

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-14 08:59:14

Date of Next Testing: 2027-12-13 08:59:14

Product Name: **HEPES**

CAS Number: 7365-45-9

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

Lot #: L2308286

SKU #: **H109407****Analysis: 299703**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.30 %
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
Purity (Titration by NaOH)(anhydrous)	99.5-100.5 (%)	100.08 %
UV Absorbance 290nm(33%,H ₂ O)	0-0.05	0.01
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