

# PREMIUM INGREDIENT CO.,LTD

## Certificate of Analysis

Product Name: L-Theanine  
Producing date: 2019.07.10

Batch No.: 201907104  
Report date: 2019.07.16

quantity: 1240kg  
Expiry date: 2021.07.09

Test item	limit	Test result
character	White or slightly yellowish graininess crystalline or powder crystalline	White crystalline powder
Specific rotation	+7.5° to +8.5°	+8.0
Clarity of solution	Clarity and transparency	Clarity and transparency
Assay	98% to 102.0%	98.2%
Loss on drying	≤ 1.0%	0.42%
Residue on ignition	≤0.2%	0.05%
Chloride	≤ 0.02%	<0.02%
Sulfate	≤0.02%	<0.02%
PH	5.0-6.0	5.26
granularity	100% over 80 meshes	100%
Fe	≤10ppm	ND
As	≤2ppm	ND
Pb	≤0.5ppm	ND
Cd	≤1ppm	ND
Hg	≤ 0.1ppm	ND
Heavy metal	≤10ppm	ND
Total plat count	≤1000cfu/g	100cfu/g
Coliforms	Negative	ND
Mould and yeast	≤100cfu/g	20cfu/g
salmonella	negative	ND
Conclusion: Conform to the specifications		

QA manager: Li Zhengbei

QC manager: Cheng Mei