

## MES HYDRATE

### GMP, EXCIPIENT

CAS #: 1266615-59-1

Formula:  $C_6H_{13}NO_4S \cdot xH_2O$

F.W.: 195.24 g/mol

### MESH-3201

### BIO EXCIPIENT GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (20%)	290 nm	$\leq 0.05$ a.u.
Appearance and Color		White Crystalline Powder
Assay, Anhydrous Basis		$\geq 99.5\%$
Solubility	Solubility (0.1M)	Colorless
	Solubility (20% w/v)	Clear
Identification, IR		Conforms to Reference Standard
Trace Metals	Silver (Ag)	Report
	Arsenic (As)	Report
	Bismuth (Bi)	Report
	Cadmium (Cd)	Report
	Copper (Cu)	Report
	Mercury (Hg)	Report
	Molybdenum (Mo)	Report
	Lead (Pb)	Report
	Antimony (Sb)	Report
	Tin (Sn)	Report
	Sum	$\leq 5$ ppm
pH (0.5M)		2.5 – 4.0
pH (1.0M)		2.7 – 3.7
PVS Limit Test		$\leq 1$ ppm
Water, KF		$\leq 9\%$

### General Product Overview

MES Hydrate is a zwitterionic buffer that is not absorbed through cell membranes and is virtually transparent in UV light. MES is a buffering agent used in many biological and biochemical applications. It is also used as a running buffer for denaturing gel electrophoresis. The characteristics of low UV absorptivity, minimal reactivity, stable pH and solubility in water allow MES Hydrate to be a Good's buffer.

### Industry Application

Suitable for use as a cGMP chemical in pharmaceutical manufacturing processes and products.

### Key Product Features

- The manufacturing of MES Hydrate, MESH-3201 is performed at BioSpectra's Bangor, PA facility.
- Appears as a white crystalline powder
- Manufactured in accordance with ICH Q7
- Manufactured in an enzyme free, hormone free and animal free environment
- Contains no known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: 4-Morpholineethanesulfonic Acid Hydrate; 2-(N-Morpholino) ethanesulfonic Acid

### Storage and Shipping Conditions

Refer to SDS.

### Standard Shelf Life Policy

Unless otherwise noted on the Shelf-Life Statement and CoA, this product has a 2-year retest date supported by a 3-year ICH Q1 Stability Study (if one is completed).

### Package Sizes

10kg, 25kg and 50kg pails

[Click here to view SDS, CoAs and other supporting regulatory documents on our website.](#)

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