

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : L-ARGININE MONOHYDROCHLORIDE**

|                         |                                                                     |                     |              |
|-------------------------|---------------------------------------------------------------------|---------------------|--------------|
| <b>CAS No</b>           | : 1119-34-2                                                         | <b>Product code</b> | : 21940      |
| <b>Mol. Formula</b>     | : C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> .HCl | <b>Batch No</b>     | : MCR-29261  |
| <b>Mol. WT</b>          | : 210.66                                                            | <b>Mfd.</b>         | : Sept. 2023 |
| <b>Date of analysis</b> | : 12/09/23                                                          | <b>Exp.</b>         | : Aug. 2028  |

| S.R | Test                                                                     | Specification                                                     | Observation          |
|-----|--------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------|
| 1   | <b>Description</b>                                                       | White to almost white to Colourless crystalline powder or powder. | Almost white powder. |
| 2   | <b>Assay</b>                                                             | 99 % w/w min                                                      | 99.82% w/w           |
| 3   | <b>Specific rotation <math>[\alpha]^{20}_D</math><br/>( C=5, N HCl )</b> | +21 <sup>0</sup> to +23 <sup>0</sup>                              | +21.99 <sup>0</sup>  |
| 4   | <b>Loss on drying at 105°C</b>                                           | 0.5% max                                                          | 0.48%                |
| 5   | <b>Sulphate (SO<sub>4</sub>)</b>                                         | 0.01% max                                                         | < 0.01%              |
| 6   | <b>Iron (Fe)</b>                                                         | 0.001% max                                                        | < 0.001%             |
| 7   | <b>Heavy metals (as Pb)</b>                                              | 0.001% max                                                        | < 0.001%             |
| 8   | <b>Ammonium (NH<sub>4</sub>)</b>                                         | 0.01% max                                                         | < 0.01%              |

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

**[Tested By]**

**[QC Incharge]**

**CHEMIST  
(Jyoti)**

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

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

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