

Peptide Array West Nile Virus Protein N

Catalog No. NR-432

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Product Description: A 15-peptide array spanning the N protein of the NY99-flamingo382-99 strain of West Nile Virus. Peptides are 16- to 18-mers, with 9 or 10 amino acid overlaps. Each vial contains 1 mg of lyophilized NR-432.

Lot: 3745086

The following information applies to all fifteen 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 ^a	Peptide Content ^b
1	5/21/2004	18	MSKKPGGPGKSRAVNMLK	1886.3	90.4%	79.6%
2	5/21/2004	17	GKSRAVNMLKRGMPRVL	1913.4	92.8%	77.1%
3	5/21/2004	18	MLKRGMPRVLSLIGLKRA	2039.6	96.3%	78.3%
4	6/14/2004	18	VLSLIGLKRAMLSLIDGK	1927.4	76.3%	79.8%
5	5/28/2004	18	RAMLSLIDGKGPIRFVLA	1957.4	91.7%	81.7%
6	7/14/2004	17	GKGPIRFVLALLAFFRF	1952.4	73.9%	79.5%
7	6/23/2004	18	VLALLAFFRFTAIPTRA	1978.4	74.7%	78.2%
8	5/21/2004	16	RFTAIPTRAVLDRWR	1929.3	92.2%	77.5%
9	6/24/2004	17	TRAVLDRWRGVNKQTAM	2002.3	88.7%	79.0%
10	5/21/2004	17	RGVNKQTAMKHLLSFKK	1986.4	91.6%	81.7%
11	5/24/2004	18	AMKHLLSFKKELGTLTSA	1975.4	93.5%	79.0%
12	5/24/2004	17	KKELGTLTSAINRRSSK	1889.2	98.6%	78.2%
13	5/24/2004	17	TSAINRRSSKQKKGKGGK	1902.2	92.7%	77.7%
14	5/24/2004	17	SSKQKKGKGTGIAVMI	1789.2	97.0%	78.1%
15	6/21/2004	18	GGKTGIAVMIGLIASVGA	1615.0	47.7%	78.1%

^a% full-length
^bRemainder 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)	Val (V)
1	Expected	1.00	1.00	1.00		3.00			1.00	4.00	2.00		2.00	2.00			1.00
	Actual	0.97	1.01	0.97		3.00			1.01	3.99	1.88		1.92	1.79			1.05
2	Expected	1.00	3.00	1.00		2.00			2.00	2.00	2.00		1.00	1.00			2.00
	Actual	1.00	3.03	0.96		2.09			1.91	2.13	2.02		1.03	0.99			1.81
3	Expected	1.00	3.00			2.00		1.00	4.00	2.00	2.00		1.00	1.00			1.00
	Actual	1.00	3.09			2.02		0.91	3.89	2.05	1.88		1.00	0.99			0.80
4	Expected	1.00	1.00	1.00		2.00		2.00	5.00	2.00	1.00			2.00			1.00
	Actual	0.99	1.00	0.90		1.93		2.10	5.00	1.89	0.96			1.82			1.09
5	Expected	2.00	2.00	1.00		2.00		2.00	3.00	1.00	1.00	1.00	1.00	1.00			1.00
	Actual	2.00	1.76	0.95		2.18		1.75	2.98	1.04	1.00	0.96	1.01	0.96			0.84
6	Expected	2.00	2.00			2.00		1.00	3.00	1.00		4.00	1.00				1.00
	Actual	2.00	1.95			2.10		0.95	3.20	1.12		3.85	0.99				1.10
7	Expected	5.00	2.00					1.00	3.00			3.00	1.00		2.00		1.00
	Actual	5.00	2.10					0.91	2.80			3.01	1.00		1.99		1.12
8	Expected	3.00	4.00	1.00				1.00	1.00			1.00	1.00		2.00	1.00	1.00
	Actual	3.00	4.16	1.04				0.98	0.82			1.05	1.15		2.05	0.00 ^a	0.80
9	Expected	2.00	3.00	2.00	1.00	1.00			1.00	1.00	1.00				2.00	1.00	2.00
	Actual	2.00	3.42	2.09	1.02	1.09			0.92	1.11	1.04				2.02	0.00 ^a	2.17
10	Expected	1.00	1.00	1.00	1.00	1.00	1.00		2.00	4.00	1.00	1.00		1.00	1.00		1.00
	Actual	1.00	1.06	0.93	1.04	1.01	0.98		2.08	4.17	1.05	0.89		1.01	0.98		1.09
11	Expected	2.00			1.00	1.00	1.00		4.00	3.00	1.00	1.00		2.00	2.00		
	Actual	2.00			1.01	1.14	0.99		4.19	3.18	0.97	0.91		2.09	1.96		
12	Expected	1.00	2.00	1.00	1.00	1.00		1.00	2.00	3.00				3.00	2.00		
	Actual	1.00	1.93	0.98	0.96	1.10		0.96	2.04	3.02				3.02	1.86		
13	Expected	1.00	3.00	1.00	1.00	2.00		1.00		4.00				3.00	1.00		
	Actual	1.06	3.12	0.99	0.99	2.00		1.04		4.19				3.12	0.93		
14	Expected	1.00	1.00		1.00	3.00		2.00		4.00	1.00			2.00	1.00		1.00
	Actual	0.89	1.02		1.00	3.13		1.95		4.21	1.06			1.88	0.95		1.00
15	Expected	3.00				5.00		3.00	1.00	1.00	1.00			1.00	1.00		2.00
	Actual	3.00				5.20		3.10	1.12	1.15	0.89			1.08	0.95		2.20

^aTrp was completely destroyed during hydrolysis

Date: 22 JUL 2014

Signature:

Dorothy C. Young

Title:

Technical Manager, BEI Authentication

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