

## Peptide Array, Dengue Virus Type 3, Sleman/1978, E Protein

### Catalog No. NR-511

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**Product Description:** The 68-peptide array spans the E protein of Dengue virus type 3, Sleman/1978 (GenPept: AAT69740). Peptides are 12- to 20-mers, with 10 or 11 amino acid overlaps.

**Lot: 3898692**

The following information applies to all peptides:

- Appearance White lyophilized powder
- Mass spectral analysis Electrospray "Exhibits correct MW"
- Counter Ion 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 <sup>a</sup>	Peptide Content <sup>b</sup>
1	11/15/2004	18	MRCVGVGNRDFVEGLSGA	1867.1	96.0%	84.0%
2	11/18/2004	17	RDFVEGLSGATWVDVVL	1863.1	24.0%	90.0%
3	11/15/2004	16	SGATWVDVLEHGCV	1628.8	91.0%	89.0%
4	11/30/2004	17	DVVLEHGCVTTMAKNK	1802.0	90.0%	79.0%
5	11/15/2004	17	GCVTTMAKNKPTLDIEL	1834.2	95.0%	84.0%
6	11/18/2004	18	KNKPTLDIELQKTEATQL	2070.4	95.0%	81.0%
7	11/18/2004	18	ELQKTEATQLATLRKLCI	2059.5	95.0%	81.0%
8	11/18/2004	18	TQLATLRKLCIEGKITNV	2001.4	94.0%	80.0%
9	11/17/2004	15	LCIEGKITNVTTDSR	1649.9	90.0%	83.0%
10	11/14/2004	18	KITNVTTDSRCPTQGEAI	1934.2	92.0%	84.0%
11	11/19/2004	19	SRCPQTQGEAILPEEQDQNH	2152.3	96.0%	85.0%
12	11/15/2004	17	ILPEEQDQNHVCKHTYV	2053.3	98.0%	81.0%
13	11/27/2004	15	DQNHVCKHTYVDRGW	1858.0	93.0%	75.0%
14	11/18/2004	17	CKHTYVDRGWGNGCGLF	1913.2	98.0%	80.0%
15	11/18/2004	16	RGWNGCGLFGKGSV	1607.9	95.0%	83.0%
16	11/24/2004	18	CGLFGKGSVLTCAKFCQL	1875.3	30.0%	84.0%
17	11/18/2004	18	LVTCAKFCLESIEGKVV	1967.4	48.0%	89.0%
18	11/15/2004	17	CLESIEGKVQHENLKY	1989.3	92.0%	80.0%
19	11/30/2004	17	KVVQHENLKYTVIITVH	2021.4	60.0%	77.0%
20	11/19/2004	17	LKYTVIITVHTGDQHQV	1952.2	62.0%	80.0%
21	11/17/2004	17	TVHTGDQHQVGNETQGV	1806.9	95.0%	84.0%
22	11/18/2004	18	HQVGNETQGVTAETPQA	1880.0	94.0%	89.0%
23	11/19/2004	17	GVTAETPQASTVEAIL	1699.9	91.0%	89.0%
24	11/15/2004	18	PQASTVEAILPEYGTGL	1859.1	94.0%	89.0%
25	11/13/2004	18	ILPEYGTGLGECSPRTGL	1919.2	98.0%	89.0%

