

CERTIFICATE OF ANALYSIS

Product Name	L-SERINE		
Reference standard	AJI92		
Quantity	500kgs	Package	25kg/ drum
Batch Number	20220516	Manufacture Date	20220516
Report Date	20220516	Expiry Date	20240515

Item of Analysis	Specification	Results
Appearance	White crystals or crystalline powder	Conforms
Identification	Meets the requirements	Meets the requirements
Specific rotation	+14.4 to +15.5°	+14.5°
State of solution	Not less than 98.0%	99.7%
Chloride(CL)	Not more than 0.020%	< 0.020%
Ammonium(NH ₄)	Not more than 0.02%	< 0.02%
Sulfate(SO ₄)	Not more than 0.020%	< 0.020%
Iron(Fe)	Not more than 10ppm	< 10 ppm
Heavy metals(Pb)	Not more than 10ppm	<10ppm
Arsenic(as As ₂ O ₃)	Not more than 1ppm	<1ppm
Loss on Drying	Not more than 0.2%	0.01%
Residue on ignition	Not more than 0.1%	0.05%
Assay	99.0 to 101.0 %	99.4%
Other amino acids	Chromatographically Not detectable	Conforms
PH	5.2 to 6.2	5.8
Conclusion: This product conforms to requirements of AJI92 grade standard		

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

