

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-11 11:11:17

Date of Next Testing: 2028-12-10 11:11:17

Product Name: **HEPES**

CAS Number: 7365-45-9

Specifications & Purity: $\geq 99\%$

Lot #: L2409696

SKU #: **H109406**

Version: **0**

Analysis #: **447434**

Storage Temperature: Room temperature, Desiccated, Cool

Parameter	Limit Values	Result
Purity(Neutralization titration)	99-101 (%)	99.89000 %
Water by Karl Fischer	0-1 (%)	0.03630 %
UV Absorbance(1mol/L,H ₂ O,320nm)	0-0.1	0.04500
Heavy metal (as Pb)	0-5 (ppm)	0.00000 ppm
UV Absorbance(1mol/L, H ₂ O, 250nm)	0-0.25	0.12000
UV Absorbance(1mol/L,H ₂ O,260nm)	0-0.15	0.04100
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 ₂ O , Colorless and clear(500mg/ml)	pass	Pass



John Su
QA & QC Manager