

**Peptide Array, Hepatitis C Virus, J4, NS4A Protein**

**Catalog No. NR-3743**

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

**Product Description:** The 7-peptide array spans the NS4A protein of hepatitis C virus, J4 (genotype 1b; GenPept: AAC15722). Peptides are 14- to 18-mers, with 11 amino acid overlaps.

**Lot: N662-1 to N662-7**

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 7	7/27/2006	18	1 STWVLVGGVLAALAAAYCL 18	1807.20	1.83	Crude	88.8%
2 of 7	7/27/2006	18	8 GVLAALAAAYCLTTGSVVI 25	1722.09	1.88	Crude	88.3%
3 of 7	7/27/2006	17	15 AYCLTTGSVIVVGRIL 31	1778.20	1.72	80.3%	88.6%
4 of 7	7/27/2006	18	21 GSVVIVGRILSGKPAVV 38	1764.20	1.52	89.3%	83.8%
5 of 7	7/27/2006	18	28 RIILSGKPAVVPDREVLV 45	2025.44	0.3	94.9%	81.6%
6 of 7	7/27/2006	17	35 PAVVPDREVLVQEFDEM 51	2037.29	-0.42	100.0%	89.9%
7 of 7	7/27/2006	14	41 REVLVQEFDEMEEC 54	1820.00	-1.08	91.2%	88.9%

<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 7	Expected	4.00			1.00	0.00	2.00			4.00					1.00	1.00	1.00	1.00	3.00
	Actual	4.19			0.58 <sup>b</sup>	0.00	2.21			4.00					0.97	0.90	0.00 <sup>a</sup>	1.54	2.74
2 of 7	Expected	4.00			1.00		2.00		1.00	3.00					1.00	2.00	0.00	1.00	3.00
	Actual	3.84			0.51 <sup>b</sup>		2.14		0.70 <sup>c</sup>	2.50					1.03	1.93	0.00	0.74	1.64 <sup>c</sup>
3 of 7	Expected	1.00	1.00		1.00		2.00		3.00	2.00					1.00	2.00	0.00	1.00	3.00
	Actual	1.00	0.86		0.60 <sup>b</sup>		1.72		1.65 <sup>c</sup>	1.82					0.66	2.00	0.00	1.05	1.53 <sup>c</sup>
4 of 7	Expected	1.00	1.00				3.00		3.00	1.00	1.00			1.00	2.00		0.00		5.00
	Actual	1.05	0.84				2.95		0.89 <sup>c</sup>	0.68	1.00			1.08	1.96		0.00		2.95 <sup>c</sup>
5 of 7	Expected	1.00	2.00	1.00		1.00	1.00		2.00	2.00	1.00			2.00	1.00		0.00	1.00	3.00
	Actual	0.96	2.30	0.84		0.91	1.07		0.81 <sup>c</sup>	1.60	1.00			2.28	1.09		0.00	1.18	1.87 <sup>c</sup>
6 of 7	Expected	1.00	1.00	2.00		4.00				1.00		1.00	1.00	2.00			0.00	1.00	3.00
	Actual	0.75	0.98	1.69		3.62				0.84		0.83	1.10	1.80			0.00	1.00	1.94 <sup>c</sup>
7 of 7	Expected		1.00	1.00	1.00	6.00				1.00		1.00	1.00				0.00	1.00	1.00
	Actual		1.04	0.96	0.45 <sup>b</sup>	5.32				0.91		0.98	1.00				0.00	1.00	0.82

<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: 11 OCT 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication

ATCC<sup>®</sup>, 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<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> 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.

