

Peptide Array West Nile Virus Protein E

Catalog No. NR-435

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Product Description: A 67-peptide array spanning the E protein of NY99-flamingo382-99 strain of West Nile Virus. Peptides are 15- to 19-mers, with 10 or 11 amino acid overlaps. Each vial contains 1 mg of lyophilized NR-435.

Lot: 3745090

The following information applies to all 67 peptides:

- Appearance White lyophilized powder
- Mass spectral analysis “Exhibits correct MW”
- Counter Ion Ammonium acetate (Peptides 4, 32, 58)
Trifluoroacetate (all other Peptides)

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

Table 1						
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Purity by HPLC ^a	Peptide Content ^b
1	6/18/04	18	FNCLGMSNRDFLEGVSGA	1917.2	90.0%	78.1%
2	6/23/04	17	RDFLEGVSGATWVDLVL	1877.1	91.1%	79.7%
3	6/17/04	18	SGATWVDLVLEGDSCVTI	1865.1	28.0%	79.4%
4	6/1/04	18	VLEGDSCVTIMSKDKPTI	1936.3	92.2%	81.9%
5	6/1/04	17	TIMSKDKPTIDVKMMNM	1983.5	97.7%	80.8%
6	7/6/04	18	PTIDVKMMNMEAANLAEV	1977.4	90.3%	80.2%
7	6/17/04	17	NMEAANLAEVRSYCYLA	1918.2	39.0%	81.6%
8	6/18/04	18	AEVRSYCYLATVSDLSTK	2006.3	66.1%	81.6%
9	6/16/04	16	LATVSDLSTKAACTM	1608.9	83.6%	79.3%
10	6/15/04	18	LSTKAACTMGEAHNDKR	1930.2	97.7%	80.9%
11	6/23/04	18	TMGEAHNDKRADPAFVCR	2018.3	98.0%	79.2%
12	6/18/04	18	KRADPAFVCRQGVVDRGW	2060.4	99.0%	80.3%
13	6/23/04	17	CRQGVVDRGWNGCGLF	1824.1	90.4%	79.3%
14	6/11/04	15	RGWNGCGLFGKGS	1508.7	93.9%	81.9%
15	6/15/04	17	GCGLFGKGSIDTCAKFA	1675.0	91.8%	81.5%
16	6/16/04	18	GSIDTCAKFACSTKAIGR	1829.1	61.7%	80.1%
17	6/18/04	18	FACSTKAIGRTILKENIK	1993.4	89.2%	80.4%
18	7/1/04	18	GRTILKENIKYEVAIFVH	2130.5	94.9%	80.6%
19	7/6/04	18	IKYEVAIFVHGPTTVESH	2027.3	90.8%	79.4%
20	6/17/04	17	VHGPTTVESHGNYSTQV	1812.9	91.7%	80.2%
21	6/3/04	18	ESHGNYSTQVGATQAGRF	1910.0	90.5%	79.4%
22	6/1/04	17	TQVGATQAGRFSITPAA	1675.9	89.7%	81.2%
23	6/1/04	17	AGRFSITPAAPSITLKL	1793.1	95.9%	80.2%

