

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

**Catalog No. NR-3737**

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**Product Description:** The 28-peptide array spans the core protein of hepatitis C virus, J4 (genotype 1b; GenPept: AAC15722). Peptides are 13- to 19-mers, with 11 or 12 amino acid overlaps.

**Lot: T5246-1 to T5246-28**

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 28	4/14/2011	18	1 MSTNPKPQRKTKRNTNRR 18	2213.57	-2.66	88.2%	71.8%
2 of 28	4/14/2011	18	7 PQRKTKRNTNRRPQDVKF 24	2269.62	-2.49	89.0%	71.3%
3 of 28	4/14/2011	18	14 NTNRRPQDVKFPGGGQIV 31	1983.23	-1.1	95.9%	82.0%
4 of 28	4/14/2011	17	21 DVKFPGGGQIVGGVYLL 37	1719.03	0.69	97.8%	88.3%
5 of 28	4/14/2011	18	27 GGQIVGGVYLLPRRGPR 44	1908.30	0.04	95.1%	81.7%
6 of 28	4/14/2011	18	34 VYLLPRRGPRLGVRATRK 51	2108.59	-0.6	97.4%	74.0%
7 of 28	4/14/2011	15	41 GPRLGVRATRKASER 55	1653.92	-1.18	96.1%	71.5%
8 of 28	4/14/2011	18	45 GVRATRKASERSQPRGRR 62	2068.35	-1.93	88.0%	69.5%
9 of 28	4/14/2011	18	52 ASERSQPRGRRQPIPKAR 69	2090.40	-1.98	95.9%	72.4%
10 of 28	4/14/2011	18	59 RGRRQPIPKARRPEGRAW 76	2187.56	-2.02	82.3%	70.6%
11 of 28	4/14/2011	18	66 PKARRPEGRAWAQPGYPW 83	2123.43	-1.63	98.4%	77.8%
12 of 28	4/14/2011	19	73 GRAWAQPGYPWPLYGNEGL 91	2132.38	-0.77	98.3%	90.3%
13 of 28	4/14/2011	18	81 YPWPLYGNEGLGWAGWLL 98	2092.40	-0.01	96.2%	91.4%
14 of 28	4/14/2011	17	88 NEGLGWAGWLLSPRGRS 104	1856.09	-0.55	89.6%	84.4%
15 of 28	4/14/2011	18	94 AGWLLSPRGRSRSWGP 111	1940.17	-0.78	87.5%	84.0%
16 of 28	4/14/2011	17	101 RGRSRSWGP 117	2024.25	-2.36	98.9%	72.1%
17 of 28	4/14/2011	17	107 WGP 123	2008.33	-1.34	100.0%	74.6%
18 of 28	4/14/2011	18	113 RRRSRNLGKVIDLTCGF 130	2092.47	-0.57	83.5%	75.4%
19 of 28	4/14/2011	18	120 GKVIDLTCGFADLMGYI 137	1917.29	0.83	80.1%	89.4%
20 of 28	4/14/2011	18	127 TCGFADLMGYIPLVGAPL 144	1838.23	1.17	98.8%	88.0%
21 of 28	4/14/2011	18	134 MGYIPLVGAPLGGAAARAL 151	1727.12	1.03	100.0%	88.3%
22 of 28	4/14/2011	18	141 GAPLGGAAARALAHGVRVL 158	1686.01	0.74	94.1%	78.7%
23 of 28	4/14/2011	18	148 ARALAHGVRVLEDGVNYA 165	1911.17	0.14	96.2%	82.0%
24 of 28	4/14/2011	15	155 VRVLEDGVNYATGNL 169	1619.81	0.05	80.8%	87.7%

Table 1

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
25 of 28	4/14/2011	18	159 EDGVNYATGNLPGCSFSI 176	1844.00	-0.04	84.9%	88.0%
26 of 28	4/14/2011	17	166 TGNLPGCSFSIFLLALL 182	1766.15	1.48	88.6%	88.6%
27 of 28	4/14/2011	18	172 CSFSIFLLALLSCLTIPA 189	1912.40	2.08	Crude	89.1%
28 of 28	4/14/2011	13	179 LALLSCLTIPASA 191	1272.58	1.82	95.9%	83.2%

