



# SHANDONG ENSIGN INDUSTRY CO.,LTD.

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## Certificate of Analysis

Report NO.:YXITCR-20240131130-01

Date:JAN.25,2024

Product:CITRIC ACID ANHYDROUS 30-100MESH BP/FCC/E330

Invoice No.:FDYL240110A

Molecular Formula: $C_6H_8O_7$

CAS No.:77-92-9

Quantity:44MT

Batch No.:6AX2401025

Production Date:JAN.2024

Shelf Life:36months

| Item                                | Unit  | Quality Standards                                                                                                                                                                                         | Analysis Results |
|-------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Characters                          | -     | White or almost white, crystalline powder, colourless crystals or granules. Odorless, has a strongly acid taste. Very soluble in water, freely soluble in ethanol.very slightly soluble in diethyl ether. | Pass             |
| Identification                      | -     | Pass Test                                                                                                                                                                                                 | Pass             |
| Appearance of solution              | -     | Pass Test                                                                                                                                                                                                 | Pass             |
| Assay                               | %     | 99.5-100.5                                                                                                                                                                                                | 99.9             |
| Water                               | %     | $\leq 0.5$                                                                                                                                                                                                | 0.13             |
| Readily Carbonisable Substances     | -     | Pass Test                                                                                                                                                                                                 | Pass             |
| Sulphated Ash (Residue on Ignition) | %     | $\leq 0.05$                                                                                                                                                                                               | 0.02             |
| Sulfate                             | mg/kg | $\leq 50$                                                                                                                                                                                                 | $< 50$           |
| Oxalate                             | mg/kg | $\leq 50$                                                                                                                                                                                                 | $< 50$           |
| Chloride                            | mg/kg | $\leq 5$                                                                                                                                                                                                  | $< 5$            |
| Lead                                | mg/kg | $\leq 0.1$                                                                                                                                                                                                | $< 0.1$          |
| Arsenic                             | mg/kg | $\leq 0.1$                                                                                                                                                                                                | $< 0.1$          |
| Mercury                             | mg/kg | $\leq 0.1$                                                                                                                                                                                                | $< 0.1$          |
| Aluminium                           | mg/kg | $\leq 0.2$                                                                                                                                                                                                | $< 0.2$          |
| Heavy Metals                        | mg/kg | $\leq 5$                                                                                                                                                                                                  | $< 5$            |
| Bacterial endotoxins                | IU/mg | $< 0.5$                                                                                                                                                                                                   | $< 0.5$          |

Conclusion:The product is in conformity with BP/USP/FCC/E330/ENSIGN.

Approved by:

陈立刚

Reviewed by:



Prepared by:

刘锦菊

Authorized signatory

Analysis date:2024-01-16