

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : CITRIC ACID PURE (MONOHYDRATE)**

|                         |                                                                  |                     |             |
|-------------------------|------------------------------------------------------------------|---------------------|-------------|
| <b>CAS No</b>           | : 5949- 29- 1                                                    | <b>Product code</b> | : 13660     |
| <b>Mol. Formula</b>     | : C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> .H <sub>2</sub> O | <b>Batch No</b>     | : MCR-24733 |
| <b>Mol. WT</b>          | : 210.14                                                         | <b>Mfd.</b>         | : Dec. 2021 |
| <b>Date of analysis</b> | : 27/12/21                                                       | <b>Exp.</b>         | : Nov. 2026 |

| S.R | Test                                     | Specification                                       | Observation          |
|-----|------------------------------------------|-----------------------------------------------------|----------------------|
| 1   | Description                              | Colourless or white crystals or crystalline powder. | Colourless crystals. |
| 2   | Assay (acidimetric)                      | 99.0 % w/w min                                      | 99.87% w/w           |
| 3   | Water                                    | 7.5 - 9%                                            | 7.55%                |
| 4   | Chloride (Cl)                            | 0.001%max                                           | < 0.001%             |
| 5   | Sulphate (SO <sub>4</sub> )              | 0.01%max                                            | < 0.01%              |
| 6   | Oxalate (C <sub>2</sub> O <sub>4</sub> ) | 0.05%max                                            | < 0.05%              |
| 7   | Lead (Pb)                                | 0.01%max                                            | < 0.01%              |
| 8   | Iron (Fe)                                | 0.0005%max                                          | < 0.0005%            |
| 9   | Zinc (Zn)                                | 0.001%max                                           | < 0.001%             |
| 10  | Arsenic (As)                             | 0.0001%max                                          | < 0.0001%            |
| 11  | Calcium (Ca)                             | 0.02%max                                            | < 0.02%              |
| 12  | Barium (Ba)                              | 0.002%max                                           | < 0.002%             |
| 13  | Readily carbonisable subs.               | passes test                                         | passes test          |
| 14  | Sulphated ash (600°)                     | 0.05%max                                            | 0.008%               |

**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.