Table 1 (continued)						
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Purity by HPLC <sup>a</sup>	Peptide Content <sup>b</sup>
26	11/18/2004	18	GLECSPTGLDFNEMILL	2008.3	45.0%	90.0%
27	11/23/2004	18	GLDFNEMILLTMKNKAWM	2155.6	72.0%	85.0%
28	11/10/2004	17	LLTMKNKAWMVHRQWFF	2236.7	98.0%	78.0%
29	11/18/2004	16	AWMVHRQWFFDLPLPW	2129.5	44.0%	85.0%
30	11/27/2004	15	RQWFFDLPLPWTSGA	1821.1	67.0%	89.0%
31	11/18/2004	17	DLPLPWTSGATTETPTW	1873.0	96.0%	89.0%
32	11/15/2004	17	SGATTETPTWNKCELLV	1875.1	96.0%	84.0%
33	11/17/2004	18	PTWNKCELLVTFKNAHAK	2125.5	92.0%	74.0%
34	11/18/2004	17	LVTFKNAHAKKQEVVVL	1924.3	99.0%	76.0%
35	11/19/2004	18	HAKKQEVVVLGSQEGAMH	1948.3	96.0%	76.0%
36	11/3/2004	16	VLGSQEGAMHTALTGA	1542.7	98.0%	88.0%
37	11/18/2004	18	GAMHTALTGATEIQTSGG	1702.9	58.0%	89.0%
38	11/24/2004	18	GATEIQTSGGTSIFAGHL	1746.9	72.0%	89.0%
39	11/15/2004	18	GGTSIFAGHLKRLKMDK	1962.4	96.0%	70.0%
40	11/15/2004	18	HLKRLKMDKLELKGMSY	2193.7	96.0%	71.0%
41	11/15/2004	18	DKLELKGMSYAMCLNAFV	2033.5	91.0%	85.0%
42	11/15/2004	15	SYAMCLNAFVLKKEV	1716.1	94.0%	83.0%
43	12/5/2004	18	LNAFVLKKEVSETQHGTI	2014.3	99.0%	77.0%
44	11/19/2004	17	EVSETQHGTILIKVEYK	1974.2	91.0%	81.0%
45	12/6/2004	18	GTILIKVEYKGEDAPCKI	1977.4	90.0%	80.0%
46	11/15/2004	20	YKGEDAPCKIPFSTEDGQGK	2170.4	99.0%	81.0%
47	11/18/2004	17	PFSTEDGQGKAHNRLI	1827.0	98.0%	79.0%
48	11/15/2004	17	GQGKAHNRLITANPVV	1732.0	98.0%	79.0%
49	11/15/2004	17	GRLITANPVVTKKEEPV	1851.2	98.0%	79.0%
50	11/13/2004	18	PVVTKKEEPVNIEAEPF	2023.3	97.0%	85.0%
51	11/15/2004	17	PVNIEAEPFGESENI	1825.0	95.0%	89.0%
52	11/15/2004	18	PPFGESENVIGIGDKALK	1855.2	93.0%	84.0%
53	11/15/2004	16	VIGIGDKALKINWYKK	1846.2	99.0%	75.0%
54	11/22/2004	18	KALKINWYKKGSSIGKMF	2099.6	94.0%	74.0%
55	11/13/2004	18	KKGSSIGKMFEATARGAR	1895.2	98.0%	72.0%
56	11/15/2004	15	MFEATARGARRMAIL	1694.1	93.0%	78.0%
57	11/18/2004	17	ARGARRMAILGDTAWDF	1907.2	68.0%	80.0%
58	11/17/2004	17	AILGDTAWDFGVSQGVV	1677.9	90.0%	89.0%
59	11/19/2004	18	WDFGVSQGVVLSLGMVH	1903.2	95.0%	85.0%
60	11/15/2004	17	VLNSLGMVHQIFGSAY	1864.2	93.0%	84.0%
61	11/18/2004	17	MVHQIFGSAYTALFSGV	1828.1	61.0%	90.0%
62	11/18/2004	18	SAYTALFSGVSWIMKIGI	1944.3	38.0%	89.0%
63	11/18/2004	17	GVSWIMKIGIVLLTWI	1886.4	31.0%	90.0%
64	11/15/2004	15	IGIGVLLTWIGLNSK	1583.9	94.0%	88.0%
65	11/19/2004	16	LLTWIGLNSKNTSMSF	1812.1	49.0%	89.0%
66	11/18/2004	18	LNSKNTSMSFSCIVIGII	1927.3	27.0%	90.0%
67	11/18/2004	18	SFSCIVIGIITLYLGAVV	1868.3	19.0%	90.0%
68	11/18/2004	12	IITLYLGAVVQA	1260.5	14.0%	87.0%

