

## CERTIFICATE OF ANALYSIS

### 1. Basic Information

Chemical Name: L-arginine and L-aspartic acid	CAS Number: 7675-83-4
Molecular Weight: 307.3	Formula: C10H21N5O6
Batch Number: 2025011101	Manufacturing Date: Jan,11 <sup>th</sup> ,2025
Quantity: 100kgs	Retest Date: Jan,10 <sup>th</sup> ,2026

### 2. Physical Characteristics

Items	Standard	Result
Appearance	White crystalline powder	Conform
Identification	Infrared absorption	Conform
Specific rotation $[\alpha]_D^{20}$	+25.5° to +27.50°	+25.9°
State of solution (Transmittance)	Clear and colorless Not less than 98.0%	99.2%
Chloride(Cl)	Not more than 0.05%	<0.05%
Ammonium(NH4)	Not more than 0.02%	<0.02%
Sulfate(SO <sub>4</sub> )	Not more than 0.030%	<0.030%
Iron(Fe)	Not more than 30ppm	<30ppm
Heavy Metal(Pb)	Not more than 10ppm	<10ppm
Arsenic(as As <sub>2</sub> O <sub>3</sub> )	Not more than 1ppm	<1 ppm
Lead	Not more than 3ppm	<3ppm
Other amino acids	Chromatographically Not detectable	Conform
Loss on Drying	Not more than 3.0%	1.84%
Residue on ignition (sulfated)	Not more than 0.20%	0.05%
Assay	98.5 to 101.0%	99.0%

PH	5.5 to7.0	5.9
Total plate count	Less than 1000 CFU/G	Conforms
Mold and Yeast	Less than 100 CFU/G	Conforms
Conclusion	Comply with the standards.	

**QC Manager: Liu Si**

**Checker: Hu Kai**

**Approved: Shao Jin**