

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : L (+) TARTARIC ACID DEXTROROTATORY AR**

|                         |  |                     |              |
|-------------------------|--|---------------------|--------------|
| <b>CAS No</b>           | : 87-69-4                                      | <b>Product code</b> | : 26440      |
| <b>Mol. Formula</b>     | : C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> | <b>Batch No.</b>    | : MCAR-00681 |
| <b>Mol. WT</b>          | : 150.09                                       | <b>Mfd.</b>         | : Oct. 2024  |
| <b>Date of analysis</b> | : 04/10/24                                     | <b>Exp.</b>         | : Sept. 2029 |

| S.R | Test  | Specification                                    | Observation                 |
|-----|---|--|-----------------------------|
| 1   | <b>Description</b>                                      | Colourless crystals or white crystalline powder. | A white crystalline powder. |
| 2   | <b>Assay</b>  | 99.5% min  | 99.80%                      |
| 3   | <b>Specific rotation</b> [α] <sup>20</sup> <sub>D</sub> | +11.9° to +12.3°                                 | +12.25°                     |
| 4   | <b>Insoluble matter</b>                                 | 0.005%max  | 0.003%                      |
| 5   | <b>Sulphated ash</b>                                    | 0.01%max   | 0.005%                      |
| 6   | <b>Chloride (Cl)</b>                                    | 0.0005%max                                       | <0.0005%                    |
| 7   | <b>Sulphate (SO<sub>4</sub>)</b>                        | 0.01%max   | <0.01%                      |
| 8   | <b>Lead (Pb)</b>  | 0.0005%max                                       | <0.0005%                    |
| 9   | <b>Iron (Fe)</b>  | 0.0005% max                                      | <0.0005%                    |
| 10  | <b>Calcium (Ca)</b>                                     | 0.002%max  | <0.002%                     |
| 11  | <b>Nickel (Ni)</b>                                      | 0.0001%max                                       | <0.0001%                    |
| 12  | <b>Magnesium (Mg)</b>                                   | 0.002%max  | <0.002%                     |
| 13  | <b>Oxalate (C<sub>2</sub>O<sub>4</sub>)</b>             | 0.01%max   | <0.01%                      |
| 14  | <b>Phosphate (PO<sub>4</sub>)</b>                       | 0.0005%max                                       | <0.0005%                    |

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

**[Tested By]**



**CHEMIST  
(Durvas)**

**[QC Incharge]**



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

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