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## GreenSelenium

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

### CERTIFICATE OF ANALYSIS

**Batch No. : EOI/GS/101.000/1602**

**Mfg. Date : April 20<sup>th</sup> 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
<b>Appearance</b>	White to off – white Powder	Complies	USP 30 (P 256)
<b>Odour</b>	Smell free (No aromatic odour)	Complies	STP/QC-04
<b>Particle Size</b>	100% through 60 mesh	Complies	USP 30 (P 318)
<b>Melting Point</b>	About 260°C with decomposition	Complies	USP 30 (P 790)
<b>Moisture Content</b>	≤ 1%	0.060 %	Karl Fisher
<b>Assay By HPLC (on dry basis)</b>	97-103%	99.7 %	USP 30 (P 985)
<b>Assay by Titration</b>	97%-103%	99.9%	USP 30 (P 790)
<b>Selenium Content</b>	39-41%	39.8%	USP 30 (P 985)
<b>Isomeric Purity</b>	100% L-Selenomethionine	Complies	HPLC
<b>Identification</b>	Infrared absorption	Complies	USP 30 (P 985)
<b>Specific Rotation</b>	+18 <sup>o</sup> to +19.5 <sup>o</sup>	+18.9 <sup>o</sup>	USP 30 (P 985)
<b>Heavy Metals</b>	≤ 20 ppm	Complies	USP 30 (P 985)
<b>Lead</b>	≤ 0.5 ppm	Complies	AAS or ICP-MS
<b>Arsenic</b>	≤ 0.5 ppm	Complies	AAS or ICP-MS
<b>Mercury</b>	≤ 0.1 ppm	Complies	AAS or ICP-MS
<b>Cadmium</b>	≤ 0.5 ppm	Complies	AAS or ICP-MS
<b>Sodium Content</b>	NMT 0.1%	Complies	USP 30 (P 985)
<b>Chromatographic Purity</b>	No spot other than principle spot	Complies	USP 30 (P 985)
<b>Microbial Test</b>			
<b>Total Plate Count</b>	1000 cfu/gm (max)	0 cfu/gm	USP 32
<b>Yeast &amp; Molds</b>	100 cfu/gm (max)	0 cfu/gm	USP 32
<b>E.coli</b>	Absent in 10 gm	Absent	USP 32
<b>Salmonella sp.</b>	Absent in 1 gm	Absent	USP 32
<b>S. aureus</b>	Absent in 1 gm	Absent	USP 32
<b>Ps. aeruginosa</b>	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 28<sup>th</sup> 2016

Rev. 7.0\_DR.VB\_dt. March 22, 2016