

Peptide Array, Influenza Virus B/Florida/4/2006 Hemagglutinin Protein

Catalog No. NR-18972

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Product Description: The 96-peptide array spans the hemagglutinin (HA) protein of the B/Florida/4/2006 strain of influenza virus (GenPept: ACA33493). Peptides are 14- or 17-mers, with 11 amino acid overlaps.

Lot: PF0721-1

Note: The lot numbers of the individual peptides are shown on the vial labels and in Table 1 below.

The following information applies to all peptides:

- Appearance White lyophilized powder
- Mass spectral analysis Correct MW by Electrospray Ionization
- Counter Ion Trifluoroacetate

Peptide-specific information is shown in the two tables below.

| Table 1 | | | | | | | |
|----------|-------|--------------|--------|----------------------------|------------------------|-----------------------------|------------------------------|
| Peptide | Lot # | Date of Mfg. | Length | Sequence | Molecular Weight (amu) | Purity by HPLC ^a | Peptide Content ^b |
| 1 of 96 | A0506 | 06/29/2010 | 17 | 1-MKAIIVLLMVVTSNADR-17 | 1873.60 | pass by MS | 83.1% |
| 2 of 96 | A0604 | 07/08/2010 | 17 | 7-LLMVVTSNADRICTGIT-23 | 1806.93 | 80.6% | 80.9% |
| 3 of 96 | A2044 | 05/25/2010 | 17 | 13-SNADRICTGITSSNSPH-29 | 1759.73 | 95.0% | 71.1% |
| 4 of 96 | A2069 | 05/25/2010 | 17 | 19-CTGITSSNSPHVVKAT-35 | 1702.53 | 95.5% | 69.5% |
| 5 of 96 | A2070 | 05/25/2010 | 17 | 25-SNSPHVVKATQGEVNV-41 | 1766.73 | 95.6% | 64.3% |
| 6 of 96 | A2028 | 05/25/2010 | 17 | 31-VKTATQGEVNVTVIPL-47 | 1725.73 | 96.2% | 69.8% |
| 7 of 96 | A2029 | 05/25/2010 | 17 | 37-GEVNVTVIPLTTTPTK-53 | 1726.53 | 99.1% | 68.5% |
| 8 of 96 | A2030 | 05/25/2010 | 17 | 43-GVIPLTTTPTKSYFANL-59 | 1822.53 | 97.4% | 73.2% |
| 9 of 96 | A2031 | 05/25/2010 | 17 | 49-TTPTKSYFANLKGTRTR-65 | 1942.67 | 95.7% | 71.0% |
| 10 of 96 | A2032 | 05/25/2010 | 17 | 55-YFANLKGTRTRGKLCPD-71 | 1940.47 | 96.8% | 72.1% |
| 11 of 96 | A2045 | 05/27/2010 | 17 | 61-GTRTRGKLCPDCLNCTD-77 | 1852.60 | 95.9% | 76.9% |
| 12 of 96 | A1183 | 06/14/2010 | 17 | 67-KLCPDCLNCTDLVALG-83 | 1793.60 | 98.2% | 76.6% |
| 13 of 96 | A2033 | 05/26/2010 | 17 | 73-LNCTDLVALGRPMCVCV-89 | 1776.67 | 95.7% | 70.9% |
| 14 of 96 | A2034 | 05/26/2010 | 17 | 79-DVALGRPMCVCVTTPSAK-95 | 1702.67 | 96.0% | 72.4% |
| 15 of 96 | A0507 | 06/29/2010 | 17 | 85-PMCVGTTPSAKASILHE-101 | 1741.60 | 93.9% | 78.4% |
| 16 of 96 | A2026 | 05/24/2010 | 17 | 91-TPSAKASILHEVKPVTS-107 | 1765.53 | 95.4% | 73.1% |
| 17 of 96 | A0389 | 06/14/2010 | 17 | 97-SILHEVKPVTSGCFFPIM-113 | 1858.07 | 96.5% | 78.6% |
| 18 of 96 | A2001 | 05/22/2010 | 17 | 103-KPVTSGCFPIHDRTKI-119 | 1930.60 | 99.1% | 74.0% |
| 19 of 96 | A2046 | 05/27/2010 | 17 | 109-CFPIHDRTKIRQLPNL-125 | 2084.26 | 97.2% | 71.7% |
| 20 of 96 | A1128 | 05/31/2010 | 17 | 115-DRTKIRQLPNLLRGYEN-131 | 2085.00 | 98.8% | 77.2% |
| 21 of 96 | A1208 | 06/19/2010 | 17 | 121-QLPNLLRGYENIRLSTQ-137 | 2016.00 | 95.1% | 81.8% |
| 22 of 96 | A2002 | 05/22/2010 | 17 | 127-RGYENIRLSTQNVIDAE-143 | 1978.93 | 95.3% | 70.0% |
| 23 of 96 | A2068 | 05/26/2010 | 17 | 133-RLSTQNVIDAEKAPGGP-149 | 1752.53 | 97.1% | 83.0% |
| 24 of 96 | A2003 | 05/22/2010 | 17 | 139-VIDAEKAPGGPYRLGTS-155 | 1731.47 | 99.0% | 84.0% |
| 25 of 96 | A2027 | 05/24/2010 | 17 | 145-APGGPYRLGTSGSCPNA-161 | 1605.00 | 95.6% | 72.9% |
| 26 of 96 | A2036 | 05/26/2010 | 17 | 151-RLGTSGSCP NATSKSGF-167 | 1669.67 | 96.0% | 71.0% |

