

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