


CERTIFICATE OF ANALYSIS

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|----------------------|---------------------------------------------------------------|--------------|--------------|
| Product Name: | L-Lysine L-Aspartate | Report Date: | Aug 04, 2017 |
| Formula: | C ₁₀ H ₂₁ N ₃ O ₆ | Batch No.: | 170802 |
| CAS No.: | 27348-32-9 | Manu. Date: | Aug 02, 2017 |
| Inspection Standard: | AJI92 | Exp. Date: | Aug 01, 2019 |

RESULTS OF ANALYSIS

| Test Items | Specifications | Results |
|--------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------|
| Appearance | White crystals or crystalline powder | Conforms |
| Specific rotation $[\alpha]_D^{20}$ | +24.0° to +26.5° | +25.2° |
| Identification | Infrared Absorption | Conforms |
| State of solution (Transmittance) | Clear and colorless Not less than 98.0% | 99.0% |
| Chloride(Cl) | Not more than 0.04% | <0.04% |
| Ammonium(NH ₄) | Not more than 0.02% | <0.02% |
| Sulfate(SO ₄) | Not more than 0.030% | <0.030% |
| Iron(Fe) | Not more than 30ppm | <30ppm |
| Heavy Metals(Pb) | Not more than 10ppm | <10ppm |
| Arsenic | Not more than 1ppm | <1ppm |
| Other amino acids | Chromatographically not detectable | Conforms |
| Water | Not more than 0.5% | 0.26% |
| Residue on ignition(sulfated) | Not more than 0.20% | 0.11% |
| Assay | 98.0% to 101.0% | 99.6% |
| PH | 5.0 to 7.0 | 6.2 |
| Conclusion: | Conforms to the specifications of AJI92. |  |

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