Table 1

| Peptide | Lot # | Date of Mfg. | Length | Sequence | Molecular Weight (amu) | Purity by HPLC ^a | Peptide Content ^b |
|----------|-------|--------------|--------|---------------------------|------------------------|-----------------------------|------------------------------|
| 27 of 96 | A0508 | 06/29/2010 | 17 | 157-SCPNATSKSGFFATMAW-173 | 1805.53 | 95.3% | 84.1% |
| 28 of 96 | A1186 | 06/14/2010 | 17 | 163-SKSGFFATMAWAVPKDN-179 | 1857.60 | 96.2% | 85.8% |
| 29 of 96 | A1130 | 05/31/2010 | 17 | 169-ATMAWAVPKDNNKNATN-185 | 1844.80 | 98.3% | 78.4% |
| 30 of 96 | A2037 | 05/26/2010 | 17 | 175-VPKDNNKNATNPLTVEV-191 | 1853.33 | 98.5% | 72.5% |
| 31 of 96 | A2038 | 05/26/2010 | 17 | 181-KNATNPLTVEVPYICTE-197 | 1891.87 | 95.4% | 74.1% |
| 32 of 96 | A2004 | 05/22/2010 | 17 | 187-LTVEVPYICTEGEDQIT-203 | 1910.47 | 99.1% | 73.0% |
| 33 of 96 | A0910 | 08/12/2010 | 17 | 193-YICTEGEDQITVWGFHS-209 | 1984.27 | 94.7% | 73.8% |
| 34 of 96 | A0390 | 06/14/2010 | 17 | 199-EDQITVWGFHSDDKTQM-215 | 2039.34 | 97.0% | 73.9% |
| 35 of 96 | A2005 | 05/22/2010 | 17 | 205-WGFHSDDKTQMKNLYGD-221 | 2045.46 | 97.1% | 76.5% |
| 36 of 96 | A2039 | 05/26/2010 | 17 | 211-DKTQMKNLYGDSNPQKF-227 | 2013.74 | 95.5% | 72.8% |
| 37 of 96 | A1102 | 05/26/2010 | 17 | 217-NLYGDSNPQKFTSSANG-233 | 1798.00 | 97.5% | 73.2% |
| 38 of 96 | A2066 | 05/27/2010 | 17 | 223-NPQKFTSSANGVTTHYV-239 | 1851.60 | 95.2% | 72.4% |
| 39 of 96 | A2040 | 05/26/2010 | 17 | 229-SSANGVTTHYVSQIGSF-245 | 1753.47 | 97.7% | 71.9% |
| 40 of 96 | A2006 | 05/22/2010 | 17 | 235-TTHYVSQIGSFDPQTED-251 | 1925.40 | 95.5% | 73.0% |
| 41 of 96 | A2071 | 06/03/2010 | 17 | 241-QIGSFDPQTEGGPLQS-257 | 1774.53 | 96.8% | 80.2% |
| 42 of 96 | A2007 | 05/22/2010 | 17 | 247-DQTEGGPLQSGRIVVD-263 | 1787.33 | 99.2% | 79.9% |
| 43 of 96 | A0510 | 06/29/2010 | 17 | 253-GLPQSGRIVVDYMMQKP-269 | 1919.47 | 96.4% | 72.6% |
| 44 of 96 | A2008 | 05/22/2010 | 17 | 259-RIVVDYMMQKPKGTGTI-275 | 1937.80 | 98.9% | 71.4% |
| 45 of 96 | A1191 | 06/14/2010 | 17 | 265-MMQKPKGTGTIVYQRGV-281 | 1894.80 | 97.4% | 86.5% |
| 46 of 96 | A2041 | 05/26/2010 | 17 | 271-KTGTIVYQRGVLLPQKV-287 | 1989.33 | 93.3% | 71.0% |
| 47 of 96 | A2009 | 05/22/2010 | 17 | 277-YQRGVLLPQKVWCASGR-293 | 1961.73 | 96.6% | 73.3% |
| 48 of 96 | A2090 | 06/21/2010 | 17 | 283-LPQKVWCASGRSKVIK-299 | 1857.60 | 98.3% | 71.0% |
| 49 of 96 | A2010 | 05/22/2010 | 17 | 289-CASGRSKVIKGSPLIG-305 | 1686.53 | 92.8% | 73.9% |
| 50 of 96 | A1193 | 06/14/2010 | 17 | 295-KVIKGSPLIGEADCLH-311 | 1793.20 | 95.5% | 82.8% |
| 51 of 96 | A2011 | 05/22/2010 | 17 | 301-LPLIGEADCLHEKYGGL-317 | 1828.20 | 99.4% | 77.2% |
| 52 of 96 | A2012 | 05/22/2010 | 17 | 307-ADCLHEKYGGLNKSOPY-323 | 1923.47 | 95.4% | 69.4% |
| 53 of 96 | A2013 | 05/22/2010 | 17 | 313-KYGGLNKSOPYTGEHA-329 | 1913.80 | 95.6% | 75.0% |
| 54 of 96 | A2065 | 05/27/2010 | 17 | 319-KSKPYTGEHAKAIGNC-335 | 1865.00 | 97.3% | 71.3% |
| 55 of 96 | A2014 | 05/22/2010 | 17 | 325-TGEHAKAIGNCPIWVKT-341 | 1825.47 | 97.7% | 73.4% |
| 56 of 96 | A1138 | 06/01/2010 | 17 | 331-AIGNCPIWVKTPLKLAN-347 | 1838.00 | 96.0% | 75.3% |
| 57 of 96 | A0486 | 06/25/2010 | 17 | 337-IWVKTPLKLANGTKYRP-353 | 1984.60 | 97.9% | 72.0% |
| 58 of 96 | A2015 | 05/24/2010 | 17 | 343-LKLANGTKYRPPAKLLK-359 | 1911.80 | 98.2% | 71.0% |
| 59 of 96 | A1195 | 06/14/2010 | 17 | 349-TKYRPPAKLLKERGFFG-365 | 2008.80 | 97.9% | 83.1% |
| 60 of 96 | A2016 | 05/22/2010 | 17 | 355-AKLLKERGFFGAIAGFL-371 | 1838.80 | 99.3% | 76.1% |
| 61 of 96 | A0487 | 06/25/2010 | 17 | 361-RGFFGAIAGFLEGGWEG-377 | 1770.47 | pass by MS | 77.9% |
| 62 of 96 | A0631 | 07/13/2010 | 17 | 367-IAGFLEGGWEGMIAGWH-383 | 1830.87 | 98.7% | 81.0% |
| 63 of 96 | A2017 | 05/22/2010 | 17 | 373-GGWEGMIAGWHGYTSHG-389 | 1803.40 | 96.6% | 77.3% |
| 64 of 96 | A2042 | 05/26/2010 | 17 | 379-IAGWHGYTSHGAGHVAV-395 | 1718.73 | 95.7% | 76.4% |
| 65 of 96 | A2097 | 07/13/2010 | 17 | 385-YTSHGAGHVAVAADLKS-401 | 1683.40 | 99.2% | 75.1% |
| 66 of 96 | A1199 | 06/14/2010 | 17 | 391-HGVAVAADLKSTQEAIN-407 | 1723.50 | 95.1% | 82.6% |
| 67 of 96 | A0672 | 07/15/2010 | 17 | 397-ADLKSTQEAINKITKNL-413 | 1886.93 | 90.1% | 84.0% |
| 68 of 96 | A2018 | 05/22/2010 | 17 | 403-QEAINKITKNLNSLSEL-419 | 1913.74 | 96.5% | 85.0% |
| 69 of 96 | A1116 | 05/27/2010 | 17 | 409-ITKNLNSLSELEVKNLQ-425 | 1942.2 | 99.2% | 72.5% |
| 70 of 96 | A0391 | 06/14/2010 | 17 | 415-SLSELEVKNLQRLSGAM-431 | 1874.73 | 93.6% | 77.8% |

