

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-08-10 13:30:36

Date of Next Testing: 2029-08-09 13:30:36

Product Name: **HEPES**

CAS Number: 7365-45-9

Specifications & Purity:  $\geq 99\%$

Lot #: H2504262

SKU #: **H109406**

Version **0**

Analysis #: **553467**

Storage Temperature: Room temperature, Desiccated, Cool

| Parameter                                                      | Limit Values             | Result                   |
|----------------------------------------------------------------|--------------------------|--------------------------|
| Purity(Neutralization titration)                               | 99-101 (%)               | 100.15000 %              |
| Water by Karl Fischer                                          | 0-1 (%)                  | 0.18930 %                |
| UV Absorbance(1mol/L,H <sub>2</sub> O,320nm)                   | 0-0.1                    | 0.04000                  |
| Heavy metal (as Pb)                                            | 0-5 (ppm)                | 2.55470 ppm              |
| UV Absorbance(1mol/L, H <sub>2</sub> O, 250nm)                 | 0-0.25                   | 0.10100                  |
| UV Absorbance(1mol/L,H <sub>2</sub> O,260nm)                   | 0-0.15                   | 0.06500                  |
| Appearance (H109406)                                           | White Powder or Crystals | White Powder or Crystals |
| Infrared spectrum                                              | Conforms to Structure    | Conforms to Structure    |
| Proton NMR spectrum                                            | Conforms to Structure    | Conforms to Structure    |
| Solubility in H <sub>2</sub> O , Colorless and clear(500mg/ml) | pass                     | Pass                     |



John Su  
QA & QC Manager