

## Certificate of Analysis

Date of Testing: 2022-05-18 10:29:44  
Date of Next Testing: 2026-05-17 10:29:44  
Product Name: **HEPES**  
CAS Number: 7365-45-9  
Specifications & Purity:  $\geq 99.5\%$ (T)  
Lot #: E2207034  
SKU #: **H109407**  
**Analysis:** **085540**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.17 %
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
Purity (Titration by NaOH)(anhydrous)	99.5-100.5 (%)	100.17 %
UV Absorbance 290nm(33%,H <sub>2</sub> 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 <sub>2</sub> O , clear colorless ,500mg/ml in water	pass	Pass



John Su  
QA & QC Manager