

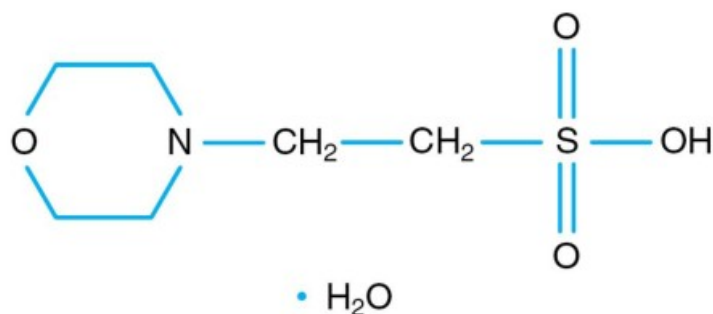


# 1.0 M MES monohydrate pH 6.5 - 100 ml

Crystallization grade MES monohydrate for formulating screens or for optimization

## Product codes:

Reference: HR 2787



## Product gallery:



## Product description:

- Sterile filtered
- Formulated in Type 1+ ultrapure water: 18.2 megaohm-cm resistivity at 25°C, 5 ppb Total Organic Carbon, bacteria free (1 Bacteria (CFU/ml)), pyrogen free (0.03 Endotoxin (EU/ml)), RNase-free ( 0.01 ng/mL) and DNase-free ( 4 pg/μL)

## MES monohydrate

Synonyms: MES or 2-(N-morpholino)ethanesulfonic acid or 4-morpholineethanesulfonic acid monohydrate

C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S • H<sub>2</sub>O

Mr 213.25

CAS Number [145224-94-8]

EC Number 224-632-3

Beilstein Registry Number 329824236

RTECS QE3479500

MDL Number MFCD00149409

Purity ? 99.5%

pK<sub>a</sub> 6.1 at 25°C

Solutions are stable at 2-8°C for months. Autoclaving is not recommended for any sulfonic acid buffer. When MES solutions are autoclaved, they turn yellow (although pH does not change



measurably). The identity of the yellow breakdown product is unknown.  
When MES solutions are stored at room temperature, they can turn yellow within six months.

Useful pH range of MES 5.2 - 7.1

Titrate HR2-587 to the desired pH using NaOH

HR2-587 Measured pH Range: 3.2 - 3.4 at 25°C

HR2-587 Measured Conductivity Range: 166.4 - 2440  $\mu$ S/cm at 25°C

HR2-587 Measured Refractive Index Range: 1.34655 - 1.34731 at 20°C

HR2-787 has been titrated to pH 6.5 using NaOH

HR2-787 Measured Conductivity Range: 19.2 - 25.6 mS/cm at 25°C

HR2-787 Measured Refractive Index Range: 1.36113 - 1.36251 at 20°C

HR2-943-07 - MES monohydrate pH 5.8 - 1.0 M solution is a Custom Shop reagent and is used to reproduce and optimize Crystallization Reagents for use with the Silver Bullets kit.

Impurities:

Endotoxin ? 50 EU/g

Yeast and Mold ? 100 CFU/g

Bioburden ? 100 CFU/g

Al ? 5.0 ppm

As ? 3.0 ppm

Ba ? 5.0 ppm

Bi ? 5.0 ppm

Ca ? 20.0 ppm

Cd ? 5.0 ppm

Co ? 5.0 ppm

Cr ? 5.0 ppm

Cu ? 5.0 ppm

Fe ? 5.0 ppm

Li ? 5.0 ppm

Mg ? 5.0 ppm

Mn ? 5.0 ppm

Mo ? 5.0 ppm

Na ? 20.0 ppm

Ni ? 5.0 ppm

Pb ? 5.0 ppm

Sb ? 5.0 ppm

Zn ? 5.0 ppm

Per maggiori informazioni visita il sito <https://hamptonresearch.com/>

**Product features:**



---

CRF - TIPO: MES monohydrate Buffer