

## CERTIFICATE OF ANALYSIS

PRODUCT NAME : Succinic acid

GRADE : Extra Pure

LOT NO. : S0395YG1

CATALOG NO. : 7672-4405

CAS NO. : 110-15-6

Molecular Formula : C<sub>4</sub>H<sub>6</sub>O<sub>4</sub>

Store Temperature : 1~30

| TEST ITEM                          | SPECIFICATION  | TEST RESULT    |
|------------------------------------|----------------|----------------|
| Assay                              | above 99.3 %   | 99.9 %         |
| Residue after ignition(as sulfate) | below 0.05 %   | below 0.05 %   |
| Solubility in water                | passes test    | pass           |
| Ammonium                           | below 30.0 ppm | below 30.0 ppm |
| Chloride(Cl)                       | below 30.0 ppm | below 30.0 ppm |
| Heavy metal (as Pb)                | below 20.0 ppm | below 20.0 ppm |
| Iron(Fe)                           | below 20.0 ppm | below 20.0 ppm |
| Sulfate(SO                         | below 100 ppm  | below 100 ppm  |

**Appearance :** white crystalline powder  
**Identification :**

PASSES TEST

**Test Date :** Jul 10, 2024

**Test By :** H.J. Yu

**Date of Manufacturing :** Jul 10, 2024

**Conclusion :** Pass

**Delivery Date :** Dec 09, 2024

**Certified By :** W.Y. Lee

**Expiry Date :** Jul 09, 2029

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