

## Certificate of Analysis

Date of Testing: 2024-06-24 15:36:29  
Date of Next Testing: 2028-06-23 15:36:29  
Product Name: **HEPES**  
CAS Number: 7365-45-9  
Specifications & Purity:  $\geq 99.5\%$ (T)  
Lot #: F2411343  
SKU #: **H109407**  
Version: **0**  
Analysis #: **361625**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.62 %
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
UV Absorbance 290nm(33%,H2O)	0-0.05	0.01
Purity (Titration by NaOH)(anhydrous)	99.5-100.5 (%)	100.18 %
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