| Peptide | Lot # | Date of Mfg. | Length | Sequence | Molecular Weight (amu) | Purity by HPLC ^a | Peptide Content ^b |
|----------|-------|--------------|--------|---------------------------|------------------------|-----------------------------|------------------------------|
| 71 of 96 | A2043 | 05/26/2010 | 17 | 421-VKNLQRLSGAMDELHNE-437 | 1951.73 | 98.1% | 83.8% |
| 72 of 96 | A2019 | 05/22/2010 | 17 | 427-LSGAMDELHNEILELDE-443 | 1928.27 | 95.9% | 77.3% |
| 73 of 96 | A2020 | 05/22/2010 | 17 | 433-ELHNEILELDEKVDLLR-449 | 2082.80 | 99.3% | 79.5% |
| 74 of 96 | A2021 | 05/22/2010 | 17 | 439-LELDEKVDLLRADTISS-455 | 1919.33 | 99.1% | 81.3% |
| 75 of 96 | A2072 | 06/04/2010 | 17 | 445-VDDLADTISSQIELAV-461 | 1844.87 | 95.4% | 80.1% |
| 76 of 96 | A0509 | 06/29/2010 | 17 | 451-DTISSQIELAVLLSNEG-467 | 1787.73 | 83.7% | 74.5% |
| 77 of 96 | A2092 | 07/21/2010 | 17 | 457-IELAVLLSNEGIINSED-473 | 1828.6 | pass by MS | 78.9% |
| 78 of 96 | A1180 | 06/10/2010 | 17 | 463-LSNEGIINSEDEHLLAL-479 | 1867.53 | 97.3% | 76.0% |
| 79 of 96 | A2047 | 05/27/2010 | 17 | 469-INSEDEHLLALERKLLK-485 | 2036.80 | 99.3% | 84.6% |
| 80 of 96 | A2022 | 05/22/2010 | 17 | 475-HLLALERKLLKMLGPSA-491 | 1905.53 | 98.0% | 83.5% |
| 81 of 96 | A0488 | 06/25/2010 | 17 | 481-RKLLKMLGPSAVEIGNG-497 | 1797.40 | 99.3% | 81.8% |
| 82 of 96 | A0821 | 08/03/2010 | 17 | 487-LGPSAVEIGNGFETKH-503 | 1759.13 | 97.5% | 85.4% |
| 83 of 96 | A2023 | 05/22/2010 | 17 | 493-EIGNGFETKHKCNQTC-509 | 1912.80 | 97.2% | 81.9% |
| 84 of 96 | A2024 | 05/22/2010 | 17 | 499-FETKHKCNQTCLDRIA-515 | 1978.73 | 96.2% | 76.8% |
| 85 of 96 | A0617 | 07/08/2010 | 17 | 505-CNQTCLDRIAAGTFNAG-521 | 1753.93 | 84.3% | 72.6% |
| 86 of 96 | A0520 | 06/30/2010 | 17 | 511-DRIAAGTFNAGEFSLPT-527 | 1766.87 | 94.3% | 68.6% |
| 87 of 96 | A1211 | 06/18/2010 | 17 | 517-TFNAGEFSLPTFDSLNI-533 | 1873.20 | 99.3% | 79.7% |
| 88 of 96 | A0814 | 08/02/2010 | 17 | 523-FSLPTFDSLNITAASLN-539 | 1811.13 | 95.3% | 75.9% |
| 89 of 96 | A1156 | 06/09/2010 | 17 | 529-DSLNITAASLNDDGLDN-545 | 1747.20 | 99.0% | 72.0% |
| 90 of 96 | A2025 | 05/22/2010 | 17 | 535-AASLNDDGLDNHTILLY-551 | 1845.80 | 96.9% | 81.7% |
| 91 of 96 | A0551 | 07/06/2010 | 17 | 541-DGLDNHTILLYSTAAS-557 | 1853.53 | pass by MS | 82.4% |
| 92 of 96 | A0587 | 07/08/2010 | 17 | 547-TILLYSTAASLAVTL-563 | 1786.47 | pass by MS | 85.3% |
| 93 of 96 | A0588 | 07/08/2010 | 17 | 553-STAASLAVTLMALIFI-569 | 1709.13 | pass by MS | 72.9% |
| 94 of 96 | A0589 | 07/08/2010 | 17 | 559-LAVTLMALIFIVMVS-575 | 1940.40 | pass by MS | 84.9% |
| 95 of 96 | A0642 | 07/14/2010 | 17 | 565-LAIFIVMVS RDNVSCS-581 | 1916.27 | pass by MS | 74.4% |
| 96 of 96 | A0619 | 07/13/2010 | 14 | 571-YMVS RDNVSCSICL-584 | 1589.40 | pass by MS | 84.5% |

^a% full-length
^bRemainder is salt and water

| 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 96 | Expected | 2.00 | 1.00 | 2.00 | | | | | 2.00 | 2.00 | 1.00 | 2.00 | | | 1.00 | 1.00 | | | 3.00 |
| | Actual | 2.11 | 0.99 | 2.35 | | | | | 2.03 | 2.10 | 0.90 | 1.63 | | | 1.18 | 1.05 | | | 2.67 ^b |
| 2 of 96 | Expected | 1.00 | 1.00 | 2.00 | 1.00 | | 1.00 | | 2.00 | 2.00 | | 1.00 | | | 1.00 | 3.00 | | | 2.00 |
| | Actual | 1.05 | 0.88 | 2.25 | 0.00 ^c | | 1.18 | | 1.97 | 2.13 | | 0.84 | | | 0.84 | 2.76 | | | 2.08 |
| 3 of 96 | Expected | 1.00 | 1.00 | 3.00 | 1.00 | | 1.00 | 1.00 | 2.00 | | | | | 1.00 | 4.00 | 2.00 | | | |
| | Actual | 1.02 | 0.83 | 3.43 | 0.00 ^c | | 0.84 | 0.95 | 2.08 | | | | | 0.92 | 3.56 | 2.37 | | | |
| 4 of 96 | Expected | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | | 1.00 | | | 1.00 | 3.00 | 4.00 | | | 2.00 |
| | Actual | 1.05 | | 1.15 | 0.00 ^c | | 0.90 | 0.91 | 1.10 | | 0.98 | | | 0.99 | 2.84 | 4.46 | | | 1.62 ^b |
| 5 of 96 | Expected | 1.00 | | 2.00 | | 2.00 | 1.00 | 1.00 | | | 1.00 | | | 1.00 | 2.00 | 2.00 | | | 4.00 |
| | Actual | 0.88 | | 2.38 | | 2.36 | 0.82 | 1.17 | | | 1.02 | | | 0.88 | 1.71 | 2.16 | | | 3.61 ^b |
| 6 of 96 | Expected | 1.00 | | 1.00 | | 2.00 | 2.00 | | 1.00 | 1.00 | 1.00 | | | 1.00 | | 3.00 | | | 4.00 |
| | Actual | 1.01 | | 1.17 | | 2.27 | 1.75 | | 0.84 ^b | 0.95 | 0.84 | | | 0.94 | | 3.31 | | | 3.92 ^b |