<sup>a</sup>% full-length  
<sup>b</sup>Remainder is salt and water

		<b>Table 2 - Amino Acid Analysis</b>																	
<b>Peptide</b>		<b>Ala (A)</b>	<b>Arg (R)</b>	<b>Asx (N,D)</b>	<b>Cys (C)</b>	<b>Glx (Q,E)</b>	<b>Gly (G)</b>	<b>His (H)</b>	<b>Ile (I)</b>	<b>Leu (L)</b>	<b>Lys (K)</b>	<b>Met (M)</b>	<b>Phe (F)</b>	<b>Pro (P)</b>	<b>Ser (S)</b>	<b>Thr (T)</b>	<b>Trp (W)</b>	<b>Tyr (Y)</b>	<b>Val (V)</b>
1	Expected	1.00	2.00	2.00	1.00	1.00	4.00			1.00		1.00	1.00		1.00				3.00
	Actual	0.98	1.97	1.99	0.56 <sup>a</sup>	1.00	4.02			1.02		1.02	1.00		1.00				3.02
2	Expected	1.00	1.00	2.00		1.00	2.00			2.00			1.00		1.00	1.00	1.00		4.00
	Actual	1.02	1.00	2.01		0.99	1.97			2.03			1.00		1.03	1.00	0.00 <sup>a</sup>		3.54 <sup>b</sup>
3	Expected	1.00		1.00	1.00	1.00	3.00	1.00		1.00					1.00	1.00	1.00		4.00
	Actual	0.98		1.02	0.54 <sup>a</sup>	1.01	3.01	0.97		1.02					0.97	1.01	0.00 <sup>a</sup>		3.49 <sup>b</sup>
4	Expected	1.00		2.00	1.00	1.00	2.00	1.00		1.00	2.00	1.00				2.00			3.00
	Actual	0.96		2.03	0.50 <sup>a</sup>	1.00	2.04	1.01		1.02	2.03	1.01				2.01			2.48 <sup>b</sup>
5	Expected	1.00		2.00	1.00	1.00	1.00		1.00	2.00	2.00	1.00		1.00		3.00			1.00
	Actual	1.01		2.00	0.57 <sup>a</sup>	1.00	1.02		1.00	2.01	2.00	0.99		0.99		3.02			1.00
6	Expected	1.00		2.00		4.00			1.00	3.00	3.00			1.00		3.00			
	Actual	1.03		2.00		4.01			1.03	3.05	2.96			1.00		2.99			
7	Expected	2.00	1.00		1.00	4.00			1.00	4.00	2.00					3.00			
	Actual	2.01	1.00		0.56 <sup>a</sup>	4.02			1.00	3.99	2.00					3.02			
8	Expected	1.00	1.00	1.00	1.00	2.00	1.00		2.00	3.00	2.00					3.00			1.00
	Actual	0.98	0.99	1.02	0.52 <sup>a</sup>	2.03	1.00		2.03	3.02	1.99					3.02			1.03
9	Expected		1.00	2.00	1.00	1.00	1.00		2.00	1.00	1.00				1.00	3.00			1.00
	Actual		1.03	2.00	0.56 <sup>a</sup>	1.00	0.99		2.03	1.00	1.02				0.97	3.00			1.03
10	Expected	1.00	1.00	2.00	1.00	2.00	1.00		2.00		1.00			1.00	1.00	4.00			1.00
	Actual	1.00	1.00	2.01	0.52 <sup>a</sup>	1.99	1.00		2.01		1.02			1.00	1.00	4.03			1.00
11	Expected	1.00	1.00	2.00	1.00	6.00	1.00	1.00	1.00	1.00				2.00	1.00	1.00			
	Actual	1.01	1.00	1.95	0.46 <sup>a</sup>	6.05	1.00	1.03	1.01	0.96				2.03	1.01	0.97			
