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## **CERTIFICATE OF ANALYSIS**

Product Name	L-GLUTAMIC ACID 99% FOR BACTERIOLOGY & TISSUE CULTURE
Cas No.	56-86-0
Code No.	B-01284
Batch No.	BC01221389
Mfg.Date	JAN-2024
Date of Analysis	08/01/2024
Retest Date	DEC-2024

TEST	SPECIFICATION	RESULT
Appearance	A white powder	A white powder
Assay (acidimetric)	Min 99%	99.32%
Specific optical rotation ([?]20/D; 100 g/L in 1 mol/L HCl; on dried substance)	+30.5 to +32.5 0	+31.5°
Chloride (Cl)	Max 0.02%	0.0001%
Sulphate (SO4)	Max 0.03%	0.007%
Heavy metal (as Pb)	Max 0.001%	0.0003%
Iron (Fe)	Max 0.001%	0.0008%
Ammonium (NH4)	Max 0.02%	0.001%
Ninhydrin positive substance (TLC)	Max 0.5%	0.14%
Sulphated ash (at 600°C)	Max 0.1%	0.065%
Loss on drying (at 105°C)	Max 0.5%	0.15%

REMARK: This product complies as per the specifications of **BIO-CHEM CHEMICALS**.

This is an electronically generated certificate and is valid without a signature. For Issues relating to quality you may send us a mail on info@biofinechemicals.com or call on +91-7404210730 Website- www.biofinechemicals.com