BI SPECTRA Bulk cGMP Fine Chemical Manufacturer

GMP BIOTECH PRODUCT

MES MONOHYDRATE BIOTECH, GMP

CAS #: 145224-94-8

Formula: C₆H₁₃NO₄S H₂O

F.W.: 213.25 g/mol

MESM-4221

BIO PHARMA GRADE

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	ANALYSIS		SPECIFICATIONS	
	Absorbance (1M)	260 nm	<u><</u> 0.1000 a.u.	
		280 nm	<u><</u> 0.1000 a.u.	
	Assay		<u>></u> 99.0%	
	Appearance and Color		White / Crystals	
	Chloride		<u><</u> 50 ppm	
	Color (1M, Alkaline)		Colorless	
	Enzymes	DNase RNase	None Detected None Detected	
		Protease	None Detected	
	Heavy Metals (as Pb)		<u><</u> 2 ppm	
	Identification, IR		Conforms to Reference Standard	
	Loss on Drying @ 130ºC pH (5% solution) pH (0.5M)		7 - 10%	
			3.1 - 3.5	
			2.5 - 4.5	
	рК _а		5.9 - 6.3	
	Residue on Ignition		<u><</u> 0.05%	
	Sulfate		<u><</u> 50 ppm	
/		rsenic (As)	<u><</u> 2 ppm	
		alcium (Ca)	<u><</u> 50 ppm	
		Imium (Cd)	<u><</u> 5 ppm	
	Ch	Cobalt (Co)	<u><</u> 5 ppm	
		copper (Cu) omium (Cr)	<u><</u> 2 ppm <u><</u> 5 ppm	
	Chit	Iron (Fe)	<u><</u> 2 ppm	
	Trace Metals	Lead (Pb)	<u><</u> 2 ppm	
	Magne	esium (Mg)	<u><</u> 5 ppm	
		anese (Mn)	<u> </u>	
	U	Nickel (Ni)	<u><</u> 5 ppm	
	Pot	assium (K)	<u><</u> 50 ppm	
	So	odium (Na)	<u><</u> 50 ppm	
	0	Zinc (Zn)	<u><</u> 5 ppm	
	Country of Origin: USA			

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is used as a high purity, GMP, 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 ICH-Q7 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