Table 1 (continued)						
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Purity by HPLC ^a	Peptide Content ^b
24	6/1/04	18	PAAPSYTLKLGEYGEVTV	1895.1	93.6%	81.6%
25	5/28/04	18	KLGEYGEVTVDCEPRSGI	1952.2	97.3%	81.5%
26	6/17/04	18	TVDCEPRSGIDTNAYYVM	2034.3	95.5%	83.7%
27	6/1/04	18	GIDTNAYYVMTVGTKTFL	1994.3	90.6%	81.0%
28	6/1/04	17	VMTVGTKTFLVHREWF	2082.5	90.6%	80.7%
29	6/3/04	16	TFLVHREWFMDLNLPW	2104.5	92.5%	80.3%
30	6/30/04	18	EWFMDLNLPWSSAGSTVW	2126.4	91.6%	79.2%
31	6/16/04	17	PWSSAGSTVWRNRETLM	1978.2	73.8%	80.1%
32	6/3/04	17	TVWRNRETLMFEFEPPHA	2145.4	92.7%	78.6%
33	6/2/04	18	TLMEFEPPHATKQSVIAL	2044.4	98.7%	81.0%
34	6/16/04	18	HATKQSVIALGSQEGALH	1847.1	90.5%	76.5%
35	6/2/04	17	ALGSQEGALHQALAGAI	1606.8	99.2%	78.2%
36	6/2/04	19	ALHQALAGAIPVEFSSNTV	1925.2	93.0%	80.4%
37	6/1/04	18	IPVEFSSNTVKLTSGHLK	1957.3	93.9%	81.3%
38	6/1/04	18	TVKLTSGHLKCRVKMEKL	2071.6	94.5%	79.5%
39	5/28/04	17	LKCRVKMEKLQLKGTTY	2039.5	94.3%	79.7%
40	5/28/04	18	EKLQLKGTTYGVCSKAFK	2001.4	94.6%	80.0%
41	5/28/04	16	TYGVCSKAFKFLGTPA	1690.0	90.3%	78.8%
42	5/28/04	18	KAFKFLGTPADTGHTVV	1846.1	96.0%	79.1%
43	6/3/04	15	PADTGHTVVLELQY	1599.8	91.1%	78.1%
44	5/27/04	18	HGTVVLELQYTGTDGPK	1918.2	92.4%	79.8%
45	5/27/04	18	LQYTGTDGPKVPISSVA	1836.1	90.7%	80.2%
46	6/3/04	18	PCKVPISSVASLNDLTPV	1840.2	93.5%	81.1%
47	6/2/04	16	VASLNDLTPVGRLVTV	1653.9	96.3%	78.6%
48	6/3/04	17	LTPVGRLVTVNPFVSA	1769.1	91.3%	79.3%
49	6/8/04	18	VTVNPFVSVATANAKVLI	1843.2	92.2%	80.0%
50	6/7/04	16	VATANAKVLIELEPPF	1712.0	99.0%	80.9%
51	6/8/04	17	KVLIELEPPFGDSYIVV	1918.3	94.8%	79.4%
52	6/8/04	17	PPFGDSYIVVGRGEQQI	1862.1	83.5%	82.6%
53	6/14/04	16	IVVGRGEQQINHWHK	1938.2	95.4%	72.0%
54	6/15/04	18	EQQINHWHKSGSSIGKA	2044.2	94.4%	71.2%
55	6/14/04	18	HKSGSSIGKAFTTTLKGA	1791.0	92.8%	80.1%
56	6/4/04	16	KAFTTTLKGAQRLAAL	1690.0	94.3%	79.6%
57	6/21/04	17	LKGAQRLAALGDTAWDF	1833.1	90.9%	78.9%
58	6/9/04	17	AALGDTAWDFGSGVGVF	1669.8	93.1%	81.3%
59	6/24/04	18	WDFGSGGVFTSVGKAVH	1850.1	90.4%	81.1%
60	6/8/04	18	VFTSVGKAVHQVFGGAFR	1907.2	94.6%	80.1%
61	6/8/04	18	VHQVFGGAFRSLFGGMSW	1983.3	93.5%	79.8%
62	7/12/04	18	FRSLFGGMSWITQGLLGA	1941.3	76.4%	82.3%
63	6/8/04	17	SWITQGLLGAALLWMI	1872.3	88.4%	79.9%
64	6/8/04	18	LGALLLWMIINARDRSIA	1970.4	96.3%	79.3%
65	6/9/04	16	GINARDRSIALTFLAV	1717.0	94.4%	80.8%
66	7/14/04	17	RSIALTFLAVGGVLLFL	1790.2	15.1%	80.3%
67	6/30/04	16	LAVGGVLLFLSVNVHA	1608.9	23.6%	81.6%

