

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-02-15 14:49:09

Date of Next Testing: 2026-02-14 14:49:09

Product Name: **HEPES**

CAS Number: 7365-45-9

Specifications & Purity:  $\geq 99.5\%$ (T)

Lot #: B2212417

SKU #: **H109407****Analysis: 061686**

Storage Temperature: Argon charged

| Parameter   | Limit Values             | Result                   |
|---|--------------------------|--------------------------|
| Water by Karl Fischer   | 0-1 (%)                  | 0.07 %                   |
| Heavy metal (as Pb)   | 0-5 (ppm)                | 0.00 ppm                 |
| Purity (Titration by NaOH)(anhydrous)                               | 99.5-100.5 (%)           | 100.49 %                 |
| UV Absorbance 290nm(33%,H <sub>2</sub> O)                           | 0-0.05                   | 0.03                     |
| Appearance (H109407)  | White Powder or Crystals | White Powder or Crystals |
| Carbon NMR Spectrum   | Conforms to Structure    | Conforms to Structure    |
| Solubility in H <sub>2</sub> O , clear colorless ,500mg/ml in water | pass                     | Pass                     |

John Su  
QA & QC Manager