12	Expected			2.00	1.00	4.00		2.00	1.00	1.00	1.00			1.00		1.00		1.00	2.00
	Actual			2.00	0.54 <sup>a</sup>	4.02		1.99	1.02	0.99	1.03			1.00		1.00		1.00	2.01
13	Expected		1.00	3.00	1.00	1.00	1.00	2.00			1.00					1.00	1.00	1.00	2.00
	Actual		1.00	2.95	0.57 <sup>a</sup>	1.02	1.00	2.03			1.00					0.99	0.00 <sup>a</sup>	0.98	2.03
14	Expected		1.00	2.00	2.00		4.00	1.00		1.00	1.00		1.00			1.00	1.00	1.00	1.00
	Actual		1.02	2.00	1.07 <sup>a</sup>		3.99	1.00		1.02	1.00		1.02			1.02	0.00 <sup>a</sup>	1.00	1.01
15	Expected		1.00	1.00	1.00		6.00			2.00	1.00		1.00		1.00		1.00		1.00
	Actual		1.02	1.00	0.56 <sup>a</sup>		5.98			2.03	1.00		1.00		0.98		0.00 <sup>a</sup>		1.02
16	Expected	1.00			3.00	1.00	3.00			3.00	2.00		2.00		1.00	1.00			1.00
	Actual	1.03			1.58 <sup>a</sup>	0.99	2.97			3.01	2.01		1.99		1.00	1.03			1.01
17	Expected	1.00			2.00	3.00	1.00		1.00	2.00	2.00		1.00		1.00	1.00			3.00
	Actual	1.03			1.02 <sup>a</sup>	3.02	1.00		0.99	2.01	2.01		1.02		1.00	1.02			2.55 <sup>b</sup>
18	Expected			1.00	1.00	4.00	1.00	1.00	1.00	2.00	2.00				1.00			1.00	2.00
	Actual			1.00	0.53 <sup>a</sup>	4.03	1.00	0.99	1.02	2.01	2.00				1.00			1.00	1.54 <sup>b</sup>
19	Expected			1.00		2.00		2.00	2.00	1.00	2.00					2.00		1.00	4.00
	Actual			0.97		2.01		1.97	1.25 <sup>b</sup>	1.00	1.99					2.03		1.01	3.21 <sup>b</sup>
20	Expected			1.00		2.00	1.00	2.00	2.00	1.00	1.00					3.00		1.00	3.00
	Actual			1.03		2.01	1.00	2.01	1.24 <sup>b</sup>	1.02	1.00					2.97		0.97	2.74 <sup>b</sup>
21	Expected			2.00		4.00	3.00	2.00								3.00			3.00
	Actual			2.01		3.99	3.00	1.99								3.02			3.01
22	Expected	2.00		1.00		5.00	2.00	1.00	1.00					1.00		3.00			2.00
	Actual	1.98		1.00		4.92	2.04	1.00	0.98					0.97		3.05			2.01
23	Expected	3.00				3.00	1.00		2.00	1.00				1.00	1.00	3.00			2.00
	Actual	3.02				3.02	0.97		1.97	1.00				1.03	1.00	3.01			1.97
24	Expected	2.00				3.00	2.00		1.00	3.00				2.00	1.00	2.00		1.00	1.00
	Actual	2.01				3.01	1.99		1.02	3.02				2.01	1.00	2.01		1.00	1.01
25	Expected		1.00		1.00	2.00	3.00		1.00	4.00				2.00	1.00	2.00		1.00	
	Actual		1.00		0.54 <sup>a</sup>	1.99	3.02		1.00	3.97				1.98	1.02	2.01		1.00	

