

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	LATVSDLSTKAACPTM	1608.9	83.6%	79.3%
10	6/15/04	18	LSTKAACPTMGEAHNDKR	1930.2	97.7%	80.9%
11	6/23/04	18	TMGEAHNDKRAPAFVCR	2018.3	98.0%	79.2%
12	6/18/04	18	KRAPAFVCROGVVDRGW	2060.4	99.0%	80.3%
13	6/23/04	17	CROGVVDRGWGNGCGLF	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	AGRFSITPAAPSYTLKL	1793.1	95.9%	80.2%

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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	TFLVHREWFMDLNLPLW	2104.5	92.5%	80.3%
30	6/30/04	18	EWFMDLNLWSSAGSTVW	2126.4	91.6%	79.2%
31	6/16/04	17	PWSSAGSTVWRNRETLM	1978.2	73.8%	80.1%
32	6/3/04	17	TVWRNRETLMFEFEHPA	2145.4	92.7%	78.6%
33	6/2/04	18	TLMEFEHPHATKQSVIAL	2044.4	98.7%	81.0%
34	6/16/04	18	HATKQSVIALGSEALH	1847.1	90.5%	76.5%
35	6/2/04	17	ALGSEALHQAALAGAI	1606.8	99.2%	78.2%
36	6/2/04	19	ALHQAALAGAIPEFSSNTV	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	LKCRVKMEKLQKGTYY	2039.5	94.3%	79.7%
40	5/28/04	18	EKLQKGTYYGVCSKAFK	2001.4	94.6%	80.0%
41	5/28/04	16	TYGVCSKAFKFLGTPA	1690.0	90.3%	78.8%
42	5/28/04	18	KAFKFLGTPADTGHGTVV	1846.1	96.0%	79.1%
43	6/3/04	15	PADTGHGTVVLELQY	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	LTPVGRLVTVNPFVSVA	1769.1	91.3%	79.3%
49	6/8/04	18	VTNPFVSVATANAKVLI	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	IVVGRGEQQINHHWHK	1938.2	95.4%	72.0%
54	6/15/04	18	EQQINHHWHKSGSSIGKA	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	AALGDTAWDFGSGGVF	1669.8	93.1%	81.3%
59	6/24/04	18	WDFGSGGVFVSVGKAVH	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	LGALLWMIINARDRSIA	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

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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	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		1.00	1.00	2.00		2.00		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

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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

Certificate of Analysis for NR-435

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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