

## **CERTIFICATE OF ANALYSIS**

**PRODUCT:** Citric Acid Anhydrous Powder

**CODE:**

**BATCH NUMBER:** 41000319

**BATCH SIZE:** 3 X 25 Kg = 75 Kg

**DATE OF MANUFACTURE:** 18/10/2024

**BEST BEFORE DATE:** **18/10/2027**

**CUSTOMER PO:** 20241125P06

### **Analytical Data:**

| <b>Attribute</b>                    | <b>Product Specification</b>                                          | <b>Retained Sample</b>                                                | <b>TEST METHOD</b>     |
|-------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------|
| Characters                          | Colourless Translucent Crystals or as White, Fine, Crystalline Powder | Colourless Translucent Crystals or as White, Fine, Crystalline Powder | FCC                    |
| Identification                      | Pass Test                                                             | Passes Test                                                           | EP                     |
| Clarity & Color of Solution         | Pass Test                                                             | Passes Test                                                           | BP                     |
| Content                             | 99.5 – 100.5 %                                                        | 100.0 %                                                               | BP                     |
| Moisture                            | ≤ 0.5 %                                                               | 0.1 %                                                                 | FCC                    |
| Oxalate/Oxalic Acid                 | ≤ 100mg/kg                                                            | < 100mg/kg                                                            | FAO/WHO<br>CCFAS Vol.4 |
| Sulphate                            | ≤ 150 ppm                                                             | < 150 ppm                                                             | BP                     |
| Readily Carbonisable Substances     | ABS ≤ 0.52                                                            | < 0.52                                                                | FCC                    |
|                                     | TRA ≥ 30 %                                                            | >30 %                                                                 |                        |
| Residue on Ignition (Sulphated Ash) | ≤ 0.05 %                                                              | 0.01 %                                                                | FCC                    |
| Heavy Metals                        | ≤ 10 ppm                                                              | <5 ppm                                                                | IP                     |
| Arsenic                             | ≤ 1 mg/kg                                                             | < 0.1 mg/kg                                                           | IP                     |
| Lead                                | ≤ 0.5 mg/kg                                                           | < 0.1 mg/kg                                                           | FCC                    |
| Mercury                             | ≤ 1 mg/kg                                                             | < 0.1 mg/kg                                                           | GB 5009.17             |
| Aluminium                           | ≤ 0.2 ppm                                                             | < 0.2 ppm                                                             | BP                     |
| Isocitric Acid                      | Pass Test                                                             | Passes Test                                                           | JSFA                   |
| Bacterial Endotoxins                | <0.5IU/mg                                                             | <0.5IU/mg                                                             | BP                     |
| Barium                              | Pass Test                                                             | Passes Test                                                           | IP                     |
| Calcium                             | ≤ 200 ppm                                                             | < 200 ppm                                                             | IP                     |
| Iron                                | ≤ 50 ppm                                                              | < 50 ppm                                                              | IP                     |
| Chloride                            | ≤ 50 ppm                                                              | < 50 ppm                                                              | IP                     |
| Mesh Size                           | /                                                                     | 30-100 Mesh                                                           | /                      |

**This document certifies that the quality of this product conforms to our Product Specification.**

**Certified By:** (Technical Manager)

**Date:** 02/12/2024

Document is electronically generated so no signature is required.

This Certificate of Analysis does not relieve the purchaser from undertaking their own test in order to ensure the suitability of this product for its application and to comply with all relevant legal requirements for any goods into which this product is incorporated.