

Certificate of Analysis

Date of Testing: 2022-07-09 16:40:02

Date of Next Testing: 2026-07-08 16:40:02

Product Name: **HEPES**

CAS Number: 7365-45-9

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

Lot #: G2207264

SKU #: **H109407**

Analysis: **092198**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.15 %
Heavy metal (as Pb)	0-5 (ppm)	0.39 ppm
Purity (Titration by NaOH)(anhydrous)	99.5-100.5 (%)	99.52 %
UV Absorbance 290nm(33%,H2O)	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 H2O , clear colorless ,500mg/ml in water	pass	Pass



John Su
QA & QC Manager