

**Peptide Array West Nile Virus Protein M**

**Catalog No. NR-434**

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**Product Description:** A 9-peptide array spanning the M protein of the NY99-flamingo382-99 strain of West Nile Virus. Peptides are 16- to 18-mers, with 10 amino acid overlaps. Each vial contains 1 mg of lyophilized NR-434.

**Lot: 3745089**

The following information applies to all 9 peptides:

- Appearance White lyophilized powder
- Mass spectral analysis Electrospray "Exhibits correct MW"
- Counter Ion Trifluoroacetate

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

Table 1						
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
1	5/21/2004	18	SLTVQTHGESTLANKKGA	1842.0	93.6%	78.5%
2	5/24/2004	17	ESTLANKKGAWMDSTKA	1838.1	91.5%	79.2%
3	5/26/2004	16	KGAWMDSTKATRYLVK	1855.2	95.0%	79.8%
4	5/26/2004	17	STKATRYLVKTESWILR	2052.4	91.7%	79.9%
5	5/26/2004	18	LVKTESWILRNPGYALVA	2030.4	95.9%	80.3%
6	6/30/2004	17	LRNPGYALVAAVIGWML	1844.3	85.8%	80.4%
7	6/9/2004	18	LVAAVIGWMLGSNTMQRV	1946.4	93.3%	79.2%
8	6/30/2004	18	MLGSNTMQRVVFVLLLLL	2033.6	50.5%	81.3%
9	6/30/2004	16	RVVFVLLLLLVAPAYS	1759.2	23.9%	77.7%

<sup>a</sup>% full-length  
<sup>b</sup>Remainder is salt and water

Table 2 - Amino Acid Analysis

Peptide		Ala (A)	Arg (R)	Asx (N,D)	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	2.00		1.00	2.00	2.00	1.00		2.00	2.00				2.00	3.00			1.00
	Actual	1.86		1.12	2.05	2.00	0.95		2.22	2.13				2.09	2.65			0.95
2	Expected	3.00		2.00	1.00	1.00			1.00	3.00	1.00			2.00	2.00	1.00		
	Actual	3.00		2.03	1.01	1.06			1.06	3.16	1.01			1.85	1.87	0.00 <sup>a</sup>		
3	Expected	2.00	1.00	1.00		1.00			1.00	3.00	1.00			1.00	2.00	1.00	1.00	1.00
	Actual	1.92	0.93	0.97		1.00			0.92	2.79	1.04			0.95	1.67	0.00 <sup>a</sup>	1.00	0.85
4	Expected	1.00	2.00		1.00			1.00	2.00	2.00				2.00	3.00	1.00	1.00	1.00
	Actual	1.07	2.03		1.00			0.75	1.83	1.80				2.24	2.66	0.00 <sup>a</sup>	1.07	0.87
5	Expected	2.00	1.00	1.00	1.00	1.00		1.00	3.00	1.00			1.00	1.00	1.00	1.00	1.00	2.00
	Actual	2.07	1.13	1.09	1.00	1.13		0.75	2.93	0.87			1.11	1.04	0.96	0.00 <sup>a</sup>	1.02	1.92
6	Expected	3.00	1.00	1.00		2.00			1.00	3.00	1.00		1.00			1.00	1.00	2.00
	Actual	2.00	1.10	0.99		2.10			0.51 <sup>b</sup>	2.85	1.20		1.06			0.00 <sup>a</sup>	1.15	1.63 <sup>b</sup>
7	Expected	2.00	1.00	1.00	1.00	2.00			1.00	2.00	2.00			1.00	1.00	1.00		3.00
	Actual	1.93	0.98	1.03	0.98	2.00			0.55 <sup>b</sup>	2.00	1.96			1.02	0.90	0.00 <sup>a</sup>		2.57 <sup>b</sup>
8	Expected		1.00	1.00	1.00	1.00			5.00		2.00	1.00		1.00	1.00			4.00
	Actual		1.10	0.99	0.95	1.00			5.20		2.20	0.98		0.98	0.96			1.69 <sup>b</sup>
9	Expected	2.00	1.00						4.00			1.00	1.00	1.00			1.00	5.00
	Actual	2.00	0.89						4.40			0.95	1.02	1.08			1.20	2.30 <sup>b</sup>

<sup>a</sup>Trp was completely destroyed during hydrolysis

<sup>b</sup>Val-Ile and/or Val-Val bonds were only partially destroyed during hydrolysis

Date: 23 JUL 2014

Signature:



Title:

Technical Manager, BEI Authentication

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