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) |
|----------|----------|---------|---------|-----------|-------------------|-----------|---------|---------|--------------------|---------|---------|---------|---------|---------|---------|---------|-------------------|-------------------|-------------------|
| 7 of 96 | Expected | | | 1.00 | | 1.00 | 2.00 | | 1.00 | 1.00 | 1.00 | | | 2.00 | | 5.00 | | | 3.00 |
| | Actual | | | 1.18 | | 1.15 | 1.71 | | 0.86 ^b | 0.97 | 0.95 | | | 1.87 | | 5.44 | | | 2.87 ^b |
| 8 of 96 | Expected | 1.00 | | 1.00 | | | 1.00 | | 1.00 | 2.00 | 1.00 | | 1.00 | 2.00 | 1.00 | 4.00 | | 1.00 | 1.00 |
| | Actual | 1.01 | | 1.19 | | | 0.86 | | 1.16 ^b | 2.03 | 0.95 | | 0.99 | 1.88 | 0.89 | 4.39 | | 0.84 | 0.80 ^b |
| 9 of 96 | Expected | 1.00 | 2.00 | 1.00 | | | 1.00 | | | 1.00 | 2.00 | | 1.00 | 1.00 | 1.00 | 5.00 | | 1.00 | |
| | Actual | 1.05 | 1.80 | 1.15 | | | 0.86 | | | 1.13 | 1.94 | | 0.98 | 0.93 | 0.91 | 5.41 | | 0.84 | |
| 10 of 96 | Expected | 1.00 | 2.00 | 2.00 | 1.00 | | 2.00 | | | 2.00 | 2.00 | | 1.00 | 1.00 | | 2.00 | | 1.00 | |
| | Actual | 1.03 | 1.78 | 2.34 | 0.00 ^c | | 1.70 | | | 2.14 | 1.92 | | 0.96 | 0.94 | | 2.34 | | 0.85 | |
| 11 of 96 | Expected | | 2.00 | 3.00 | 3.00 | | 2.00 | | | 2.00 | 1.00 | | | 1.00 | | 3.00 | | | |
| | Actual | | 1.75 | 3.43 | 0.00 ^c | | 1.68 | | | 2.06 | 0.92 | | | 0.92 | | 3.24 | | | |
| 12 of 96 | Expected | 1.00 | | 4.00 | 3.00 | | 1.00 | | | 4.00 | 1.00 | | | 1.00 | | 1.00 | | | 1.00 |
| | Actual | 0.95 | | 4.41 | 0.00 ^c | | 1.01 | | | 3.70 | 0.83 | | | 0.83 | | 1.18 | | | 1.09 |
| 13 of 96 | Expected | 1.00 | 1.00 | 3.00 | 2.00 | | 2.00 | | | 3.00 | | 1.00 | | 1.00 | | 1.00 | | | 2.00 |
| | Actual | 0.99 | 0.82 | 3.38 | 0.00 ^c | | 1.71 | | | 2.96 | | 0.84 | | 0.91 | | 1.19 | | | 2.21 |
| 14 of 96 | Expected | 2.00 | 1.00 | 1.00 | 1.00 | | 2.00 | | | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | | | 2.00 |
| | Actual | 2.00 | 0.84 | 1.10 | 0.00 ^c | | 1.65 | | | 1.09 | 0.86 | 0.91 | | 1.90 | 1.11 | 2.31 | | | 2.22 |
| 15 of 96 | Expected | 2.00 | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 2.00 | 2.00 | 2.00 | | | 1.00 |
| | Actual | 2.11 | | | 0.00 ^c | 1.16 | 1.02 | 1.06 | 0.97 | 1.01 | 1.08 | 0.93 | | 2.16 | 1.75 | 1.61 | | | 1.14 |
| 16 of 96 | Expected | 2.00 | | | | 1.00 | | 1.00 | 1.00 | 2.00 | | | | 2.00 | 3.00 | 2.00 | | | 2.00 |
| | Actual | 2.13 | | | | 1.06 | | 0.87 | 0.96 | 1.06 | 1.93 | | | 2.01 | 2.99 | 1.88 | | | 2.11 |
| 17 of 96 | Expected | | | | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 1.00 | | | 2.00 |
| | Actual | | | | 0.00 ^c | 1.11 | 0.94 | 0.88 | 2.01 | 1.17 | 0.95 | 0.96 | 1.00 | 2.02 | 1.94 | 0.92 | | | 2.11 |
| 18 of 96 | Expected | | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 2.00 | | | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 2.00 | | 1.00 |
| | Actual | | 0.89 | 1.09 | 0.00 ^c | | 0.96 | 0.91 | 2.04 | | | 2.00 | 0.80 | 1.00 | 2.05 | 1.10 | 1.97 | | 1.19 |
| 19 of 96 | Expected | | 2.00 | 2.00 | 1.00 | 1.00 | | 1.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 2.00 | | 1.00 | | | |
| | Actual | | 1.75 | 2.19 | 0.00 ^c | 1.15 | | 0.85 | 1.97 | 2.25 | 0.95 | 0.94 | 0.97 | 2.02 | | 0.95 | | | |
| 20 of 96 | Expected | | 3.00 | 3.00 | | 2.00 | 1.00 | | 1.00 | 3.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| | Actual | | 2.60 | 3.32 | | 2.17 | 0.88 | | 0.94 | 3.27 | 0.91 | | | 0.91 | | 1.20 | | 0.82 | |
| 21 of 96 | Expected | | 2.00 | 2.00 | | 3.00 | 1.00 | | 1.00 | 4.00 | | | | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| | Actual | | 1.69 | 2.25 | | 3.26 | 0.85 | | 1.05 | 4.19 | | | | 0.91 | 1.01 | 0.84 | | 0.95 | |
| 22 of 96 | Expected | 1.00 | 2.00 | 3.00 | | 3.00 | 1.00 | | 2.00 | 1.00 | | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Actual | 1.02 | 1.66 | 3.45 | | 3.40 | 0.86 | | 1.78 ^b | 1.16 | | | | | 0.89 | 1.06 | | 0.83 | 0.90 ^b |
| 23 of 96 | Expected | 2.00 | 1.00 | 2.00 | | 2.00 | 2.00 | | 1.00 | 1.00 | 1.00 | | | 2.00 | 1.00 | 1.00 | | | 1.00 |
| | Actual | 2.04 | 0.87 | 2.36 | | 2.35 | 1.79 | | 0.89 ^b | 0.88 | 0.97 | | | 1.93 | 0.96 | 1.14 | | | 0.82 ^b |
| 24 of 96 | Expected | 2.00 | 1.00 | 1.00 | | 1.00 | 3.00 | | 1.00 | 1.00 | 1.00 | | | 2.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| | Actual | 2.11 | 0.89 | 1.04 | | 1.16 | 2.92 | | 0.821 ^b | 1.13 | 1.00 | | | 2.11 | 1.08 | 1.00 | | 0.84 | 0.90 ^b |
| 25 of 96 | Expected | 2.00 | 1.00 | 1.00 | 1.00 | | 4.00 | | | 1.00 | | | | 3.00 | 2.00 | 1.00 | | 1.00 | 1.00 |
| | Actual | 2.13 | 0.88 | 1.06 | 0.00 ^c | | 3.92 | | | 1.19 | | | | 3.10 | 1.73 | 1.04 | | 0.96 | |
| 26 of 96 | Expected | 1.00 | 1.00 | 1.00 | 1.00 | | 3.00 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 4.00 | 2.00 | | | |
| | Actual | 1.06 | 0.87 | 1.14 | 0.00 ^c | | 2.87 | | | 1.08 | 0.96 | | 1.04 | 1.09 | 3.67 | 2.21 | | | |
| 27 of 96 | Expected | 3.00 | | 1.00 | 1.00 | | 1.00 | | | | | 1.00 | 1.00 | 2.00 | 1.00 | 3.00 | 2.00 | 1.00 | |
| | Actual | 3.19 | | 1.05 | 0.00 ^c | | 0.80 | | | | | 0.97 | 0.95 | 2.14 | 1.01 | 2.89 | 1.98 | 0.00 ^a | |
| 28 of 96 | Expected | 3.00 | | 2.00 | | | 1.00 | | | | | 2.00 | 1.00 | 2.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| | Actual | 3.00 | | 2.39 | | | 0.86 | | | | | 2.16 | 0.88 | 1.95 | 0.94 | 1.77 | 0.86 | 0.00 ^a | 1.18 |
| 29 of 96 | Expected | 4.00 | | 5.00 | | | | | | | | 2.00 | 1.00 | | 1.00 | 2.00 | 1.00 | | 1.00 |
| | Actual | 3.70 | | 5.47 | | | | | | | | 1.74 | 1.06 | | 0.80 | 2.22 | 0.00 ^a | | 1.01 |
| 30 of 96 | Expected | 1.00 | | 5.00 | | 1.00 | | | | 1.00 | 2.00 | | | 2.00 | | 2.00 | | | 3.00 |
| | Actual | 0.90 | | 5.28 | | 1.11 | | | | 0.96 | 1.75 | | | 1.66 | | 2.17 | | | 3.15 |
| 31 of 96 | Expected | 1.00 | | 2.00 | 1.00 | 2.00 | | | 1.00 | 1.00 | 1.00 | | | 2.00 | | 3.00 | | 1.00 | 2.00 |
| | Actual | 0.93 | | 2.30 | 0.00 ^c | 2.32 | | | 0.89 | 1.00 | 0.92 | | | 1.72 | | 2.96 | | 0.82 | 2.15 |
| 32 of 96 | Expected | | | 1.00 | 1.00 | 4.00 | 1.00 | | 2.00 | 1.00 | | | | 1.00 | | 3.00 | | 1.00 | 2.00 |
| | Actual | | | 1.16 | 0.00 ^c | 4.40 | 0.88 | | 1.82 | 1.15 | | | | 0.96 | | 2.72 | | 0.91 | 1.99 |
| 33 of 96 | Expected | | | 1.00 | 1.00 | 3.00 | 2.00 | 1.00 | 2.00 | | | | 1.00 | | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| | Actual | | | 1.19 | 0.00 ^c | 3.41 | 1.83 | 0.88 | 1.88 | | | | 0.95 | | 1.19 | 1.93 | 0.00 ^a | 0.82 | 0.92 |
| 34 of 96 | Expected | | | 3.00 | | 3.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | | 1.00 | 2.00 | 1.00 | | 1.00 |
| | Actual | | | 3.28 | | 3.32 | 0.87 | 0.83 | 0.96 | | 0.89 | 0.89 | 0.92 | | 1.11 | 1.83 | 0.00 ^a | | 1.09 |
| 35 of 96 | Expected | | | 4.00 | | 1.00 | 2.00 | 1.00 | | 1.00 | 2.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | |
| | Actual | | | 4.46 | | 1.10 | 1.81 | 0.86 | | 1.15 | 1.90 | 0.81 | 0.94 | | 1.06 | 1.07 | 0.00 ^a | 0.83 | |

