

**Peptide Array, Influenza Virus A/New York/348/2003 (H1N1) Matrix Protein 2**

**Catalog No. NR-2614**

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

**Product Description:** A 15-peptide array spanning the matrix protein 2 (M2) of the A/New York/348/2003 (H1N1) strain of influenza virus (GenBank: ABA12731). Peptides are 14- to 17-mers, with 11 amino acid overlaps.

**Lot: N34-1 to N34-15**

The following information applies to all peptides:

- Appearance White lyophilized powder
- Mass spectral analysis Correct MW by MALDI-TOF
- Counter Ion 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 <sup>a</sup>	Peptide Content <sup>b</sup>
1 of 15	1/15/2006	16	1 MSLLTEVETPIRNEWG 16	1875.15	-0.34	92.8%	76.0%
2 of 15	1/15/2006	17	6 EVETPIRNEWGCRCNDS 22	2008.19	-1.22	90.5%	80.0%
3 of 15	1/15/2006	17	12 RNEWGCRCNDSSDPLVV 28	1950.15	-0.81	80.1%	76.0%
4 of 15	1/15/2006	17	18 RCNDSSDPLVVAASIIG 34	1716.95	0.46	97.5%	76.0%
5 of 15	1/15/2006	17	24 DPLVVAASIIGIVHLIL 40	1743.18	2.12	83.3%	78.0%
6 of 15	1/15/2006	17	30 ASIIGIVHLILWIIDRL 46	1945.44	1.83	96.0%	67.0%
7 of 15	1/15/2006	17	36 VHLILWIIDRLFSKSIY 52	2116.60	1.03	93.9%	75.0%
8 of 15	1/15/2006	17	42 IIDRLFSKSIYRIFKHG 58	2093.52	0.04	81.7%	75.0%
9 of 15	1/15/2006	17	48 SKSIYRIFKHGLKRGPS 64	1974.36	-0.85	97.0%	79.0%
10 of 15	1/15/2006	17	54 IFKHGLKRGPESTEGVPE 70	1852.14	-0.77	94.8%	73.0%
11 of 15	1/15/2006	17	60 KRGPESTEGVPESMREEY 76	1952.15	-1.67	97.8%	74.0%
12 of 15	1/15/2006	17	66 EGVPESMREEYREEQQN 82	2110.22	-2.26	82.2%	73.0%
13 of 15	1/15/2006	17	72 MREEYREEQQNAVDADD 88	2098.16	-2.09	80.0%	79.0%
14 of 15	1/15/2006	17	78 EEQQNAVDADDGHFVSI 94	1873.92	-0.77	80.9%	74.0%
15 of 15	1/15/2006	14	84 VDADDGHFVSIELE 97	1545.64	-0.04	99.8%	81.0%

<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)	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 15	Expected		1.00	1.00		3.00	1.00		1.00	2.00		1.00		1.00	1.00	2.00	1.00		1.00
	Actual		0.85	0.94		2.79	1.00		0.71	2.04		1.10		1.02	0.99	1.86	0.00 <sup>a</sup>		0.87
2 of 15	Expected		2.00	3.00	2.00	3.00	1.00		1.00					1.00	1.00	1.00	1.00		1.00
	Actual		1.86	3.00	0.56 <sup>b</sup>	2.90	1.11		0.84					1.04	0.92	0.96	0.00 <sup>a</sup>		0.82
3 of 15	Expected		2.00	4.00	2.00	1.00	1.00			1.00				1.00	2.00		1.00		2.00
	Actual		2.04	4.07	0.68 <sup>b</sup>	1.03	1.09			1.00				1.09	1.97		0.00 <sup>a</sup>		0.78 <sup>c</sup>
4 of 15	Expected	2.00	1.00	3.00	1.00		1.00		2.00	1.00				1.00	3.00				2.00
	Actual	1.90	1.09	3.11	0.55 <sup>b</sup>		0.87		0.70 <sup>c</sup>	0.95				1.14	3.00				0.60 <sup>c</sup>
5 of 15	Expected	2.00		1.00			1.00	1.00	4.00	3.00				1.00	1.00				3.00
	Actual	2.07		1.01			1.10	0.83	1.6 <sup>c</sup>	2.82				1.06	1.00				0.77 <sup>c</sup>
6 of 15	Expected	1.00	1.00	1.00			1.00	1.00	6.00	3.00					1.00		1.00		1.00
	Actual	1.00	1.09	0.85			1.05	0.71	1.85 <sup>c</sup>	2.85					0.86		0.00 <sup>a</sup>		0.43 <sup>c</sup>
7 of 15	Expected		1.00	1.00				1.00	4.00	3.00	1.00		1.00		2.00		1.00	1.00	1.00
	Actual		0.89	0.91				0.93	1.90 <sup>c</sup>	3.02	0.96		1.01		2.04		0.00 <sup>a</sup>	1.00	0.75
8 of 15	Expected		2.00	1.00			1.00	1.00	4.00	1.00	2.00		2.00		2.00			1.00	
	Actual		1.96	0.86			1.00	0.98	1.95 <sup>c</sup>	1.03	2.05		2.06		2.06			0.95	
9 of 15	Expected		2.00				2.00	1.00	2.00	1.00	3.00		1.00	1.00	3.00			1.00	
	Actual		2.00				2.06	0.97	1.86	1.07	3.05		0.90	1.02	2.79			0.95	
10 of 15	Expected		1.00			2.00	3.00	1.00	1.00	1.00	2.00		1.00	2.00	1.00	1.00			1.00
	Actual		1.10			2.00	3.10	1.09	0.93	1.05	1.84		0.86	1.88	1.04	0.99			0.82
11 of 15	Expected		2.00			4.00	2.00				1.00	1.00		2.00	2.00	1.00		1.00	1.00
	Actual		2.07			4.00	1.95				0.84	1.07		1.81	1.81	0.84		1.13	0.89
12 of 15	Expected		2.00	1.00		8.00	1.00					1.00		1.00	1.00			1.00	1.00
	Actual		2.11	1.00		8.03	1.13					1.12		0.89	0.88			1.06	0.87
13 of 15	Expected	2.00	2.00	4.00		6.00						1.00						1.00	1.00
	Actual	2.10	2.09	4.00		6.10						1.09						1.08	0.98
14 of 15	Expected	2.00		4.00		4.00	1.00	1.00	1.00				1.00	1.00					2.00
	Actual	2.17		4.01		4.06	1.08	1.09	1.00				0.96	0.83					1.80
15 of 15	Expected	1.00		3.00		2.00	1.00	1.00	1.00	1.00			1.00	1.00					2.00
	Actual	1.00		3.00		2.00	1.10	1.09	0.85	1.05			0.91	0.89					1.87

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

<sup>b</sup>Cys was partially destroyed during hydrolysis

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

Date: 17 JUN 2014

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.

