

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-02-10 11:38:04  
Date of Next Testing: 2029-02-09 11:38:04  
Product Name: **HEPES**  
CAS Number: 7365-45-9  
Specifications & Purity:  $\geq 99\%$   
Lot #: B2506295  
SKU #: **H109406**  
Version: **0**  
Analysis #: **471245**  
Storage Temperature: Room temperature, Desiccated, Cool

Parameter	Limit Values	Result
Purity(Neutralization titration)	99-101 (%)	100.45000 %
Water by Karl Fischer	0-1 (%)	0.03720 %
UV Absorbance(1mol/L,H <sub>2</sub> O,320nm)	0-0.1	0.04400
Heavy metal (as Pb)	0-5 (ppm)	0.00000 ppm
UV Absorbance(1mol/L, H <sub>2</sub> O, 250nm)	0-0.25	0.02000
UV Absorbance(1mol/L,H <sub>2</sub> O,260nm)	0-0.15	0.01000
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