



# BIO-CHEM CHEMICALS

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## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	<b>L-CYSTEINE HYDROCHLORIDE MONOHYDRATE 98.5% FOR BIOCHEMISTRY</b>
<b>Code No.</b>	<b>B-00924</b>
<b>Batch No.</b>	<b>BC10221585</b>
<b>Mfg.Date</b>	<b>OCT-2024</b>
<b>Date of Analysis</b>	<b>18/10/2024</b>
<b>Retest Date</b>	<b>SEP-2029</b>

<b>TEST</b>	<b>SPECIFICATION</b>	<b>RESULT</b>
Appearance	White crystals or crystalline powder / Colorless crystal	White crystalline powder
Assay (on anhydrous basis)	98.5 - 101.5%	98.97%
Specific optical rotation ( $[\alpha]_{20/D}$ )	+5.7° to +6.8°	+5.8821°
Identity (IR)	Passes test	Passes
Residue on ignition	Max. 0.4%	0.14%
Iron (Fe)	Max. 0.003%	0.0005%
Sulphate (SO <sub>4</sub> )	Max. 0.03%	0.012%
Heavy metal (as Pb)	Max. 0.0015%	0.0003%
Related compounds	Passes test	Passes
Individual impurities	Max. 0.5%	0.17%
Loss on drying (at R.T.; pressure max 5 mm of mercury; 24 hrs)	Max. 0.1%	Less than 0.1%

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](mailto:info@biofinechemicals.com) or call on  
**+91-7404210730** Website- [www.biofinechemicals.com](http://www.biofinechemicals.com)