

# Certificate of Analysis

## HEPES FREE ACID

High Purity Grade

|                                 |  |
|---------------------------------|--|
| <b>Product No.:</b>             | JS0164   |
| <b>Batch No.:</b>               | MLW02252MK   |
| <b>CAS No.:</b>                 | 7365-45-9  |
| <b>Formula:</b>                 | C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S |
| <b>Molecular Weight:</b>        | 238.30   |
| <b>Storage At:</b>              | RT   |
| <b>Quality Release Date:</b>    | 16/Mar/2024  |
| <b>Recommended Retest Date:</b> | 15/Mar/2026  |

| TEST                       | SPECIFICATION            | RESULT   |
|----------------------------|--------------------------|----------|
| Appearance                 | White Crystalline Powder | Complies |
| Assay(Titration,Dry basis) | ≥99.5%                   | 99.9%    |
| Water Content              | ≤0.5%                    | 0.36     |
| Infrared                   | Complies                 | Complies |
| PH 1% Di H <sub>2</sub> O  | 4.8-5.6 (25°C)           | 5.2      |
| Solubility 1M water        | Clear,Colorless Solution | Complies |
| Residue On Ignition        | ≤0.1%                    | Complies |
| A280, 1M water             | ≤0.035                   | 0.030    |
| A260, 1M water             | ≤0.045                   | 0.040    |
| Iron (Fe)                  | ≤5ppm                    | Complies |

|                   |       |          |
|-------------------|-------|----------|
| Heavy metals (Pb) | ≤3ppm | Complies |
|-------------------|-------|----------|

**Clara Chen, Manager**

**Quality Control**

**Hongkong, China**

JSENB(HK) warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. For further inquiries, please contact Technical Service or authorized agent according to the batch bar number of the out-of-box list of the product department. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.