

## Certificate of Analysis

Date of Testing: 2023-06-19 15:12:47  
Date of Next Testing: 2027-06-18 15:12:47  
Product Name: **MOPS**  
CAS Number: 1132-61-2  
Specifications & Purity:  $\geq 99.5\%$  (T)  
Lot #: F2315277  
SKU #: **M105135**  
**Analysis:** **220818**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.32 %
UV Absorbance 290nm(33%,H2O)	0-0.05	0.01
Purity (Titration by NaOH)	99.5-100.5 (%)	99.55 %
Heavy metal (as Pb)	0-5 (ppm)	2.00 ppm
Appearance (M105135)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless and clear(500mg/ml)	pass	Pass



John Su  
QA & QC Manager