

GMP BIOTECH PRODUCT

MES MONOHYDRATE

CAS #: 145224-94-8 Formula: C₆H₁₃NO₄S H₂O F.W.: 213.25 g/mol

MESM-4221

BIO PHARMA GRADE

	Analysis		SPECIFICATIONS
	Absorbance (1M)	260 nm 280 nm	< = 0.1000 a.u. < = 0.1000 a.u.
	Appearance and Color		White Crystals
	Assay		> = 99.0%
	Chloride		< = 50 ppm
	Color (1M, Alkaline)		Colorless
	Enzymes	DNase RNase Protease	None Detected None Detected None Detected
	Identification, IR		Conforms to Reference Standard
	Loss on Drying, 130°C		7 - 10%
	pH (5%)		3.1 - 3.5
	pH (0.5M)		2.5 - 4.5
	рКа		5.9 - 6.3
	Residue on Ignition		< = 0.05%
7	Sulfate		< = 50 ppm
	Ca Cadr Cadr Cc Cc Chro Trace Metals Magne Manga I Pota	rsenic (As) Icium (Ca) mium (Cd) robalt (Co) ropper (Cu) mium (Cr) Iron (Fe) Lead (Pb) sium (Mg) nese (Mn) Nickel (Ni) rssium (K) dium (Na) Zinc (Zn)	< = 2 ppm < = 50 ppm < = 5 ppm < = 5 ppm < = 2 ppm < = 5 ppm < = 2 ppm < = 2 ppm < = 5 ppm < = 5 ppm < = 5 ppm < = 5 ppm < = 50 ppm < = 50 ppm < = 5 ppm
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Country of Origin: USA

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, reagent grade product, purified under cGMP conditions. MES Monohydrate 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 it to be used as a Good's buffer.

General Product Description

- Appears as a white crystalline product
- Manufactured in accordance with IPEC
- 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/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 (<u>www.biospectra.us</u>) for additional information, supporting regulatory documents, and CoAs.

Storage and Shipping Conditions Refer to SDS.

Standard Shelf Life Policy

Each Certificate of Analysis will contain a 2-year retest 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

2-4 weeks

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