

GMP BIOTECH PRODUCT

MES MONOHYDRATE

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

MESM-4221

BIO PHARMA GRADE

ANALYCIC		S D E O J E I O N C
Analysis	0.00	SPECIFICATIONS
Absorbance (1M)	260 nm 280 nm	< = 0.1000 a.u. < = 0.1000 a.u.
	260 11111	
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
pKa		5.9 - 6.3
Residue on Ignition		< = 0.05%
Sulfate		< = 50 ppm
Ca Ch Trace Metals Mag Man	Arsenic (As) Calcium (Ca) admium (Cd) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) nesium (Mg) ganese (Mn) Nickel (Ni) otassium (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

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 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 MES Monohydrate 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 ConditionsRefer 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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