Table 2 - Amino Acid Analysis (continued)																			
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)
26	Expected		1.00	2.00	1.00	2.00	2.00		1.00	4.00		1.00	1.00	1.00	1.00	1.00			
	Actual		0.98	1.99	0.52 <sup>a</sup>	2.03	2.00		1.02	4.03		1.02	1.00	1.02	1.00	1.02			
27	Expected	1.00		3.00		1.00	1.00		1.00	3.00	2.00	3.00	1.00			1.00	1.00		
	Actual	1.00		3.00		1.01	0.99		1.02	3.01	2.01	2.99	1.02			1.00	0.00 <sup>a</sup>		
28	Expected	1.00	1.00	1.00		1.00		1.00		2.00	2.00	2.00	2.00			1.00	2.00		1.00
	Actual	1.00	1.00	1.02		0.99		1.00		2.03	2.00	2.01	1.99			1.00	0.00 <sup>a</sup>		1.02
29	Expected	1.00	1.00	1.00		1.00		1.00		2.00		1.00	2.00	2.00			3.00		1.00
	Actual	1.03	1.00	1.02		1.00		0.99		2.01		1.00	2.01	1.99			0.00 <sup>a</sup>		1.01
30	Expected	1.00	1.00	1.00		1.00	1.00			2.00			2.00	2.00	1.00	1.00	2.00		
	Actual	1.00	0.97	1.00		1.02	1.01			2.03			2.01	1.99	0.98	0.97	0.00 <sup>a</sup>		
31	Expected	1.00		1.00		1.00	1.00			2.00				3.00	1.00	5.00	2.00		
	Actual	1.00		1.02		1.00	1.03			2.03				3.01	1.00	5.04	0.00 <sup>a</sup>		
32	Expected	1.00		1.00		2.00	1.00			2.00	2.00			1.00	1.00	4.00	1.00		1.00
	Actual	1.01		1.02		2.00	1.00			2.03	1.99			1.00	1.02	4.01	0.00 <sup>a</sup>		1.02
33	Expected	2.00		2.00		1.00		1.00		2.00	4.00		1.00	1.00		2.00	1.00		1.00
	Actual	2.03		1.98		1.03		1.00		2.03	4.05		1.00	0.98		2.03	0.00 <sup>a</sup>		1.00
34	Expected	2.00		1.00		2.00		1.00		2.00	3.00		1.00			1.00			4.00
	Actual	2.00		1.00		2.01		1.00		2.00	2.99		1.00			1.00			3.08 <sup>b</sup>
35	Expected	2.00				4.00	2.00	2.00		1.00	2.00	1.00			1.00				3.00
	Actual	2.01				3.99	2.01	2.00		1.03	2.04	1.00			1.00				2.01 <sup>b</sup>
36	Expected	3.00				2.00	3.00	1.00		2.00		1.00			1.00	2.00			1.00
	Actual	3.02				1.99	3.00	1.00		2.01		1.00			0.98	2.00			1.00
37	Expected	3.00				2.00	4.00	1.00	1.00	1.00		1.00			1.00	4.00			
	Actual	3.03				2.00	4.01	1.00	1.02	0.99		0.97			0.96	4.02			
38	Expected	2.00				2.00	4.00	1.00	2.00	1.00			1.00		2.00	3.00			
