Trafa Pharmaceutical Inc.
140 Padgette Street, Unit D
Chicopee, MA 01022, USA
Tel: 1-866-99-Trafa (87232) FAX: 1-800-627-1880
Sales@TrafaPharma.com www.TrafaPharma.com

Specification Sheet

Product Name	L-THEANINE
Bulk Density	0.34 g/ml
Molecular Weight:	174.2
Specification	Enterprise Standard
Molecular Formula	$C_7H_{13}N_2O_3$
Cas #	3081-6-16
ITEM	**STANDARD**
Appearance	White crystalline powder
Specific rotation (a) D20 (C=1, H2O)	$+7.5^0$ to $+8.5^0$
Solubility	Freely soluble in water, insoluble in EtOH
Assay	98.0 – 102.0%
Melting Point (^{0}C)	200 ^{0}C to 210 ^{0}C
Chloride (CI)	Not more than 0.02%
Iron (FE)	Not more than 10 ppm
Heavy Metals (Pb)	Not more than 10 ppm
Arsenic (As2O3)	Not more than 4 ppm
Moisture	Not more than 1.0%
Residue on Ignition	Not more than 0.2%
Total Plate Count	Not more than 1000 cfu/g
Yeast & Mold	Not more than 100 cfu/g
Ethyl alcohol	Not more than 3000 ppm
E. Coli	Negative
Salmonella	Negative
PH	5.0 – 6.0
Mesh Size	90% through 60 mesh
Lead	Not more than 1 ppm
Cadmium	Not more than 0.3 ppm
Mercury	Not more than 0.1 ppm
Conclusion	The product conforms to the standard

Note: The above information is based on the certificate of analysis received from the manufacturer of this product and not intended as a substitute for strict quality control analysis by the purchaser of this product.

Reviewed by : _____

Abdullah Malik (QA)