

**CERTIFICATE OF ANALYSIS****Sample Identification:**

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**KK123: Special Analysis (HPLC)****Method Reference:****Completed:****Result****Theoretical  
Level****KK512: Glutamine, Free (HPLC) with OPA/Fmoc Derivatization****Method Reference:****Completed:****Result****Theoretical  
Level****QD252: Protein - Combustion****Method Reference:****Completed:****Result****Theoretical  
Level****QQ141: Tryptophan (AOAC, Most Matrices)****Method Reference:****Completed:****Result****Theoretical  
Level**

**QQ176: Amino Acids by AH (AOAC, Most Matrices)**

**Method Reference:** AOAC 982.30 mod.

**Completed:** 08/28/2015

|               | <b>Result</b>    | <b>Theoretical Level</b> |
|---------------|------------------|--------------------------|
| Aspartic Acid | 3,104 mg/Serving |                          |
| Threonine     | 2,114 mg/Serving |                          |
| Serine        | 1,476 mg/Serving |                          |
| Glutamic Acid | 5,029 mg/Serving |                          |
| Proline       | 1,741 mg/Serving |                          |
| Glycine       | 520 mg/Serving   |                          |
| Alanine       | 1,419 mg/Serving |                          |
| Valine        | 1,705 mg/Serving |                          |
| Isoleucine    | 1,837 mg/Serving |                          |
| Leucine       | 2,871 mg/Serving |                          |
| Tyrosine      | 755 mg/Serving   |                          |
| Phenylalanine | 865 mg/Serving   |                          |
| Total Lysine  | 2,515 mg/Serving |                          |
| Histidine     | 512 mg/Serving   |                          |
| Arginine      | 682 mg/Serving   |                          |

**QQ177: Cystine & Methionine (AOAC, Most Matrices)**

**Method Reference:** AOAC 994.12 mod.

**Completed:** 08/28/2015

|            | <b>Result</b>  | <b>Theoretical Level</b> |
|------------|----------------|--------------------------|
| Cystine    | 563 mg/Serving |                          |
| Methionine | 575 mg/Serving |                          |

Results pertain only to the items tested.

All results are reported on an as-is basis unless otherwise stated.

Estimation of uncertainty of measurement is available upon request.

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Charu Punatar  
QC Analyst II