

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-07 11:15:17

Date of Next Testing: 2027-06-06 11:15:17

Product Name: **HEPES**

CAS Number: 7365-45-9

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

Lot #: F2303281

SKU #: **H109407****Analysis: 182938**

Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|---|--------------------------|--------------------------|
| Water by Karl Fischer | 0-1 (%) | 0.55 % |
| Heavy metal (as Pb) | 0-5 (ppm) | 0.00 ppm |
| UV Absorbance 290nm(33%,H ₂ O) | 0-0.05 | 0.00 |
| Purity (Titration by NaOH)(anhydrous) | 99.5-100.5 (%) | 100.48 % |
| Appearance (H109407) | White Powder or Crystals | White Powder or Crystals |
| Carbon NMR Spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in H ₂ O , clear colorless ,500mg/ml in water | pass | Pass |

John Su
QA & QC Manager