

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-11 09:58:10
 Date of Next Testing: 2029-07-10 09:58:10
 Product Name: **HEPES**
 CAS Number: 7365-45-9
 Specifications & Purity: $\geq 99\%$
 Lot #: G2509558
 SKU #: **H109406**
 Version: **0**
 Analysis #: **542014**
 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 ₂ O,320nm)	0-0.1	0.04000
Heavy metal (as Pb)	0-5 (ppm)	2.55470 ppm
UV Absorbance(1mol/L, H ₂ O, 250nm)	0-0.25	0.10100
UV Absorbance(1mol/L,H ₂ 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 ₂ O , Colorless and clear(500mg/ml)	pass	Pass



John Su
QA & QC Manager