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) |
|----------|----------|------------|------------|--------------|-------------------|--------------|------------|------------|-------------------|------------|------------|------------|------------|------------|------------|------------|-------------------|------------|-------------------|
| 36 of 96 | Expected | | | 4.00 | | 2.00 | 1.00 | | | 1.00 | 3.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | |
| | Actual | | | 4.25 | | 2.38 | 0.89 | | | 1.02 | 2.78 | 0.83 | 0.95 | 0.91 | 0.97 | 1.19 | | 0.83 | |
| 37 of 96 | Expected | 1.00 | | 4.00 | | 1.00 | 2.00 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 3.00 | 1.00 | | 1.00 | |
| | Actual | 0.93 | | 4.37 | | 1.20 | 1.73 | | | 1.15 | 1.08 | | 0.93 | 0.98 | 2.71 | 0.99 | | 0.94 | |
| 38 of 96 | Expected | 1.00 | | 2.00 | | 1.00 | 1.00 | 1.00 | | | 1.00 | | 1.00 | 1.00 | 2.00 | 3.00 | | 1.00 | 2.00 |
| | Actual | 0.99 | | 2.25 | | 1.11 | 0.84 | 0.91 | | | 1.05 | | 0.91 | 0.88 | 1.70 | 3.32 | | 0.83 | 2.20 |
| 39 of 96 | Expected | 1.00 | | 1.00 | | 1.00 | 2.00 | 1.00 | 1.00 | | | | 1.00 | | 4.00 | 2.00 | | 1.00 | 2.00 |
| | Actual | 0.92 | | 1.17 | | 1.14 | 1.75 | 1.04 | 0.82 | | | | 0.91 | | 3.94 | 2.35 | | 0.81 | 2.14 |
| 40 of 96 | Expected | | | 2.00 | | 3.00 | 1.00 | 1.00 | 1.00 | | | | 1.00 | 1.00 | 2.00 | 3.00 | | 1.00 | 1.00 |
| | Actual | | | 2.33 | | 3.46 | 0.93 | 0.86 | 0.99 | | | | 0.97 | 0.98 | 1.84 | 2.85 | | 0.81 | 0.98 |
| 41 of 96 | Expected | | | 2.00 | | 4.00 | 3.00 | | 1.00 | 1.00 | | | 1.00 | 2.00 | 2.00 | 1.00 | | | |
| | Actual | | | 2.12 | | 4.33 | 2.79 | | 0.95 | 1.11 | | | 0.95 | 1.96 | 1.80 | 0.99 | | | |
| 42 of 96 | Expected | | 1.00 | 3.00 | | 3.00 | 3.00 | | 1.00 | 1.00 | | | | 1.00 | 1.00 | 1.00 | | | 2.00 |
| | Actual | | 0.87 | 3.39 | | 3.33 | 2.78 | | 0.85 ^b | 1.12 | | | | 0.98 | 0.89 | 1.13 | | | 1.64 ^b |
| 43 of 96 | Expected | | 1.00 | 1.00 | | 2.00 | 2.00 | | 1.00 | 1.00 | 1.00 | 2.00 | | 2.00 | 1.00 | | | 1.00 | 2.00 |
| | Actual | | 1.05 | 0.99 | | 2.26 | 1.88 | | 1.03 | 1.15 | 1.02 | 1.83 | | 1.97 | 1.00 | | | 0.83 | 1.98 ^b |
| 44 of 96 | Expected | | 1.00 | 1.00 | | 1.00 | 2.00 | | 2.00 | | 2.00 | 2.00 | | 1.00 | | 2.00 | | 1.00 | 2.00 |
| | Actual | | 0.96 | 1.06 | | 1.12 | 2.06 | | 1.83 ^b | | 2.20 | 1.75 | | 1.10 | | 2.07 | | 0.81 | 2.03 |
| 45 of 96 | Expected | | 1.00 | | | 2.00 | 3.00 | | 1.00 | | 2.00 | 2.00 | | 1.00 | | 2.00 | | 1.00 | 2.00 |
| | Actual | | 0.93 | | | 2.32 | 2.73 | | 0.82 ^b | | 2.19 | 1.88 | | 0.97 | | 2.18 | | 0.86 | 2.12 |
| 46 of 96 | Expected | | 1.00 | | | 2.00 | 2.00 | | 1.00 | 2.00 | 2.00 | | | 1.00 | | 2.00 | | 1.00 | 3.00 |
| | Actual | | 0.86 | | | 2.31 | 1.76 | | 0.80 ^b | 2.13 | 1.97 | | | 0.97 | | 2.25 | | 0.84 | 3.10 |
| 47 of 96 | Expected | 1.00 | 2.00 | | 1.00 | 2.00 | 2.00 | | | 2.00 | 1.00 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 2.00 |
| | Actual | 1.09 | 1.89 | | 0.00 ^c | 2.21 | 2.02 | | | 1.61 | 1.05 | | | 1.06 | 1.11 | | 0.00 ^a | 1.01 | 1.95 |
| 48 of 96 | Expected | 1.00 | 1.00 | | 1.00 | 1.00 | 2.00 | | 1.00 | 1.00 | 3.00 | | | 1.00 | 2.00 | | 1.00 | | 2.00 |
| | Actual | 1.05 | 0.96 | | 0.00 ^c | 1.09 | 1.87 | | 0.81 ^b | 1.14 | 3.14 | | | 0.99 | 1.93 | | 0.00 ^a | | 2.03 |
| 49 of 96 | Expected | 1.00 | 1.00 | | 1.00 | | 3.00 | | 2.00 | 2.00 | 2.00 | | | 1.00 | 3.00 | | | | 1.00 |