	Actual	2.03				2.01	4.05	1.00	2.03	1.00			0.99		2.03	3.01			
39	Expected	1.00	1.00	1.00	1.00		3.00	1.00	1.00	2.00	3.00	1.00	1.00		1.00	1.00			
	Actual	1.00	1.00	1.00	0.54 <sup>a</sup>		3.01	1.03	1.01	2.01	2.99	1.02	0.99		1.01	1.00			
40	Expected		1.00	1.00	1.00	1.00	1.00	1.00		4.00	4.00	2.00			1.00				1.00
	Actual		0.98	1.00	0.55 <sup>a</sup>	1.00	1.01	0.99		4.02	4.00	2.00			1.02				1.00
41	Expected	2.00		2.00	1.00	1.00	1.00			3.00	2.00	2.00	1.00		1.00				1.00
	Actual	2.00		2.00	0.56 <sup>a</sup>	1.02	1.00			3.02	2.00	2.01	1.00		1.02				1.02
42	Expected	2.00		1.00	1.00	1.00				2.00	2.00	1.00	1.00		1.00				1.00
	Actual	2.01		1.01	0.55 <sup>a</sup>	1.00				2.01	1.99	1.00	1.01		0.99				1.00
43	Expected	1.00		1.00		3.00	1.00	1.00	1.00	2.00	2.00		1.00		1.00	2.00			2.00
	Actual	0.98		1.03		2.98	1.00	1.02	1.00	2.01	2.03		1.00		1.03	1.96			2.03
44	Expected					4.00	1.00	1.00	2.00	1.00	2.00				1.00	2.00			1.00
	Actual					3.95	1.01	1.00	1.97	1.00	2.03				0.99	1.98			1.00
45	Expected	1.00		1.00	1.00	2.00	2.00		3.00	1.00	3.00			1.00		1.00			1.00
	Actual	1.02		1.03	0.49 <sup>a</sup>	1.99	2.00		3.02	1.00	3.03			1.00		1.02			1.00
46	Expected	1.00		2.00	1.00	3.00	3.00		1.00		3.00		1.00	2.00	1.00	1.00			1.00
	Actual	1.03		2.01	0.54 <sup>a</sup>	3.00	2.97		1.01		2.99		1.01	1.98	1.02	1.00			1.02
47	Expected	1.00	1.00	2.00		2.00	3.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00			
	Actual	1.03	1.03	1.96		1.99	3.01	1.00	0.97	1.01	0.96		1.00	1.00	1.01	0.99			
48	Expected	2.00	1.00	2.00		1.00	3.00	1.00	1.00	1.00	1.00			1.00		1.00			2.00
	Actual	1.98	1.00	2.01		1.01	2.99	1.00	1.01	1.01	1.00			1.00		1.00			1.53 <sup>b</sup>
49	Expected	1.00	1.00	1.00		2.00	1.00		1.00	1.00	2.00			2.00		2.00			3.00
	Actual	1.02	1.00	1.02		2.01	1.00		0.99	0.97	2.00			1.98		2.00			2.51 <sup>b</sup>
50	Expected	1.00		1.00		4.00			1.00		2.00		1.00	4.00		1.00			3.00
	Actual	1.00		1.02		4.03			1.01		2.01		1.02	3.99		1.02			2.56 <sup>b</sup>