^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	Expected	1.00	1.00	3.00	1.00	1.00	3.00			2.00		1.00	2.00		2.00				1.00
	Actual	0.83	1.08	2.99	0.00 ^a	1.03	3.00			2.17		1.17	1.95		1.78				1.07
2	Expected	1.00	1.00	2.00		1.00	2.00			3.00			1.00		1.00	1.00	1.00		3.00
	Actual	1.00	1.01	1.94		0.95	2.01			2.77			1.03		0.91	0.82	0.00 ^b		2.79
3	Expected	1.00		2.00	1.00	1.00	2.00		1.00	2.00					2.00	2.00	1.00		3.00
	Actual	0.93		2.06	0.00 ^a	1.20	2.00		0.92	1.84					1.56	1.38	0.00 ^b		2.88
4	Expected			2.00	1.00	1.00	1.00		2.00	1.00	2.00	1.00		1.00	2.00	2.00			2.00
	Actual			1.88	0.00 ^a	1.15	1.00		1.81	0.77	2.15	0.95		1.04	1.40	1.52			1.99
5	Expected			3.00					2.00		3.00	4.00		1.00	1.00	2.00			1.00
	Actual			3.00					2.12		3.03	3.32		0.98	0.98	1.77			1.16
6	Expected	3.00		3.00		2.00			1.00	1.00	1.00	3.00		1.00		1.00			2.00
	Actual	3.00		3.19		2.09			0.98	1.01	1.01	3.08		1.03		0.98			2.18
7	Expected	4.00	1.00	2.00	1.00	2.00				2.00			1.00		1.00	2.00			1.00
	Actual	4.00	0.91	1.94	0.00 ^a	2.08				2.21		0.92			1.04	2.40			1.08
8	Expected	2.00	1.00	1.00	1.00	1.00				2.00	1.00				3.00	2.00		2.00	2.00
	Actual	2.06	0.83	1.07	0.00 ^a	1.00				2.19	1.11				3.05	1.66		2.23	1.78
9	Expected	3.00		1.00	1.00					2.00	1.00	1.00		1.00	2.00	3.00			1.00
	Actual	3.00		1.01	0.00 ^a					2.11	1.06	1.03		1.20	1.86	2.77			1.16
10	Expected	3.00	1.00	2.00	1.00	1.00	1.00	1.00		1.00	2.00	1.00		1.00	1.00	2.00			
	Actual	3.00	0.98	2.04	0.00 ^a	1.04	1.03	1.11		1.06	2.07	0.80		1.20	0.95	1.85			
11	Expected	3.00	2.00	3.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00	1.00				1.00
	Actual	3.09	2.24	3.09	0.00 ^a	1.00	1.04	1.12			1.13	1.00	0.89	0.89		1.01			0.98
12	Expected	2.00	3.00	2.00	1.00	1.00	2.00					1.00	1.00	1.00			1.00		3.00
	Actual	2.00	3.08	1.99	0.00 ^a	0.99	2.08					0.99	1.01	1.13			0.00 ^b		1.56 ^c
13	Expected		2.00	2.00	2.00	1.00	5.00			1.00			1.00				1.00		2.00
