

# **GMP BIOTECH PRODUCT**

# **MES HYDRATE**

**BIOBURDEN TESTED, GMP** 

CAS #: 1266615-59-1

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

F.W.: 195.24 g/mol

# **MESH-4250**

## **BIO PHARMA GRADE**

Analysis	SPECIFICATIONS
LAhsorhance (() 1M)	60 nm < = 0.04 a.u. 80 nm < = 0.02 a.u.
Appearance	White Powder
Assay, Anhydrous Basis	> = 99.5%
Cytotoxicity (50%)	Passes Test
Enzymes 	Clease None Detected CKase None Detected RNase None Detected otease None Detected
Identification, IR	Conforms to Reference Standard
pH (1%)	3.5 - 4.1
Solubility (0.1M)	Clear and Colorless
Microbial Content	TAMC < = 100 CFU/g TYMC < = 100 CFU/g
Bariur Bismu Cadmiur Calciur Chromiu Trace Metals Iro Lea Lithiu Manganese Magnesiun Molybdenun Nick Sodiur Zin	Section   Sect
Water, KF	5.0 - 8.9%

**Country of Origin: USA** 

# Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, reagent grade product, purified under full cGMP conditions. 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 biopharmaceutical and biotechnological applications. The characteristics of low UV absorptivity, minimal reactivity, stable pH and solubility in water allow MES Hydrate to be used as a Good's buffer.

#### **General Product Description**

- Appears as a white crystalline product
- Manufactured under an IPEC Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- 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/derivatives.
- Is not subject to genetic modification
- Synonyms: 2-(N-Morpholino) ethane sulfonic acid,
   4-Morpholineethanesulfonic acid monohydrate
- Visit the product page on our website (www.biospectra.us) for additional information, supporting regulatory documents, and CofAs.

# **Storage and Shipping Conditions** Refer to SDS.

#### **Standard Shelf Life Policy**

Each Certificate of Analysis will contain a 2-year retest/recertification date supported by a 3-year ICH Q1 Stability Study (if one is completed).

### **Package Sizes**

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg

#### **Standard Lead Time**

1-2 weeks

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