

# L-Theanine

## PRODUCT SPECIFICATION

<b>Chemical identification</b>	
Chemical name	N-ethyl-L-glutamine
Country of Origin	Chine China
CAS Number	3081-61-6
EINECS Number	221-379-0
Compliance	JP
Manufacturing process	Synthesis
<b>Description</b>	
Appearance	Crystals or crystalline powder
Colour	White
Particle Size	100 % through 100 mesh
Solubility	1g/20ml
Molecular weight	174g/mol
Molecular Formula	C7H14N2O3
<b>Chemical and Physical Properties</b>	
Assay	98 ~ 102.0 %
Loss on Drying	0.5 %
Residue on ignition	0.2 %
pH (1%, H2O)	4.5 ~6.0
Specific rotation[α] <sub>20/D</sub>	+7.7 ~ +8.5°
Melting point	202-215°C
Transmittance	90.0 %
Sulphate	0.015 %
Chloride	0.02 %
<b>Heavy Metals</b>	
Total Heavy metals	10 ppm
Arsenic	1 ppm
Lead	3 ppm
Cadmium	1 ppm
Mercury	0.1 ppm
<b>Microbiologie / Microbial specifications</b>	
Total Plate Count (CFU/g)	100
Yeast and Mold (CFU/g)	100
E. Coli	Absence

HANDLING AND STORAGE CONDITIONS in tightly closed containers, dry place and away from direct light

PACKAGING 25 kg drums

SHELF LIFE 3 years in proper storage conditions

It is the responsibility of the user to determine the suitability of this product for any intended use