



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : L-CYSTEINE FOR BIOCHEMISTRY**

<b>CAS No</b>	<b>: 52- 90- 4</b>	<b>Product code</b>	<b>: 14020</b>
<b>Mol. Formula</b>	<b>: C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>S</b>	<b>Batch No.</b>	<b>: MCR-17512-02</b>
<b>Mol. WT</b>	<b>: 121.16</b>	<b>Mfd.</b>	<b>: March 2022</b>
<b>Date of Analysis</b>	<b>: 24/03/22</b>	<b>Exp.</b>	<b>: Feb. 2027</b>

S. R	Test	Specification	Observation
1	<b>Description</b>	White to almost white crystalline powder.	Almost white crystalline powder.
2	<b>Assay(on dried basis)</b>	99%w/w min	99.59 %w/w
3	<b>Sp. rotation [<math>\alpha</math>] <sup>20</sup>D C = 2, 5 N HCl</b>	+ 6.5 <sup>0</sup> to + 8 <sup>0</sup>	+7.5 <sup>0</sup>
4	<b>Loss on drying at 105°C</b>	0.5 % max	0.24%
5	<b>Chloride (Cl)</b>	0.01% max	< 0.01%
6	<b>Sulphate (SO<sub>4</sub>)</b>	0.01% max	< 0.01%
7	<b>Iron (Fe)</b>	0.001% max	< 0.001%
8	<b>Heavy metals (as Pb)</b>	0.001% max	< 0.001%
9	<b>Ammonium (NH<sub>4</sub>)</b>	0.01% max	< 0.01%

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

**HEAD-QUALITY ASSUARANCE  
(G.G.Salian)**

**Note:** Computer generated image requires no sign.

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