	Actual		2.23	1.95	0.00 ^a	1.01	5.00			1.08			1.14				0.00 ^b		0.94 ^c
14	Expected		1.00	1.00	1.00		6.00		1.00	1.00	1.00		1.00		1.00		1.00		
	Actual		1.01	1.01	0.00 ^a		6.00		1.10	1.06	1.13		0.98		1.06		0.00 ^b		
15	Expected	2.00		1.00	2.00		4.00	Expected	1.00	1.00	2.00	2.00	2.00	1.00	1.00		1.00		
	Actual	2.00		0.99	0.00 ^a		4.21		1.10	1.10	2.14		1.95		1.05		0.80		
16	Expected	3.00	1.00	1.00	2.00		2.00		2.00		2.00		1.00		2.00	2.00			
	Actual	3.32	0.87	1.16	0.00 ^a		2.00		2.18		2.35		1.15		2.21	1.51			
17	Expected	2.00	1.00	1.00	1.00	1.00	1.00		3.00	1.00	3.00		1.00		1.00	2.00			
	Actual	2.10	1.11	1.06	0.00 ^a	1.11	1.06		2.63	1.00	3.25		1.10		0.91	1.70			
18	Expected	1.00	1.00	1.00		2.00	1.00	1.00	3.00	1.00	2.00		1.00			1.00		1.00	2.00
	Actual	1.00	0.97	1.08		2.11	1.07	1.10	2.84	1.00	1.92		1.10			1.09		1.16	1.90
19	Expected	1.00				2.00	1.00	2.00	2.00		1.00		1.00	1.00	1.00	2.00		1.00	3.00
	Actual	1.03				1.99	1.00	1.87	2.07		1.00		0.98	1.02	0.88	1.87		1.02	3.17
20	Expected			1.00		2.00	2.00	2.00						1.00	2.00	3.00		1.00	3.00
	Actual			1.06		2.00	2.08	1.75						1.03	1.95	2.69		1.08	2.85
21	Expected	2.00	1.00	1.00		3.00	3.00	1.00					1.00		2.00	2.00		1.00	1.00
	Actual	2.17	1.11	0.94		3.00	3.15	0.94					1.06		1.71	2.16		0.90	1.11
22	Expected	4.00	1.00			2.00	2.00		1.00				1.00	1.00	1.00	3.00			1.00
	Actual	4.07	1.03			2.00	2.08		1.10				1.02	0.99	1.03	2.86			1.20
23	Expected	3.00	1.00				1.00		1.00	2.00	1.00		1.00	2.00	2.00	2.00		1.00	
	Actual	2.85	0.92				1.00		0.99	2.15	1.04		0.90	1.85	1.87	1.77		1.01	
24	Expected	2.00				2.00	2.00			2.00	1.00			2.00	1.00	2.00		2.00	2.00
	Actual	1.94				2.00	2.07			2.26	1.07			1.89	0.91	1.83		1.98	2.37
25	Expected		1.00	1.00	1.00	3.00	3.00		1.00	1.00	1.00			1.00	1.00	1.00		1.00	2.00
	Actual		1.05	1.04	0.48 ^a	3.00	3.16		1.04	1.00	1.10			1.00	1.02	0.86		1.05	1.97