**Table 2 - Amino Acid Analysis (continued)**

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)	
51	Expected	1.00		2.00		3.00	1.00		3.00				1.00	3.00	1.00					2.00
	Actual	1.00		1.99		3.02	1.02		2.50 <sup>b</sup>				1.02	3.00	1.00					1.48 <sup>b</sup>
52	Expected	1.00		2.00		1.00	3.00		3.00	1.00	2.00		1.00	2.00	1.00					1.00
	Actual	1.00		2.01		1.00	3.02		2.51 <sup>b</sup>	1.00	2.01		1.00	1.98	1.00					0.54 <sup>b</sup>
53	Expected	1.00		2.00			2.00		3.00	1.00	4.00						1.00	1.00	1.00	
	Actual	1.02		2.03			1.98		2.68 <sup>b</sup>	1.02	3.98						0.00 <sup>a</sup>	1.00	0.74 <sup>b</sup>	
54	Expected	1.00		1.00			2.00		2.00	1.00	5.00	1.00	1.00		2.00		1.00	1.00	1.00	
	Actual	0.99		1.02			2.01		1.97	1.00	5.07	0.97	0.99		1.98		0.00 <sup>a</sup>	1.02	1.02	
55	Expected	3.00	2.00	1.00		3.00			1.00		3.00	1.00	1.00	1.00	2.00	1.00				
	Actual	3.02	1.99	1.00		3.01			1.00		2.99	1.00	1.02	2.01	1.01					
56	Expected	4.00	3.00			1.00	1.00		1.00	1.00		2.00	1.00			1.00				
	Actual	4.03	2.99			1.00	1.03		0.98	1.00		2.01	1.02			1.02				
57	Expected	4.00	3.00	2.00			2.00		1.00	1.00		1.00	1.00			1.00	1.00			
	Actual	4.03	2.00	1.99			1.97		1.02	1.00		0.99	0.97			1.00	0.00 <sup>a</sup>			
58	Expected	2.00		2.00			4.00		1.00	2.00			1.00		1.00	1.00	1.00			2.00
	Actual	2.03		2.00			3.97		1.01	1.97			1.02		0.99	0.97	0.00 <sup>a</sup>			2.02
59	Expected			2.00			4.00	1.00		2.00	1.00	1.00	1.00		2.00		1.00			3.00
	Actual			1.97			3.95	1.01		2.00	0.99	1.04	1.00		1.98		0.00 <sup>a</sup>			3.02
60	Expected	1.00		1.00		1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.00		2.00				1.00	2.00
	Actual	1.02		1.00		0.99	2.01	0.98	1.01	2.00	1.03	1.00	1.00		1.99				1.00	2.01
61	Expected	2.00				1.00	2.00	1.00	1.00	1.00		1.00	2.00		2.00	1.00			1.00	2.00
	Actual	1.99				0.97	2.00	1.01	1.03	1.00		1.02	1.97		2.01	1.00			1.02	2.00
62	Expected	2.00					2.00		3.00	1.00	1.00	1.00	1.00		3.00	1.00	1.00	1.00	1.00	1.00
	Actual	2.03					2.00		3.00	0.99	1.02	1.00	1.00		3.03	0.99	0.00 <sup>a</sup>	1.00	1.01	1.01
63	Expected						3.00		4.00	2.00	1.00	1.00			1.00	1.00	2.00			2.00
	Actual						3.01		4.03	2.01	0.99	0.97			1.00	1.00	0.00 <sup>a</sup>			2.01
64	Expected			1.00			3.00		3.00	3.00	1.00				1.00	1.00	1.00			1.00
	Actual			1.02			3.01		3.02	2.97	1.01				0.99	1.02	0.00 <sup>a</sup>			1.01
65	Expected			2.00			1.00		1.00	3.00	1.00	1.00	1.00		3.00	2.00	1.00			
	Actual			2.00			1.00		1.03	3.01	1.00	1.01	0.99		2.97	2.00	0.00 <sup>a</sup>			
66	Expected			2.00	1.00		1.00		4.00	1.00	1.00	1.00	1.00		4.00	1.00				1.00
	Actual			2.03	0.53 <sup>a</sup>		1.00		3.04 <sup>b</sup>	1.02	1.00	1.01	0.99		4.01	1.00				0.54 <sup>b</sup>
67	Expected	1.00			1.00		2.00		4.00	2.00			1.00		2.00	1.00			1.00	3.00
	Actual	1.03			0.55 <sup>a</sup>		2.01		2.97 <sup>b</sup>	2.01			0.97		2.01	1.03			0.99	2.07 <sup>b</sup>
68	Expected	2.00				1.00	1.00		2.00	2.00						1.00			1.00	2.00
	Actual	2.03				1.01	1.00		1.54 <sup>b</sup>	2.01						1.02			1.00	1.48 <sup>b</sup>

<sup>a</sup>Cys and/or Trp were partially or completely destroyed during hydrolysis.

<sup>b</sup>Val-Val, Ile-Ile and/or Val-Ile bonds were completely or partially destroyed during hydrolysis.

**Date:** 30 MAY 2007

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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