

## Certificate of Analysis

Date of Testing: 2023-05-25 17:16:46  
Date of Next Testing: 2027-05-24 17:16:46  
Product Name: **HEPES sodium salt**  
CAS Number: 75277-39-3  
Specifications & Purity:  $\geq 99\%$ (T)  
Lot #: E2319191  
SKU #: **H100304**  
Version: **1**  
Analysis #: **066466**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	4.26 ppm
Purity (Titration by H <sub>2</sub> SO <sub>4</sub> ) (anhydrous)	99-100 (%)	99.50 %
Water by Karl Fischer	0-7 (%)	1.20 %
UV Absorbance 260nm(c = 1 M)	0-0.4	0.01
UV Absorbance 280nm(c = 1 M)	0-0.2	0.12
Appearance (H100304)	white crystalline powder	white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Very Faint Yellow, Clear, at 500 mg/ml	pass	Pass



John Su  
QA & QC Manager