

MOPS, FREE ACID

BIOTECH, GMP

CAS #: 1132-61-2

Formula: $C_7H_{15}NO_4S$

F.W.: 209.26 g/mol

MOPS-4221

BIO PHARMA GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (0.1M)	250 nm	≤ 0.020 a.u.
	260 nm	≤ 0.020 a.u.
	280 nm	≤ 0.020 a.u.
Appearance and Color		White / Crystals
Assay		$\geq 99.5\%$
Chloride		≤ 50 ppm
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Identification, IR		Conforms to Reference Standard
Loss on Drying		$\leq 1.0\%$
pH (1% solution)		3.0 – 4.5
pH (2.5M)		2.5 – 4.5
pK _a		7.0 – 7.5
Residue on Ignition		$\leq 0.1\%$
Solubility (5%)		Passes Test
Sulfate		≤ 50 ppm
Trace Metals	Aluminum (Al)	≤ 5 ppm
	Arsenic (As)	≤ 5 ppm
	Bismuth (Bi)	≤ 5 ppm
	Calcium (Ca)	≤ 5 ppm
	Chromium (Cr)	≤ 5 ppm
	Copper (Cu)	≤ 5 ppm
	Iron (Fe)	≤ 5 ppm
	Lead (Pb)	≤ 5 ppm
	Lithium (Li)	≤ 5 ppm
	Magnesium (Mg)	≤ 5 ppm
	Molybdenum (Mo)	≤ 5 ppm
	Nickel (Ni)	≤ 5 ppm
Water, KF		$\leq 0.1\%$

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

MOPS, Free Acid Biotech is a high purity, GMP Reagent grade product, purified under full cGMP conditions. MOPS is a zwitterionic buffer used as a running buffer for denaturing gel electrophoresis and as a buffering agent in many biological and biochemical applications. MOPS can be used as a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.

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: 3-(N-Morpholino) propane sulfonic acid, 4-Morpholineethanesulfonic acid
- 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

Country of Origin: USA