

Certificate of Analysis

Date of Testing: 2022-04-02 14:07:08
Date of Next Testing: 2026-04-01 14:07:08
Product Name: **HEPES**
CAS Number: 7365-45-9
Specifications & Purity: $\geq 99.5\%$ (T)
Lot #: C2230045
SKU #: **H109407**
Analysis: **082407**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.08 %
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
Purity (Titration by NaOH)(anhydrous)	99.5-100.5 (%)	100.13 %
UV Absorbance 290nm(33%,H ₂ O)	0-0.05	0.02
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