| | Actual | 1.04 | 0.88 | | 0.00 ^c | | 3.32 | | 1.63 ^b | 2.18 | 1.96 | | | 0.99 | 3.10 | | | | 0.89 ^b |
| 50 of 96 | Expected | 1.00 | | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 2.00 | 3.00 | 2.00 | | | 1.00 | 1.00 | | | | 1.00 |
| | Actual | 1.03 | | 1.20 | 0.00 ^c | 1.14 | 1.80 | 0.97 | 1.79 ^b | 3.23 | 2.02 | | | 0.97 | 0.99 | | | | 0.85 ^b |
| 51 of 96 | Expected | 1.00 | | 1.00 | 1.00 | 2.00 | 3.00 | 1.00 | 1.00 | 4.00 | 1.00 | | | 1.00 | | | | 1.00 | |
| | Actual | 0.97 | | 1.02 | 0.00 ^c | 2.39 | 2.77 | 0.88 | 0.94 | 4.15 | 0.99 | | | 0.95 | | | | 0.94 | |
| 52 of 96 | Expected | 1.00 | | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | | 2.00 | 3.00 | | | 1.00 | 1.00 | | | | 2.00 |
| | Actual | 0.94 | | 2.34 | 0.00 ^c | 1.11 | 1.83 | 0.87 | | 2.16 | 2.90 | | | 0.97 | 0.98 | | | | 1.89 |
| 53 of 96 | Expected | 1.00 | | 1.00 | | 1.00 | 3.00 | 1.00 | | 1.00 | 3.00 | | | 1.00 | 1.00 | 1.00 | | | 3.00 |
| | Actual | 1.02 | | 1.10 | | 1.18 | 2.89 | 0.90 | | 1.09 | 3.20 | | | 1.00 | 0.88 | 1.01 | | | 2.72 |
| 54 of 96 | Expected | 2.00 | | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | | 3.00 | | | 1.00 | 1.00 | 1.00 | | | 2.00 |
| | Actual | 2.10 | | 1.12 | 0.00 ^c | 1.17 | 1.81 | 0.94 | 1.06 | | 2.98 | | | 0.90 | 0.99 | 1.04 | | | 1.89 |
| 55 of 96 | Expected | 2.00 | | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 2.00 | | 2.00 | | | 1.00 | | 2.00 | 1.00 | | 1.00 |
| | Actual | 2.07 | | 1.08 | 0.00 ^c | 1.16 | 1.93 | 0.89 | 1.94 | | 1.93 | | | 1.02 | | 1.96 | 0.00 ^a | | 1.02 |
| 56 of 96 | Expected | 2.00 | | 2.00 | 1.00 | | 1.00 | | 2.00 | 2.00 | 2.00 | | | 2.00 | | 1.00 | 1.00 | | 1.00 |
| | Actual | 1.97 | | 2.32 | 0.00 ^c | | 0.83 | | 2.08 | 2.09 | 1.92 | | | 1.81 | | 0.81 | 0.00 ^a | | 1.16 |
| 57 of 96 | Expected | 1.00 | 1.00 | 1.00 | | | 1.00 | | 1.00 | 2.00 | 3.00 | | | 2.00 | | 2.00 | 1.00 | 1.00 | 1.00 |
| | Actual | 1.04 | 0.89 | 1.16 | | | 0.86 | | 0.96 | 2.19 | 3.22 | | | 1.93 | | 1.64 | 0.00 ^a | 0.93 | 1.17 |
| 58 of 96 | Expected | 2.00 | 1.00 | 1.00 | | | 1.00 | | | 4.00 | 4.00 | | | 2.00 | | 1.00 | | | 1.00 |
| | Actual | 2.01 | 0.87 | 1.17 | | | 0.91 | | | 4.23 | 3.97 | | | 2.02 | | 0.99 | | | 0.83 |
| 59 of 96 | Expected | 1.00 | 2.00 | | | 1.00 | 2.00 | | | 2.00 | 3.00 | | 2.00 | 2.00 | | 1.00 | | | 1.00 |
| | Actual | 1.06 | 1.81 | | | 1.19 | 1.77 | | | 2.01 | 3.40 | | 1.90 | 1.91 | | 1.11 | | | 0.83 |
| 60 of 96 | Expected | 3.00 | 1.00 | | | 1.00 | 3.00 | | 1.00 | 3.00 | 2.00 | | 3.00 | | | | | | |
| | Actual | 3.05 | 0.82 | | | 1.06 | 2.94 | | 1.03 | 3.21 | 1.90 | | 2.99 | | | | | | |
| 61 of 96 | Expected | 2.00 | 1.00 | | | 2.00 | 6.00 | | 1.00 | 1.00 | | | 3.00 | | | | 1.00 | | |
| | Actual | 2.05 | 0.86 | | | 2.31 | 5.52 | | 1.08 | 1.10 | | | 3.08 | | | | 0.00 ^a | | |
| 62 of 96 | Expected | 2.00 | | | | 2.00 | 5.00 | 1.00 | 2.00 | 1.00 | | 1.00 | 1.00 | | | | 2.00 | | |
| | Actual | 2.01 | | | | 2.39 | 4.56 | 1.02 | 2.14 | 1.09 | | 0.83 | 0.96 | | | | 0.00 ^a | | |
| 63 of 96 | Expected | 1.00 | | | | 1.00 | 6.00 | 2.00 | 1.00 | | | 1.00 | | | 1.00 | 1.00 | 2.00 | 1.00 | |
| | Actual | 1.07 | | | | 1.08 | 6.04 | 1.87 | 1.01 | | | 0.88 | | | 1.07 | 0.95 | 0.00 ^a | 1.03 | |
| 64 of 96 | Expected | 3.00 | | | | | 4.00 | 3.00 | 1.00 | | | | | | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 |
| | Actual | 2.86 | | | | | 3.82 | 2.99 | 0.94 | | | | | | 1.16 | 1.17 | 0.00 ^a | 0.84 | 2.23 |

