



# BIO-CHEM CHEMICALS

Office Address: 5455, Nicholson Road Science Market , Ambala Cantt.133001 Haryana(India) ,  
Contact no: +91-8295241953, +91-7404210730

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	<b>L-CYSTEINE 99% FOR BIOCHEMISTRY</b>
<b>Cas No.</b>	<b>52-90-4</b>
<b>Code No.</b>	<b>B-00923</b>
<b>Batch No.</b>	<b>BC05230426</b>
<b>Mfg.Date</b>	<b>MAY-2024</b>
<b>Date of Analysis</b>	<b>18/05/2024</b>
<b>Retest Date</b>	<b>APR-2029</b>

<b>TEST</b>	<b>SPECIFICATION</b>	<b>RESULT</b>
Appearance	Colorless crystalline powder	Colorless crystalline powder
Assay	Min. 99.0%	99.71%
Specific optical rotation ( $[\alpha]_{20}^D$ )	+8.0° to +9.0°	+8.0°
UV absorbance	Max. 0.5	0.23
Loss on drying (at 105°C; 4 hrs)	Max. 0.3%	0.16%
Chloride (Cl)	Max. 0.002%	0.0007%
Sulphate (SO <sub>4</sub> )	Max. 0.01%	0.002%
Heavy metal (as Pb)	Max. 0.001%	0.0008%
Ammonium (NH <sub>4</sub> )	Max. 0.01%	0.0071%
Foreign amino acids	Max. 0.5%	0.14%
Other ninhydrin positive substances (as glycine)	Max. 0.1%	0.023%

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)