<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 28	Expected		4.00	3.00		1.00					3.00	1.00		2.00	1.00	3.00			
	Actual		3.70	3.09		0.86					2.65	1.04		2.00	1.00	2.68			
2 of 28	Expected		4.00	3.00		2.00					3.00		1.00	2.00		2.00			1.00
	Actual		4.00	3.05		1.98					2.85		1.10	2.03		1.98			0.90
3 of 28	Expected		2.00	3.00		2.00	3.00		1.00		1.00		1.00	2.00		1.00			2.00
	Actual		2.00	3.30		1.85	3.20		0.67 <sup>a</sup>		0.88		1.10	2.00		0.94			1.46 <sup>a</sup>
4 of 28	Expected			1.00		1.00	5.00		1.00	2.00	1.00		1.00	1.00				1.00	3.00
	Actual			1.06		1.07	5.11		0.62 <sup>a</sup>	1.95	1.06		0.93	1.00				0.79	1.70 <sup>a</sup>
5 of 28	Expected		3.00			1.00	5.00		1.00	3.00				2.00				1.00	2.00
	Actual		3.10			0.95	4.95		0.62 <sup>a</sup>	2.66				2.09				1.00	1.40 <sup>a</sup>
6 of 28	Expected	1.00	5.00				2.00			3.00	1.00			2.00		1.00		1.00	2.00
	Actual	1.00	4.56				1.90			2.50	1.08			2.08		0.99		1.08	1.80
7 of 28	Expected	2.00	4.00			1.00	2.00			1.00	1.00			1.00	1.00	1.00			1.00
	Actual	2.00	3.67			1.05	2.00			0.98	0.96			0.95	1.07	1.10			0.87
8 of 28	Expected	2.00	6.00			2.00	2.00				1.00			1.00	2.00	1.00			1.00
	Actual	1.95	6.00			2.05	1.75				0.95			1.00	1.85	1.07			0.80
9 of 28	Expected	2.00	5.00			3.00	1.00		1.00		1.00			3.00	2.00				
	Actual	1.82	4.55			2.68	1.02		1.00		0.87			3.00	1.74				
10 of 28	Expected	2.00	6.00			2.00	2.00		1.00		1.00			3.00			1.00		
	Actual	2.00	5.60			1.96	1.91		0.98		0.96			3.00			0.00 <sup>b</sup>		
11 of 28	Expected	3.00	3.00			2.00	2.00				1.00			4.00			2.00	1.00	
	Actual	2.92	3.00			1.88	2.10				1.03			3.99			0.00 <sup>b</sup>	1.15	
12 of 28	Expected	2.00	1.00	1.00		2.00	4.00			2.00				3.00			2.00	2.00	
	Actual	1.80	1.07	0.97		1.75	3.82			1.71				3.00			0.00 <sup>b</sup>	2.10	
13 of 28	Expected	1.00		1.00		1.00	4.00			4.00				2.00			3.00	2.00	
	Actual	0.98		1.05		1.00	3.87			3.70				2.00			0.00 <sup>b</sup>	1.95	
14 of 28	Expected	1.00	2.00	1.00		1.00	4.00			3.00				1.00	2.00		2.00		
	Actual	0.95	2.20	0.97		0.95	3.90			3.00				1.08	1.95		0.00 <sup>b</sup>		
15 of 28	Expected	1.00	2.00	1.00			3.00			2.00				3.00	3.00	1.00	2.00		
	Actual	1.00	1.99	0.96			2.84			1.80				3.07	2.75	0.98	0.00 <sup>b</sup>		
16 of 28	Expected		6.00	1.00			2.00							3.00	3.00	1.00	1.00		
	Actual		5.41	1.06			2.00							3.00	2.70	1.00	0.00 <sup>b</sup>		
17 of 28	Expected		4.00	2.00			2.00		1.00	1.00	1.00			2.00	1.00	1.00	1.00		1.00
	Actual		3.65	2.10			2.03		0.63 <sup>a</sup>	0.99	1.00			2.02	1.01	0.96	0.00 <sup>b</sup>		0.65 <sup>a</sup>
18 of 28	Expected		4.00	2.00	1.00		2.00		1.00	2.00	1.00		1.00		1.00	2.00			1.00
	Actual		3.85	2.14	0.55 <sup>c</sup>		2.20		0.57 <sup>a</sup>	2.00	0.97		0.99		1.10	1.75			0.61 <sup>a</sup>

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)
19 of 28	Expected	1.00		2.00	1.00		3.00		2.00	2.00	1.00	1.00	1.00			2.00		1.00	1.00
	Actual	1.00		1.80	0.57 <sup>c</sup>		3.02		1.40 <sup>a</sup>	1.79	0.86	1.00	1.10			1.61		0.81	0.60 <sup>a</sup>
20 of 28	Expected	2.00		1.00	1.00		3.00		1.00	3.00		1.00	1.00	2.00		1.00		1.00	1.00
	Actual	1.96		0.90	0.56 <sup>c</sup>		2.99		0.85	2.75		1.12	1.11	2.00		0.75		0.88	1.10
21 of 28	Expected	4.00	1.00				4.00		1.00	3.00		1.00		2.00				1.00	1.00
	Actual	3.63	1.10				4.06		1.00	2.71		1.10		2.00				0.90	1.04
22 of 28	Expected	5.00	2.00				4.00	1.00		3.00				1.00					2.00
	Actual	5.00	1.95				4.10	1.10		2.76				1.14					1.80
23 of 28	Expected	4.00	2.00	2.00		1.00	2.00	1.00		2.00								1.00	3.00
	Actual	3.75	1.82	2.01		1.03	1.98	1.10		1.70								1.00	2.75
24 of 28	Expected	1.00	1.00	3.00		1.00	2.00			2.00						1.00		1.00	3.00
	Actual	1.00	0.90	3.00		0.96	2.01			1.81						0.92		1.00	2.77
25 of 28	Expected	1.00		3.00	1.00	1.00	3.00		1.00	1.00			1.00	1.00	2.00	1.00		1.00	1.00
	Actual	1.01		2.99	0.59 <sup>c</sup>	1.03	2.80		0.94	0.96			0.85	1.00	1.81	0.87		0.87	0.96
26 of 28	Expected	1.00		1.00	1.00		2.00		1.00	5.00			2.00	1.00	2.00	1.00			
	Actual	0.85		0.84	0.50 <sup>c</sup>		2.20		0.85	4.59			1.58	1.00	1.94	0.96			
27 of 28	Expected	2.00			2.00				2.00	5.00			2.00	1.00	3.00	1.00			
	Actual	1.66			1.05 <sup>c</sup>				1.75	4.75			1.71	1.00	2.70	0.76			
28 of 28	Expected	3.00			1.00				1.00	4.00				1.00	2.00	1.00			0.00
	Actual	3.00			0.61 <sup>c</sup>				0.95	3.75				1.20	2.00	0.89			0.00

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

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

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

Date: 23 AUG 2011

Signature:

*Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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