



Certificate of Analysis

L-Aspartic Acid USP/FCC/AJ197

Catalog Number: AG1006
Lot Number: 0823804
CAS Number: 56-84-8
Molecular Formula: C₄H₇NO₄
Molecular Weight: 133.10
Storage: 15°C – 30°C
Date of Manufacture: December 28, 2017
Retest Date: December 27, 2019

| Test | Specification | Result |
|-----------------------|------------------------|--------------|
| Appearance | White powder | Conforms |
| Assay | 98.50% to 101.50% | 99.5% |
| Identification (IR) | To meet requirements | Conforms |
| Specific Rotation | +24.8° to +25.8°C | +25.4° |
| Transmittance | ≥98.0% | 99.2% |
| pH value | 2.5 to 3.5 | 2.9 |
| Moisture (LOD) | ≤ 0.20% | 0.04% |
| Residue on Ignition | ≤ 0.10% | 0.07% |
| Ammonium | ≤ 0.02% | < 0.02% |
| Chloride | ≤ 0.02% | < 0.02% |
| Sulfate | ≤ 0.02% | < 0.02% |
| Residual Solvents | Meets the requirements | Conforms |
| Individual Impurities | ≤ 0.5% | < 0.5% |
| Total Impurities | ≤ 2.0% | < 2.0% |
| Heavy Metals | ≤ 10ppm | < 10ppm |
| Arsenic | ≤ 1.0ppm | < 1ppm |
| Cadmium | ≤ 1.0ppm | < 1ppm |
| Lead | ≤ 3.0ppm | < 3ppm |
| Mercury | ≤ 0.1ppm | < 0.1ppm |
| Iron | ≤ 10ppm | < 10ppm |
| Total plate count | ≤ 1,000cfu/g | < 1,000cfu/g |
| Yeast & mold | ≤ 100cfu/g | < 100cfu/g |
| E. Coli | ≤ 3MPN/g | < 3MPN/g |
| Coliforms | ≤ 3MPN/g | < 3MPN/g |
| Salmonella | Negative | Negative |
| Staphylococcus Aureus | Negative | Negative |

This lot meets requirements for USP38, FCC9, AJ197.



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Approved by:

John Grubb

Date: August 23, 2018

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