.84	2.63			
33 of 71	Expected	4.00	3.00			1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00			
	Actual	3.95	3.00			1.00	0.98	0.80	0.88	1.00				1.00	0.90	1.00			
34 of 71	Expected	5.00	3.00			1.00	2.00			1.00		1.00		2.00	2.00	1.00			
	Actual	4.80	3.05			1.00	2.03			1.00		0.80		2.00	1.95	1.00			
35 of 71	Expected	3.00	2.00			1.00	1.00			2.00		1.00		2.00	6.00				
	Actual	2.80	2.10			1.00	1.00			2.00		0.75		1.87	5.65				
36 of 71	Expected	4.00				1.00				2.00	1.00	1.00		2.00	7.00				
	Actual	3.75				0.95				1.88	1.00	0.90		2.02	6.77				
37 of 71	Expected	4.00		1.00	1.00	1.00		1.00		2.00	1.00			1.00	3.00	2.00			
	Actual	3.88		0.88	0.45 ^b	1.05		0.88		1.95	1.00			1.10	2.93	1.70			
38 of 71	Expected	3.00		3.00	1.00	1.00		1.00		2.00	1.00			2.00	2.00	2.00			
	Actual	3.00		3.00	0.46 ^b	0.95		1.10		1.95	1.01			2.00	1.89	1.70			
39 of 71	Expected	3.00		4.00		2.00		1.00	1.00	3.00				1.00	1.00	1.00	1.00		
	Actual	2.85		4.00		1.90		1.01	0.85	2.77				1.05	0.95	0.90	0.00 ^a		
40 of 71	Expected	2.00	1.00	2.00		4.00			1.00	3.00		1.00					1.00		
	Actual	2.00	1.05	2.00		3.80			0.90	2.80		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	1.00	2.10	2.05		2.80	2.00		1.70	1.85		0.72				0.95	0.00 ^a		0.72
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		1.88	2.00		2.80	2.00		1.05		0.95	0.85			1.00	0.90			1.75 ^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		1.05	2.00		2.00			1.11 ^c	0.80	0.95		1.00		1.69	0.70			1.88 ^c
44 of 71	Expected	1.00		3.00		1.00			1.00	2.00	1.00		1.00	1.00	2.00				3.00
	Actual	0.85		2.75		0.99			0.60 ^c	1.70	0.71		1.00	1.00	1.77				1.70 ^c
45 of 71	Expected	1.00	1.00	3.00		4.00			1.00	2.00			1.00	1.00	1.00				3.00
	Actual	1.00	1.05	3.00		3.88			0.60 ^c	1.80			0.88	0.95	0.75				1.77 ^c
46 of 71	Expected	2.00	1.00	1.00		5.00			1.00	2.00				2.00	1.00				3.00
	Actual	2.00	1.09	1.00		4.83			0.88	1.75				2.00	0.76				2.80
47 of 71	Expected	2.00	4.00			3.00			1.00	1.00	1.00		1.00	1.00	2.00				2.00
	Actual	2.04	4.05			3.00			0.80	0.75	0.99		0.89	1.05	1.84				1.90
48 of 71	Expected	4.00	4.00			1.00			1.00	2.00	1.00		1.00	1.00	1.00		1.00		1.00
	Actual	3.70	3.77			1.00			0.78	1.88	1.05		0.99	1.00	1.00		0.00 ^a		0.85
49 of 71	Expected	3.00	4.00	1.00						1.00			1.00	2.00			1.00	1.00	1.00
	Actual	3.00	3.85	1.00						0.96			0.80	2.00			0.00 ^a	1.14	0.88
50 of 71	Expected	2.00	2.00	2.00						2.00				4.00			1.00	1.00	2.00
	Actual	2.00	1.95	2.13						1.75				3.83			0.00 ^a	1.00	1.80
51 of 71	Expected	1.00	1.00	2.00		1.00				1.00	2.00			3.00		1.00	2.00	1.00	1.00
	Actual	0.95	0.90	2.00		0.83				0.95	1.85			2.90		0.71	0.00 ^a	1.11	0.85
52 of 71	Expected			2.00		2.00				1.00	2.00			5.00		1.00	1.00	2.00	2.00
	Actual			2.10		1.97				0.95	2.00			4.80		0.90	0.00 ^a	1.91	1.78