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) |
|----------|----------|---------|---------|-----------|-------------------|-----------|---------|---------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 65 of 96 | Expected | 4.00 | | 1.00 | | | 2.00 | 2.00 | | 1.00 | 1.00 | | | | 2.00 | 1.00 | | 1.00 | 2.00 |
| | Actual | 4.07 | | 1.18 | | | 1.75 | 2.02 | | 1.05 | 1.02 | | | | 1.73 | 1.02 | | 0.83 | 2.34 |
| 66 of 96 | Expected | 4.00 | | 2.00 | | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | | | 1.00 | 1.00 | | | 2.00 |
| | Actual | 3.64 | | 2.26 | | 2.39 | 0.80 | 0.89 | 0.96 | 1.00 | 0.97 | | | | 0.86 | 1.09 | | | 2.12 |
| 67 of 96 | Expected | 2.00 | | 3.00 | | 2.00 | | | 2.00 | 2.00 | 3.00 | | | | 1.00 | 2.00 | | | |
| | Actual | 1.75 | | 3.41 | | 2.32 | | | 1.87 | 1.91 | 3.16 | | | | 0.84 | 1.74 | | | |
| 68 of 96 | Expected | 1.00 | | 3.00 | | 3.00 | | | 2.00 | 3.00 | 2.00 | | | | 2.00 | 1.00 | | | |
| | Actual | 0.91 | | 3.33 | | 3.37 | | | 1.78 | 3.03 | 1.87 | | | | 1.83 | 0.88 | | | |
| 69 of 96 | Expected | | | 3.00 | | 3.00 | | | 1.00 | 4.00 | 2.00 | | | | 2.00 | 1.00 | | | 1.00 |
| | Actual | | | 3.30 | | 3.43 | | | 0.83 | 3.72 | 1.92 | | | | 1.72 | 1.05 | | | 1.02 |
| 70 of 96 | Expected | 1.00 | 1.00 | 1.00 | | 3.00 | 1.00 | | | 4.00 | 1.00 | 1.00 | | | 3.00 | | | | 1.00 |
| | Actual | 1.02 | 0.91 | 1.08 | | 3.18 | 0.98 | | | 4.38 | 0.89 | 0.82 | | | 2.92 | | | | 0.81 |
| 71 of 96 | Expected | 1.00 | 1.00 | 3.00 | | 3.00 | 1.00 | 1.00 | | 3.00 | 1.00 | 1.00 | | | 1.00 | | | | 1.00 |
| | Actual | 0.97 | 0.86 | 3.44 | | 3.43 | 0.83 | 0.89 | | 3.03 | 0.85 | 0.81 | | | 1.00 | | | | 0.89 |
| 72 of 96 | Expected | 1.00 | | 3.00 | | 4.00 | 1.00 | 1.00 | 1.00 | 4.00 | | 1.00 | | | 1.00 | | | | |
| | Actual | 0.96 | | 3.19 | | 4.20 | 0.83 | 0.88 | 0.97 | 4.01 | | 1.01 | | | 0.93 | | | | |
| 73 of 96 | Expected | | 1.00 | 4.00 | | 4.00 | 1.00 | 1.00 | 1.00 | 4.00 | 1.00 | | | | | | | | 1.00 |
| | Actual | | 0.84 | 4.30 | | 4.35 | | 0.84 | 0.87 | 3.95 | 0.91 | | | | | | | | 0.94 |
| 74 of 96 | Expected | 1.00 | 1.00 | 4.00 | | 2.00 | | | 1.00 | 3.00 | 1.00 | | | | 2.00 | 1.00 | | | 1.00 |
| | Actual | 0.96 | 0.83 | 4.48 | | 2.15 | | | 0.89 | 2.97 | 0.90 | | | | 1.79 | 1.11 | | | 0.91 |
| 75 of 96 | Expected | 2.00 | 1.00 | 3.00 | | 2.00 | | | 2.00 | 2.00 | | | | | 2.00 | 1.00 | | | 2.00 |
| | Actual | 1.88 | 0.86 | 3.26 | | 2.35 | | | 1.93 | 1.94 | | | | | 1.68 | 0.99 | | | 2.11 |
| 76 of 96 | Expected | 1.00 | | 2.00 | | 3.00 | 1.00 | | 2.00 | 3.00 | | | | | 3.00 | 1.00 | | | 1.00 |
| | Actual | 1.05 | | 2.24 | | 3.08 | 0.87 | | 2.20 | 3.14 | | | | | 2.52 | 0.88 | | | 1.03 |
| 77 of 96 | Expected | 1.00 | | 3.00 | | 3.00 | 1.00 | | 3.00 | 3.00 | | | | | 2.00 | | | | 1.00 |
| | Actual | 0.98 | | 3.43 | | 3.22 | 0.96 | | 2.64 ^b | 2.99 | | | | | 1.73 | | | | 1.04 |
| 78 of 96 | Expected | 1.00 | | 3.00 | | 3.00 | 1.00 | 1.00 | 2.00 | 4.00 | | | | | 2.00 | | | | |
| | Actual | 1.03 | | 3.44 | | 3.35 | 0.91 | 0.95 | 1.70 ^b | 3.82 | | | | | 1.80 | | | | |
| 79 of 96 | Expected | 1.00 | 1.00 | 2.00 | | 3.00 | | 1.00 | 1.00 | 4.00 | 3.00 | | | | 1.00 | | | | |
| | Actual | 0.96 | 0.82 | 2.27 | | 3.36 | | 0.81 | 0.90 | 4.04 | 2.77 | | | | 1.07 | | | | |
| 80 of 96 | Expected | 2.00 | 1.00 | | | 1.00 | 1.00 | 1.00 | | 5.00 | 3.00 | 1.00 | | 1.00 | 1.00 | | | | |
| | Actual | 1.99 | 0.89 | | | 1.11 | 0.97 | 0.86 | | 5.30 | 2.97 | 0.80 | | 1.00 | 1.11 | | | | |
| 81 of 96 | Expected | 1.00 | 1.00 | 1.00 | | 1.00 | 3.00 | | 1.00 | 2.00 | 3.00 | 1.00 | | 1.00 | 1.00 | | | | 1.00 |
| | Actual | 1.04 | 0.86 | 1.16 | | 1.12 | 2.69 | | 0.99 | 2.16 | 3.09 | 0.86 | | 0.97 | 1.11 | | | | 0.95 |
| 82 of 96 | Expected | 1.00 | | 1.00 | 1.00 | 2.00 | 3.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | | | 1.00 |
| | Actual | 0.92 | | 1.15 | 0.00 ^c | 2.34 | 2.61 | 1.07 | 0.90 | 1.11 | 1.17 | | 1.05 | 0.94 | 0.92 | 0.96 | | | 0.85 |
| 83 of 96 | Expected | | | 2.00 | 3.00 | 3.00 | 2.00 | 1.00 | 1.00 | | 2.00 | | 1.00 | | | 2.00 | | | |
| | Actual | | | 2.31 | 0.00 ^c | 3.44 | 1.93 | 0.83 | 0.93 | | 1.96 | | 0.93 | | | 1.68 | | | |
| 84 of 96 | Expected | 2.00 | 1.00 | 2.00 | 2.00 | 2.00 | | 1.00 | 1.00 | 1.00 | 2.00 | | 1.00 | | | 2.00 | | | |
| | Actual | 1.97 | 0.85 | 2.39 | 0.00 ^c | 2.31 | | 0.85 | 0.94 | 1.15 | 1.96 | | 0.96 | | | 1.61 | | | |
| 85 of 96 | Expected | 3.00 | 1.00 | 3.00 | 2.00 | 1.00 | 2.00 | | 1.00 | 1.00 | | | 1.00 | | | 2.00 | | | |
| | Actual | 2.85 | 0.84 | 3.46 | 0.00 ^c | 1.07 | 1.92 | | 1.00 | 1.05 | | | 0.96 | | | 1.85 | | | |
| 86 of 96 | Expected | 3.00 | 1.00 | 2.00 | | 1.00 | 2.00 | | 1.00 | 1.00 | | | 2.00 | 1.00 | 1.00 | 2.00 | | | |
| | Actual | 2.96 | 0.91 | 2.39 | | 1.11 | 1.77 | | 0.95 | 1.00 | | | 1.87 | 0.92 | 0.87 | 2.26 | | | |
| 87 of 96 | Expected | 1.00 | | 3.00 | | 1.00 | 1.00 | | 1.00 | 2.00 | | | 3.00 | 1.00 | 2.00 | 2.00 | | | |
| | Actual | 0.96 | | 3.46 | | 1.18 | 0.87 | | 0.99 | 2.00 | | | 2.79 | 0.92 | 1.72 | 2.11 | | | |
| 88 of 96 | Expected | 2.00 | | 3.00 | | | | | 1.00 | 3.00 | | | 2.00 | 1.00 | 3.00 | 2.00 | | | |
| | Actual | 1.94 | | 3.46 | | | | | 0.89 | 3.23 | | | 1.99 | 0.87 | 2.67 | 1.96 | | | |
| 89 of 96 | Expected | 2.00 | | 7.00 | | | 1.00 | | 1.00 | 3.00 | | | | | 2.00 | 1.00 | | | |
| | Actual | 1.83 | | 7.49 | | | 0.93 | | 0.93 | 2.91 | | | | | 1.75 | 1.16 | | | |
| 90 of 96 | Expected | 2.00 | | 5.00 | | | 1.00 | 1.00 | 1.00 | 4.00 | | | | | 1.00 | 1.00 | | 1.00 | |
| | Actual | 1.89 | | 5.47 | | | 0.90 | 0.83 | 0.86 | 4.05 | | | | | 1.03 | 1.13 | | 0.84 | |
| 91 of 96 | Expected | 2.00 | | 3.00 | | | 1.00 | 1.00 | 1.00 | 3.00 | | | | | 2.00 | 2.00 | | 2.00 | |
| | Actual | 1.85 | | 3.46 | | | 0.85 | 0.97 | 0.87 | 3.08 | | | | | 1.72 | 2.27 | | 1.94 | |
| 92 of 96 | Expected | 3.00 | | | | | | | 1.00 | 4.00 | | | | | 3.00 | 3.00 | | 2.00 | 1.00 |
| | Actual | 2.85 | | | | | | | 1.16 | 4.39 | | | | | 2.83 | 2.70 | | 1.89 | 1.18 |

