



## Certificate of Analysis

### MES Monohydrate Free Acid 99%

**Product #:** MM1001  
**Lot #:** Typical  
**CAS #:** 145224-94-8  
**Molecular Formula:**  $C_6H_{13}NO_4S \cdot H_2O$   
**Molecular Weight:** 213.25  
**Storage:** 15°C to 30°C

This product does not contain animal origin material and was not exposed to animal origin material during the manufacturing process.

Test	Specification
Appearance	White crystalline powder
Assay (by titration dried basis)	≥ 99.0%
Identification (by IR)	Matches reference
Loss on drying (110°C)	≤ 9.5%
pH (1% solution in H <sub>2</sub> O)	2.50 to 4.00
pKa (20°C)	6.05 to 6.25
Solubility (10% solution in H <sub>2</sub> O)	Clear, complete and colorless
Heavy metals (as Pb)	≤ 15 ppm
Chloride (Cl)	≤ 0.01%
Sulfate (SO <sub>4</sub> )	≤ 0.05%

Approved By:

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