

#### **GMP BIOTECH PRODUCT**

# HEPES, FREE ACID LBLE, GMP

CAS #: 7365-45-9 Formula: C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S F.W.: 238.30 g/mol

#### HEPE-4250

#### **BIO PHARMA GRADE**

ПЕРЕ-4230			
	Analysis		SPECIFICATIONS
		250 nm	< = 0.0500 a.u.
	Absorbance (0.1M)	260 nm	< = 0.0500 a.u.
		280 nm	< = 0.0800 a.u.
	Absorbance (0.05M)	250 nm	< = 0.0500 a.u.
		260 nm 280 nm	< = 0.0500 a.u. < = 0.0800 a.u.
	Appearance and Color Assay, Dried Basis		White Crystals
			> = 99.5%
	Chloride		< = 50 ppm
	Endotoxin		< = 5 EU/g
		DNase	None Detected
	Enzymes	RNase	None Detected
		Protease	None Detected
į	Identification, IR		Conforms to Reference Standard
	Insoluble Matter		< = 0.01%
	Loss on Drying		< = 0.5%
	Microbial Content TAMC TYMC		< = 100 CFU/g
١			< = 100 CFU/g
	pH (5%)		5.0 - 6.5
	pK <sub>a</sub> Residue on Ignition		7.45 – 7.65
Ź			< = 0.1%
	Solubility Solubility (5%) Solubility (0.05M)		Passes Test
			Passes Test
	Sulfate		< = 50 ppm
		Arsenic (As)	< = 5 ppm
	Aluminum (A		< = 5 ppm
		ismuth (Bi) alcium (Ca)	< = 5 ppm < = 10 ppm
		Copper (Cu)	< = 5 ppm
		Iron (Fe)	< = 5 ppm
		Lead (Pb)	< = 1 ppm
	Lithium (Li) Molybdenum (Mo)		< = 5 ppm
			< = 5 ppm
	5	Nickel (Ni)	< = 5 ppm
		assium (K)	< = 50 ppm
	Water, KF		< = 0.1%

## Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, reagent grade product, purified under cGMP conditions. HEPES, Free Acid is a zwitterionic buffer used to maintain pH of media used in cell cultures. It is one of Good's twelve buffers that has a pKa value similar to its pH value, making it an ideal buffer for pH maintenance. HEPES is 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 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 or derivatives.
- Is not subject to genetic modification
- Synonyms: N-(2-Hydroxyethyl) Piperazine-N'-2-Ethanesulfonic Acid, 4-(2-Hydroxyethyl) Piperazine-1-Ethanesulfonic Acid
- Visit the product page on our website (www.biospectra.us) 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

**Country of Origin: USA** 

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