

## **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>     | : $C_6H_8O_7 \cdot H_2O$ | <b>Batch No</b>     | : MCR-22862 |
| <b>Mol. WT</b>          | : 210.14                 | <b>Mfd.</b>         | : Feb. 2021 |
| <b>Date of analysis</b> | : 18/02/21               | <b>Exp.</b>         | : Jan. 2026 |

| S.R | Test                                        | Specification                                       | Observation              |
|-----|---------------------------------------------|-----------------------------------------------------|--------------------------|
| 1   | <b>Description</b>                          | Colourless or white crystals or crystalline powder. | White crystalline powder |
| 2   | <b>Assay (acidimetric)</b>                  | 99.0 % w/w min                                      | 99.64% w/w               |
| 3   | <b>Water</b>                                | 7.5 - 9%                                            | 8.30%                    |
| 4   | <b>Chloride (Cl)</b>                        | 0.001%max                                           | < 0.001%                 |
| 5   | <b>Sulphate (SO<sub>4</sub>)</b>            | 0.01%max                                            | < 0.01%                  |
| 6   | <b>Oxalate (C<sub>2</sub>O<sub>4</sub>)</b> | 0.05%max                                            | < 0.05%                  |
| 7   | <b>Lead (Pb)</b>                            | 0.01%max                                            | < 0.01%                  |
| 8   | <b>Iron (Fe)</b>                            | 0.0005%max                                          | < 0.0005%                |
| 9   | <b>Zinc (Zn)</b>                            | 0.001%max                                           | < 0.001%                 |
| 10  | <b>Arsenic (As)</b>                         | 0.0001%max                                          | < 0.0001%                |
| 11  | <b>Calcium (Ca)</b>                         | 0.02%max                                            | < 0.02%                  |
| 12  | <b>Barium (Ba)</b>                          | 0.002%max                                           | < 0.002%                 |
| 13  | <b>Readily carbonisable subs.</b>           | passes test                                         | passes test              |
| 14  | <b>Sulphated ash (600°)</b>                 | 0.05%max                                            | 0.03%                    |

**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.