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) | |
|----------|----------|------------|------------|--------------|-------------------|--------------|------------|------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|
| 93 of 96 | Expected | 4.00 | | | | | | | 2.00 | 3.00 | | 1.00 | 1.00 | | 3.00 | 2.00 | | | 1.00 | |
| | Actual | 3.66 | | | | | | | 2.35 | 3.26 | | 0.88 | 1.07 | | 2.62 | 2.04 | | | 1.12 | |
| 94 of 96 | Expected | 2.00 | 1.00 | | | | | | 2.00 | 3.00 | | 2.00 | 1.00 | | 1.00 | 1.00 | | | 1.00 | 3.00 |
| | Actual | 2.17 | 0.81 | | | | | | 2.18 | 2.52 | | 2.18 | 0.82 | | 1.16 | 1.11 | | | 0.93 | 3.12 |
| 95 of 96 | Expected | 1.00 | 1.00 | 2.00 | 1.00 | | | | 2.00 | 1.00 | | 1.00 | 1.00 | | 3.00 | | | | 1.00 | 3.00 |
| | Actual | 0.84 | 1.12 | 2.38 | 0.00 ^c | | | | 1.81 ^b | 0.90 | | 0.95 | 0.86 | | 3.06 | | | | 0.94 | 3.16 |
| 96 of 96 | Expected | | 1.00 | 2.00 | 2.00 | | | | 1.00 | 1.00 | | 1.00 | | | 3.00 | | | | 1.00 | 2.00 |
| | Actual | | 0.85 | 2.37 | 0.00 ^c | | | | 1.07 | 1.08 | | 0.84 | | | 2.55 | | | | 0.84 | 2.40 |

^aTrp was completely destroyed during hydrolysis

^bVal-Ile, Val-Val, Ile-Ile and/or Ile-Val bonds were only partially destroyed during hydrolysis

^cCys was completely destroyed during hydrolysis

Date: 08 NOV 2010

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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