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SPECIFICATION SHEET**L-Theanine**

Item Code: 306

Country of Origin: China

Updated: August 2012

Molecular Formula: C₇H₁₄N₂O₃

Molecular Weight: 174.2

TEST ITEMS**SPECIFICATIONS****TEST METHODS**

Description

White crystalline powder
with slight sweet taste

Visual

Identification

Positive

Visual

Melting Point

210.0°C-215.0°C

USP<741>

Specific Rotation

+ 6.5° - + 8.5° (in 5% solution)

USP<781S>

pH (1% solution)

5.0 - 6.0

USP<791>

Moisture

≤2.0%

USP<731>

Residue on Ignition

≤0.2%

GB/T 5009.4

Assay (by titration)

98.0% - 102.0%

HPLC

Heavy Metals

≤20 ppm

USP<231>

Arsenic

≤4 ppm

USP<211>

Chloride

≤0.021%

GB/T 5009.18

Microbiology:

Total aerobic plate count

≤1,000 cfu/g

USP/NF<2021>

Yeast & Mold

≤100 cfu/g

USP/NF<2021>

E. coli

Negative

USP/NF<2022>

Salmonella

Negative

USP/NF<2022>

Shelf Life:

2 years

Packing:

In drums of 25 kgs

- Kosher certified

Gayathri Vasudevan

Manager, Quality Assurance & Regulatory