Table 2 - Amino Acid Analysis (continued)

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)
26	Expected	1.00	1.00	3.00	1.00	1.00	1.00		1.00			1.00		1.00	1.00	2.00		2.00	2.00
	Actual	0.98	1.01	2.83	0.00 ^a	0.83	1.00		1.14			1.06		1.02	1.07	1.50		1.91	1.96
27	Expected	1.00		2.00			2.00		1.00	1.00	1.00	1.00	1.00			4.00		2.00	2.00
	Actual	0.97		1.89			2.00		1.06	1.15	1.02	0.96	0.93			3.75		1.87	2.08
28	Expected		1.00			1.00	1.00	1.00		1.00	1.00	2.00	2.00			3.00	1.00		3.00
	Actual		1.04			1.00	1.05	0.81		1.11	1.06	1.89	1.93			2.79	0.00 ^b		3.11
29	Expected		1.00	2.00		1.00		1.00		3.00		1.00	2.00	1.00		1.00	2.00		1.00
	Actual		1.03	1.91		1.00		0.91		3.17		0.91	1.94	0.98		1.13	0.00 ^b		0.96
30	Expected	1.00		2.00		1.00	1.00			2.00		1.00	1.00	1.00	3.00	1.00	3.00		1.00
	Actual	1.08		1.94		0.89	1.13			2.00		1.20	0.99	0.86	2.98	0.80	0.00 ^b		0.80
31	Expected	1.00	2.00	1.00		1.00	1.00			1.00		1.00		1.00	3.00	2.00	2.00		1.00
	Actual	1.00	1.95	0.98		0.98	1.08			1.00		0.98		0.92	2.68	1.65	0.00 ^b		0.93
32	Expected	1.00	2.00	1.00		4.00		1.00		1.00		1.00	1.00	1.00		2.00	1.00		1.00
	Actual	0.98	2.08	1.01		4.00		1.06		1.04		0.97	1.04	0.96		1.67	0.00 ^b		0.72
33	Expected	2.00				4.00		1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	2.00			1.00
	Actual	1.78				4.00		1.07	0.49 ^c	2.06	1.06	0.92	1.15	1.00	0.72	1.86			0.41 ^c
34	Expected	3.00				3.00	2.00	2.00	1.00	2.00	1.00				2.00	1.00			1.00
	Actual	3.00				3.12	2.22	2.16	0.61 ^c	2.02	1.13				1.82	1.00			0.61 ^c
35	Expected	5.00				3.00	3.00	1.00	1.00	3.00					1.00				
	Actual	4.98				3.00	3.10	1.07	1.12	3.20					0.93				
36	Expected	4.00		1.00		2.00	1.00	1.00	1.00	2.00			1.00	1.00	2.00	1.00			2.00
	Actual	3.89		1.02		2.00	1.03	1.04	1.07	2.08			1.00	1.03	1.88	0.84			2.22
37	Expected			1.00		1.00	1.00	1.00	1.00	2.00	2.00		1.00	1.00	3.00	2.00			2.00
	Actual			0.84		0.85	1.00	0.97	0.92	2.02	1.86		0.89	0.84	2.54	1.60			1.61
38	Expected		1.00		1.00	1.00	1.00	1.00		3.00	4.00	1.00			1.00	2.00			2.00
	Actual		0.90		0.00 ^a	1.00	1.06	1.08		3.20	3.52	0.99			0.97	1.65			1.62
39	Expected		1.00		1.00	2.00	1.00			3.00	4.00	1.00				2.00		1.00	1.00
	Actual		0.90		0.00 ^a	2.00	1.09			2.92	3.74	0.97				2.02		1.05	0.83
40	Expected	1.00			1.00	2.00	2.00			2.00	4.00		1.00		1.00	2.00		1.00	1.00
	Actual	1.00			0.00 ^a	1.92	2.02			2.02	4.12		1.00		0.99	1.84		1.05	1.06
41	Expected	2.00			1.00		2.00			1.00	2.00		2.00	1.00	1.00	2.00		1.00	1.00
	Actual	2.00			0.34 ^a		2.12			1.05	2.12		1.89	1.00	1.01	1.92		1.10	0.95
42	Expected	2.00		1.00			3.00	1.00		1.00	2.00		2.00	1.00		3.00			2.00
	Actual	2.00		1.00			3.00	1.00		1.00	2.00		2.00	1.00		3.00			1.60 ^c
43	Expected	1.00		1.00		2.00	2.00	1.00		2.00				1.00		2.00		1.00	2.00
	Actual	1.00		1.01		2.02	2.05	1.06		2.06				0.97		1.65		1.07	1.18 ^c
44	Expected			1.00	1.00	2.00	3.00	1.00		2.00	1.00			1.00		3.00		1.00	2.00
	Actual			0.99	0.00 ^a	1.89	3.00	1.00		1.90	0.98			1.18		2.66		1.06	1.42 ^c
45	Expected	1.00		1.00	1.00	1.00	2.00		1.00	1.00	1.00			2.00	2.00	2.00		1.00	2.00
	Actual	1.01		1.01	0.52 ^a	1.00	2.11		1.04	1.08	1.04			2.00	2.03	1.95		1.03	2.10
46	Expected	1.00		2.00	1.00				1.00	2.00	1.00			3.00	3.00	1.00			3.00
	Actual	1.00		2.00	0.00 ^a				1.07	2.15	0.99			3.30	2.77	0.99			3.35
47	Expected	1.00	1.00	2.00			1.00			3.00				1.00	1.00	2.00			4.00
	Actual	1.00	1.04	2.02			1.06			3.19				1.04	1.00	1.87			4.26
48	Expected	1.00	1.00	1.00			1.00			2.00			1.00	2.00	1.00	2.00			5.00
	Actual	0.99	0.95	0.95			1.00			1.94			0.89	1.87	1.00	1.69			4.78
49	Expected	3.00		2.00					1.00	1.00	1.00		1.00	1.00	1.00	2.00			5.00
	Actual	3.00		2.02					1.10	0.91	1.00		0.97	1.01	1.00	1.86			5.90
50	Expected	3.00		1.00		2.00			1.00	2.00	1.00		1.00	2.00		1.00			2.00
	Actual	3.00		1.01		2.04			1.08	2.05	0.97		1.10	1.99		1.00			2.37

