

## 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-28357  |
| <b>Mol. WT</b>          | : 210.14                                                         | <b>Mfd.</b>         | : May 2023   |
| <b>Date of analysis</b> | : 23/05/23                                                       | <b>Exp.</b>         | : April 2028 |

| S.R | Test                                     | Specification                                    | Observation               |
|-----|------------------------------------------|--------------------------------------------------|---------------------------|
| 1   | Description                              | Colourless crystals or white crystalline powder. | White crystalline powder. |
| 2   | Assay (acidimetric)                      | 99.0 % w/w min                                   | 99.71% w/w                |
| 3   | Water                                    | 7.5 – 9 %                                        | 8.92%                     |
| 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                                        | 0.01%                     |

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

**[Tested By]**

**[QC Incharge]**

**CHEMIST  
(Priyanka)**

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

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