

Certificate of Analysis

Product Name	L-Serine		
Batch No	C-604202102018	Standard	USP35
Production Date	2025-01-23	Expiration Date	2028-01-22
Quantity	1000kg	Packing	25kg/drum

Item	Specification	Result
Appearance	White crystalline or crystalline powder	Conforms
Identification	Infrared Absorption	Conforms
Specific rotation $[\alpha]_{D^{20}}$	+ 14.0 to + 15.6°	+ 15.0°
Loss on drying	Not more than 0.20%	0.04%
Residue on ignition	Not more than 0.10%	0.04%
Chloride(Cl)	Not more than 0.05%	Conforms
Sulfate(SO ₄)	Not more than 0.03%	Conforms
Iron(Fe)	Not more than 30ppm	Conforms
Heavy metals	Not more than 15ppm	Conforms
Lead	Not more than 3ppm	Conforms
Arsenic(as As ₂ O ₃)	Not more than 1ppm	Conforms
Mercury	Not more than 0.1ppm	Conforms
Cadmium	Not more than 1ppm	Conforms
Chromatographic purity	NMT 0.5% of any individual impurity is found NMT 2.0% of total impurities is found	Conforms
Organic volatile impurities	Meets the requirement	Conforms
Assay	98.5% to 101.5%	99.7%
Total Plate Count	Not more than 1000cfu/g	Conforms
Yeast and Mould	Not more than 100cfu/g	Conforms
E.Coli	Negative	Negative
Salmonella	Negative	Negative
S.aureus	Negative	Negative
Conclusion	Conforms	

