

Peptide Array, Influenza Virus A/California/7/2004 (H3N2) (egg-passaged) Hemagglutinin Protein Diverse Peptides

Catalog No. NR-9473

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

Product Description: NR-9473 contains 13 peptides that represent regions of amino acid sequence diversity in the hemagglutinin (HA) protein of egg-passaged influenza virus A/California/7/2004 (H3N2) (GenPept: ABO37490) compared to the HA of influenza virus A/Wisconsin/67e5/2005 (H3N2) (GenPept: ABO37599). Peptides are 15- to 17-mers, with 11 or 12 amino acid overlaps.

Lot: P98415H

The following information applies to all peptides:

- Appearance
 - Mass spectral analysis
 - Counter ion
- Lyophilized powder
Correct MW by MALDI-TOF
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
20 of 94	1/7/2008	16	109 LRSLVASSGTLEFNNE 124	1737	81	82.24
21 of 94	12/12/2007	17	114 ASSGTLEFNNEFNWTG 130	1861	86	80.42
22 of 94	1/23/2008	17	119 LEFNNEFNWTGVTQNG 135	1957	85	93.16
23 of 94	12/5/2007	17	125 SFNWTGVTQNGTSSSCK 141	1804	97	70.66
24 of 94	12/10/2007	16	131 VTQNGTSSSCKRRSNN 146	1739	100	76.06
25 of 94	11/29/2007	17	136 TSSSCKRRSNNFFSRL 152	1977	97	82.81
32 of 94	12/11/2007	17	177 KLYIWGVHHPGTNNDQI 193	1992	97	65.01
33 of 94	11/29/2007	17	183 VHHPGTNNDQISLYTQA 199	1895	100	82.56
34 of 94	12/10/2007	17	189 NNDQISLYTQASGRITV 205	1880	88	75.78
35 of 94	12/27/2007	17	195 LYTQASGRITVSTKRSQ 211	1896	100	72.20
38 of 94	12/18/2007	15	213 TVIPNIGSRPRVRDI 227	1693	95	73.30
39 of 94	12/18/2007	17	217 NIGSRPRVRDIPSRISI 233	1936	99	63.70
40 of 94	1/21/2008	17	223 RVRDIPSRISIIYWTIVK 239	2103	90	74.55

^a% full-length
^bRemainder is salt & 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)
20 of 94	Expected	1.00	1.00	2.00		2.00	1.00			3.00			1.00		3.00	1.00			1.00
	Actual	1.02	0.96	2.06		1.95	1.04			2.92			1.05		2.82	0.97			1.04
21 of 94	Expected	1.00		3.00		2.00	2.00			1.00			2.00		3.00	2.00	1.00		
	Actual	1.00		2.90		2.04	2.10			0.97			2.13		2.87	1.95	0.00 ^b		
22 of 94	Expected			4.00		3.00	2.00			1.00			2.00		1.00	2.00	1.00		1.00
	Actual			3.80		3.07	1.99			1.01			2.10		0.79 ^c	1.99	0.00 ^b		1.02
23 of 94	Expected			2.00	1.00	1.00	2.00				1.00		1.00		4.00	3.00	1.00		1.00
	Actual			1.98	0.00 ^a	0.86	2.12				1.08		1.01		4.10	3.09	0.00 ^b		1.08
24 of 94	Expected		2.00	3.00	1.00	1.00	1.00				1.00				4.00	2.00			1.00
	Actual		1.91	2.85	0.00 ^a	1.07	1.06				0.94				3.67	2.10			1.02
25 of 94	Expected		3.00	2.00	1.00					1.00	1.00		2.00		6.00	1.00			
	Actual		3.10	2.02	0.00 ^a					1.02	1.01		2.12		5.89	0.91			
32 of 94	Expected			3.00		1.00	2.00	2.00	2.00	1.00	1.00			1.00		1.00	1.00	1.00	1.00
	Actual			3.09		0.91	2.11	2.08	2.01	1.05	1.01			1.08		0.91	0.00 ^b	1.05	0.91
33 of 94	Expected	1.00		3.00		2.00	1.00	2.00	1.00	1.00			1.00	1.00	2.00	2.00		1.00	1.00
	Actual	0.92		3.14		1.96	1.05	2.03	1.05	1.07			0.94	0.87	1.94			1.03	0.98
34 of 94	Expected	1.00	1.00	3.00		2.00	1.00		2.00	1.00					2.00	2.00		1.00	1.00
	Actual	1.07	0.98	2.90		1.94	1.07		1.95	1.08					1.92	1.87		1.03	0.96
35 of 94	Expected	1.00	2.00			2.00	1.00		1.00	1.00	1.00				3.00	3.00		1.00	1.00
	Actual	1.02	1.95			1.97	0.98		1.06	1.06	1.00				3.08	3.06		1.06	1.04
38 of 94	Expected		3.00	2.00			1.00		3.00					2.00	1.00	1.00			2.00
	Actual		3.03	2.08			1.05		2.96					1.93	0.99	0.96			2.07
39 of 94	Expected		4.00	2.00			1.00		4.00					2.00	3.00				1.00
	Actual		4.09	1.97			1.00		3.93					1.94	2.74				1.04
40 of 94	Expected		3.00	1.00					4.00		1.00			1.00	2.00	1.00	1.00	1.00	2.00
	Actual		3.05	1.03					3.87		1.08			1.01	1.94	1.02	0.00 ^b	1.02	1.87

^aCys was totally destroyed during hydrolysis
^bTrp was totally destroyed during hydrolysis
^cSer and Thr were only partially destroyed during hydrolysis

Date: 29 JUL 2014

Signature: *Michael R. Gypker*

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.

