

**Peptide Array, Hepatitis C Virus, J4, p7 Protein**

**Catalog No. NR-3740**

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**Product Description:** The 8-peptide array spans the p7 protein of hepatitis C virus, J4 (genotype 1b; GenPept: AAC15722). Peptides are 17- to 18-mers, with 11 or 12 amino acid overlaps.

**Lot: T5249-1 to T5249-8**

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 8  | 4/14/2011    | 17     | 1 ALENLVVLNAASVAGAH 17   | 1648.89                | 1.06           | 96.3%                       | 87.6%                        |
| 2 of 8  | 4/14/2011    | 18     | 7 VLNAASVAGAHGILSFLV 24  | 1739.06                | 1.63           | 96.0%                       | 87.4%                        |
| 3 of 8  | 4/14/2011    | 18     | 14 AGAHGILSFLVFFCAAWY 31 | 1973.34                | 1.52           | Crude                       | 89.4%                        |
| 4 of 8  | 4/14/2011    | 17     | 21 SFLVFFCAAWYIKGRLA 37  | 1992.44                | 1.22           | 82.6%                       | 86.1%                        |
| 5 of 8  | 4/14/2011    | 18     | 27 CAAWYIKGRLAPGAAYAF 44 | 1929.29                | 0.56           | 96.2%                       | 84.3%                        |
| 6 of 8  | 4/14/2011    | 18     | 34 GRLAPGAAYAFYGVWPLL 51 | 1922.28                | 0.73           | 93.2%                       | 89.4%                        |
| 7 of 8  | 4/14/2011    | 17     | 41 AYAFYGVWPLLLLLLAL 57  | 1936.43                | 1.97           | 95.6%                       | 89.7%                        |
| 8 of 8  | 4/14/2011    | 17     | 47 VWPLLLLLLALPPRAYA 63  | 1919.45                | 1.45           | 97.4%                       | 88.4%                        |

<sup>a</sup>% full-length

<sup>b</sup>Remainder is salt and water

Table 2 - Amino Acid Analysis

| Peptide |          | Ala<br>(A) | Arg<br>(R) | Asx<br>(N,D) | Cys<br>(C)        | Glx<br>(Q,E) | Gly<br>(G) | His<br>(H) | Ile<br>(I) | Leu<br>(L) | Lys<br>(K) | Met<br>(M) | Phe<br>(F) | Pro<br>(P) | Ser<br>(S) | Thr<br>(T) | Trp<br>(W)        | Tyr<br>(Y) | Val<br>(V)        |
|---------|----------|------------|------------|--------------|-------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------|------------|-------------------|
| 1 of 8  | Expected | 5.00       |            | 2.00         |                   | 1.00         | 1.00       | 1.00       |            | 3.00       |            |            |            |            | 1.00       |            |                   |            | 3.00              |
|         | Actual   | 4.51       |            | 1.96         |                   | 0.99         | 1.15       | 1.00       |            | 2.70       |            |            |            |            | 0.90       |            |                   |            | 1.49 <sup>a</sup> |
| 2 of 8  | Expected | 4.00       |            | 1.00         |                   |              | 2.00       | 1.00       | 1.00       | 3.00       |            |            | 1.00       |            | 2.00       |            |                   |            | 3.00              |
|         | Actual   | 3.57       |            | 0.85         |                   |              | 1.95       | 1.00       | 0.77       | 2.30       |            |            | 1.01       |            | 1.80       |            |                   |            | 2.45              |
| 3 of 8  | Expected | 4.00       |            |              | 1.00              |              | 2.00       | 1.00       | 1.00       | 2.00       |            |            | 3.00       |            | 1.00       |            | 1.00              | 1.00       | 1.00              |
|         | Actual   | 3.38       |            |              | 0.57 <sup>b</sup> |              | 2.01       | 1.08       | 0.95       | 1.85       |            |            | 2.60       |            | 0.85       |            | 0.00 <sup>c</sup> | 1.00       | 0.74              |
| 4 of 8  | Expected | 3.00       | 1.00       |              | 1.00              |              | 1.00       |            | 1.00       | 2.00       | 1.00       |            | 3.00       |            | 1.00       |            | 1.00              | 1.00       | 1.00              |
|         | Actual   | 2.83       | 1.15       |              | 0.50 <sup>b</sup> |              | 1.10       |            | 0.77       | 1.83       | 0.88       |            | 2.69       |            | 1.10       |            | 0.00 <sup>c</sup> | 1.00       | 0.85              |
| 5 of 8  | Expected | 6.00       | 1.00       |              | 1.00              |              | 2.00       |            | 1.00       | 1.00       | 1.00       |            | 1.00       | 1.00       |            |            | 1.00              | 2.00       |                   |
|         | Actual   | 5.61       | 1.21       |              | 0.51 <sup>b</sup> |              | 2.11       |            | 0.87       | 1.10       | 0.85       |            | 1.07       | 1.10       |            |            | 0.00 <sup>c</sup> | 2.00       |                   |
| 6 of 8  | Expected | 4.00       | 1.00       |              |                   |              | 3.00       |            |            | 3.00       |            |            | 1.00       | 2.00       |            |            | 1.00              | 2.00       | 1.00              |
|         | Actual   | 3.59       | 1.09       |              |                   |              | 3.00       |            |            | 2.65       |            |            | 1.05       | 2.00       |            |            | 0.00 <sup>c</sup> | 1.95       | 0.87              |
| 7 of 8  | Expected | 3.00       |            |              |                   |              | 1.00       |            |            | 7.00       |            |            | 1.00       | 1.00       |            |            | 1.00              | 2.00       | 1.00              |
|         | Actual   | 2.48       |            |              |                   |              | 1.04       |            |            | 6.51       |            |            | 1.04       | 0.85       |            |            | 0.00 <sup>c</sup> | 2.00       | 0.70              |
| 8 of 8  | Expected | 3.00       | 1.00       |              |                   |              |            |            |            | 7.00       |            |            |            | 3.00       |            |            | 1.00              | 1.00       | 1.00              |
|         | Actual   | 2.66       | 1.11       |              |                   |              |            |            |            | 6.59       |            |            |            | 3.00       |            |            | 0.00 <sup>c</sup> | 1.10       | 0.75              |

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

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

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

Date: 11 OCT 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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