Table 2 - Amino Acid Analysis (continued)

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)
51	Expected			1.00		2.00	1.00		2.00	2.00	1.00		1.00	2.00	1.00			1.00	3.00
	Actual			0.99		2.00	1.13		1.67 ^c	1.98	0.91		1.09	2.01	0.97			1.08	2.59 ^c
52	Expected		1.00	1.00		3.00	3.00		2.00				1.00	2.00	1.00			1.00	2.00
	Actual		1.12	0.91		3.00	3.03		1.77 ^c				1.16	1.84	0.87			1.01	1.64 ^c
53	Expected		1.00	1.00		3.00	2.00	3.00	2.00		1.00						1.00		2.00
	Actual		1.06	0.93		3.00	2.06	3.12	1.43 ^c		1.07						0.00 ^b		1.38 ^c
54	Expected	1.00		1.00		3.00	2.00	3.00	2.00		2.00				3.00		1.00		
	Actual	0.96		0.88		3.00	2.07	3.07	2.12		2.11				2.87		0.00 ^b		
55	Expected	2.00					3.00	1.00	1.00	1.00	3.00		1.00		3.00	3.00			
	Actual	2.00					3.07	1.05	1.09	1.07	3.19		0.96		2.85	2.75			
56	Expected	4.00	1.00			1.00	1.00			3.00	2.00		1.00			3.00			
	Actual	3.89	0.98			1.00	1.03			3.09	2.06		0.98			2.75			
57	Expected	4.00	1.00	2.00		1.00	2.00			3.00	1.00		1.00			1.00	1.00		
	Actual	4.24	1.07	2.18		1.00	2.23			3.22	1.20		1.03			1.19	0.00 ^b		
58	Expected	3.00		2.00			4.00			1.00			2.00		1.00	1.00	1.00		2.00
	Actual	3.00		1.99			4.13			1.08			1.77		1.01	0.91	0.00 ^b		2.19
59	Expected	1.00		1.00			4.00	1.00			1.00		2.00		2.00	1.00	1.00		4.00
	Actual	1.01		1.01			4.00	0.81			1.11		1.65		1.88	0.98	0.00 ^b		3.80
60	Expected	2.00	1.00			1.00	3.00	1.00			1.00		3.00		1.00	1.00			4.00
	Actual	2.00	1.02			0.99	3.12	0.76			1.09		2.49		0.96	0.93			4.20
61	Expected	1.00	1.00			1.00	4.00	1.00		1.00		1.00	3.00		2.00		1.00		2.00
	Actual	1.00	0.98			0.99	4.05	0.75		1.06		0.94	2.69		1.87		0.00 ^b		1.72
62	Expected	1.00	1.00			1.00	4.00		1.00	3.00		1.00	2.00		2.00	1.00	1.00		
	Actual	1.00	1.08			1.12	3.95		0.99	2.90		1.09	2.22		1.97	0.88	0.00 ^b		
63	Expected	1.00				1.00	3.00		2.00	5.00		1.00			1.00	1.00	2.00		
	Actual	1.00				0.99	3.07		2.02	5.15		0.98			0.94	0.90	0.00 ^b		
64	Expected	3.00	2.00	2.00			2.00		2.00	4.00		1.00			1.00		1.00		
	Actual	3.00	2.24	1.90			2.18		2.23	4.12		0.99			0.91		0.00 ^b		
65	Expected	3.00	2.00	2.00			1.00		2.00	2.00			1.00		1.00	1.00			1.00
	Actual	2.95	2.10	1.93			1.00		2.10	2.17			1.03		0.96	0.97			1.12
66	Expected	2.00	1.00				2.00		1.00	5.00			2.00		1.00	1.00			2.00
	Actual	2.00	1.96				2.10		1.07	4.54			2.40		0.99	0.88			1.89
67	Expected	2.00		1.00			2.00	1.00		4.00			1.00		1.00				4.00
	Actual	2.29		1.28			2.00	0.93		4.05			1.02		0.86				4.05

^aCys was completely or partially destroyed during hydrolysis

^bTrp was completely destroyed during hydrolysis

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

Date: 23 JUL 2014

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication

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