

Certificate of Analysis

Date of Testing: 2022-08-18 14:58:15
Date of Next Testing: 2026-08-17 14:58:15
Product Name: **HEPES**
CAS Number: 7365-45-9
Specifications & Purity: $\geq 99.5\%$ (T)
Lot #: H2216078
SKU #: **H109407**
Analysis: **092197**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.14 %
Heavy metal (as Pb)	0-5 (ppm)	0.74 ppm
Purity (Titration by NaOH)(anhydrous)	99.5-100.5 (%)	99.75 %
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