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GreenSelenium

**Selenium as Bioavailable
L-(+)Selenomethionine (USP)**

CERTIFICATE OF ANALYSIS

Batch No. : EOI/GS/101.000/1601

Mfg. Date : April 13th 2016

Shelf Life : 36 Months

Retest Date : March 2019

Product description : L-(+)Selenomethionine (USP)

CAS No. : 3211-76-5

| Test Parameters | Limit | Results | Method Applied |
|-------------------------------------|--|--------------------|----------------|
| Appearance | White to off – white Powder | Complies | USP 30 (P 256) |
| Odour | Smell free (No aromatic odour) | Complies | STP/QC-04 |
| Particle Size | 100% through 60 mesh | Complies | USP 30 (P 318) |
| Melting Point | About 260°C with decomposition | Complies | USP 30 (P 790) |
| Moisture Content | ≤ 1% | 0.070 % | Karl Fisher |
| Assay By HPLC (on dry basis) | 97-103% | 99.8 % | USP 30 (P 985) |
| Assay by Titration | 97%-103% | 99.9% | USP 30 (P 790) |
| Selenium Content | 39-41% | 39.0% | USP 30 (P 985) |
| Isomeric Purity | 100% L-Selenomethionine | Complies | HPLC |
| Identification | Infrared absorption | Complies | USP 30 (P 985) |
| Specific Rotation | +18 ^o to +19.5 ^o | +18.1 ^o | USP 30 (P 985) |
| Heavy Metals | ≤ 20 ppm | Complies | USP 30 (P 985) |
| Lead | ≤ 0.5 ppm | Complies | AAS or ICP-MS |
| Arsenic | ≤ 0.5 ppm | Complies | AAS or ICP-MS |
| Mercury | ≤ 0.1 ppm | Complies | AAS or ICP-MS |
| Cadmium | ≤ 0.5 ppm | Complies | AAS or ICP-MS |
| Sodium Content | NMT 0.1% | Complies | USP 30 (P 985) |
| Chromatographic Purity | No spot other than principle spot | Complies | USP 30 (P 985) |
| Microbial Test | | | |
| Total Plate Count | 1000 cfu/gm (max) | 0 cfu/gm | USP 32 |
| Yeast & Molds | 100 cfu/gm (max) | 0 cfu/gm | USP 32 |
| E.coli | Absent in 10 gm | Absent | USP 32 |
| Salmonella sp. | Absent in 1 gm | Absent | USP 32 |
| S. aureus | Absent in 1 gm | Absent | USP 32 |
| Ps. aeruginosa | Absent in 1 gm | Absent | USP 32 |

Packaging: Bulk Material is packaged in 1 Kg, 5 Kg container with inner liners.

Storing and Handling: Store in cool, dry place.

Shelf Life: Best before 36 months from the date of manufacture, unless retested.

Analyzed By: Elizabeth Faulkner Approved By: Dr. Shashtri Date : April 20th 2016

Rev. 7.0_DR.VB_dt. March 22, 2016