



CERTIFICATE OF ANALYSIS

Product Name	L-Cysteine	Batch No.	JL20250528
CAS	52-90-4	MF Date	MAY.28,2025
Packing	25kg/drum	Analysis Date	MAY.28,2025
Quantity	3000kg	Expiry Date	MAY.27,2027
ITEM	STANDARD		RESULT
Specific optical rotation $[\alpha]_D^{20^\circ}$	+8.3°~+9.50		+8.40°
State of solution(Transmittance)	≥95.0%		98.5%
Assay	98.0%~101.0%		99.5%
Heavy metals(Pb)	≤10PPM		<10PPM
Chloride(Cl)	≤0.04%		<0.04%
Arsenic(As ₂ O ₃)	≤1PPM		<1PPM
Loss on drying	≤0.50%		0.32%
Residue on ignition	≤0.10%		0.05%
pH value	4.5~5.5		4.8
Iron(Fe)	≤10PPM		<10PPM
Ammonium(NH ₄)	≤0.02%		<0.02%
Sulfate(SO ₄)	≤0.020%		<0.020%
Other amino acids	Chromatographically		Qualified
Conclusion	Qualified		

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