Certificate of Analysis for NR-3755

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)
53 of 71	Expected			1.00	1.00	1.00	1.00	1.00		1.00	2.00			4.00		1.00	1.00	1.00	2.00
	Actual			1.07	0.53 ^b	1.00	1.05	0.78		0.95	2.00			3.81		0.80	0.00 ^a	1.10	0.91 ^c
54 of 71	Expected		1.00		1.00	1.00	1.00	1.00		1.00				6.00				1.00	2.00
	Actual		1.15		0.45 ^b	1.05	1.13	1.05		1.00				5.62				1.10	0.94 ^c
55 of 71	Expected		1.00		1.00		1.00	1.00		1.00				6.00	1.00				3.00
	Actual		1.00		0.51 ^b		0.95	0.80		0.98				5.65	0.83				1.35 ^c
56 of 71	Expected		3.00		1.00					1.00	2.00			9.00	1.00				1.00
	Actual		3.00		0.53 ^b					1.05	1.95			8.66	0.88				0.90
57 of 71	Expected		2.00							1.00	2.00			5.00	1.00	1.00			3.00
	Actual		1.88							0.95	2.10			4.70	1.00	1.05			2.11 ^c
58 of 71	Expected		2.00			1.00				2.00	2.00			3.00	1.00	3.00			2.00
	Actual		1.88			0.95				1.85	2.00			3.00	0.75	2.70			0.88 ^c
59 of 71	Expected	2.00	1.00			2.00				4.00	1.00				2.00	4.00			2.00
	Actual	2.00	0.75			1.86				3.70	0.90				2.10	3.76			0.95 ^c
60 of 71	Expected	3.00				2.00				3.00	1.00		1.00		3.00	3.00			
	Actual	3.00				2.11				2.80	1.00		0.90		2.76	2.76			
61 of 71	Expected	3.00				1.00	2.00		1.00	2.00	1.00		1.00		5.00	3.00			
	Actual	2.88				1.10	1.90		0.99	2.00	0.85		1.05		4.77	2.65			
62 of 71	Expected			2.00			3.00		1.00		1.00		1.00		5.00	5.00			
	Actual			2.05			2.80		0.77		0.83		0.80		4.83	4.54			
63 of 71	Expected	1.00		2.00		1.00	2.00		1.00					1.00	3.00	5.00			
	Actual	0.85		2.00		0.90	1.05		1.00					0.96	3.00	4.44			
64 of 71	Expected	1.00		3.00	1.00	1.00	2.00							4.00	3.00	3.00			
	Actual	1.00		2.85	0.45 ^b	0.95	2.05							3.75	3.00	2.64			
65 of 71	Expected	1.00		2.00	1.00	2.00	1.00							4.00	4.00			1.00	1.00
	Actual	1.00		1.95	1.01 ^b	1.90	1.10							3.80	3.65			1.10	1.00
66 of 71	Expected			2.00	1.00	1.00	1.00			1.00		1.00		4.00	4.00			1.00	1.00
	Actual			1.93	0.60 ^b	0.90	1.00			1.00		0.76		3.95	3.90			1.10	0.83
67 of 71	Expected			2.00		3.00	2.00			1.00		1.00		4.00	3.00			1.00	1.00
	Actual			1.88		2.75	2.05			1.00		0.70		4.10	2.85			0.85	1.00
68 of 71	Expected			3.00		2.00	3.00			2.00		1.00		4.00	2.00		1.00		
	Actual			3.00		1.95	3.10			1.95		0.70		3.80	1.74		0.00 ^a		
69 of 71	Expected	1.00		3.00			3.00			1.00				2.00	5.00	1.00	1.00		1.00
	Actual	1.00		2.95			3.10			0.95				2.00	4.66	0.70	0.00 ^a		0.88
70 of 71	Expected	1.00		3.00		1.00	2.00								4.00	2.00	1.00		3.00
	Actual	1.00		2.80		0.95	2.05								3.75	1.65	0.00 ^a		1.35 ^c
71 of 71	Expected	1.00		2.00	2.00	1.00	1.00								2.00	1.00			3.00
	Actual	1.00		2.00	0.90 ^b	1.00	1.10								1.66	0.95			1.76 ^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: 27 APR 2011

Signature:

Dorothy C. Young

Title:

Technical manager, BEI Authentication or designee

ATCC®, 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®'s knowledge.

ATCC® 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.



BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370

Fax: 703-365-2898