

Certificate of Analysis

Name of Product HEPES-MB grade
Manufacturer Proteogenixx, Pearl Business Park, Netaji Subhash Palace, New Delhi
110035, India
Manufacturing Date 04-03-2025
Expiry Date 04-03-2030

Product Number : PX-BF-201
Batch Number : PBF2012502
CAS Number : 7365-45-9
Chemical Name : 4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid
Chemical Formula : $C_8H_{18}N_2O_4S$
Mol. Wt. : 238.30 g/mol

Quality Control Assessment

Parameter	Property	QC Result
Appearance (Color)	Colourless or White	Pass
Appearance (Form)	Crystals or Powder	Pass
Solubility (Color)	Colourless	Pass
Solubility (Turbidity)	Clear	Pass
1H NMR	Conforms to Structure	Pass
pH range	5.0 - 6.5	5.9
DNases	None Detected	Pass
RNases	None Detected	Pass
Protease	None Detected	Pass
Water (K.F.)	≤ 0.1 %	0.06%
Titration (NaOH)	99.5% - 100.5%	99.9%
Metal Trace Analysis (ICP)	Corresponds to Requirements	
Aluminium	< 5 mg/kg	< 5 mg/kg
Barium	< 5 mg/kg	< 5 mg/kg

Release Date: 10-03-2025

Product Name: HEPES Buffer

Product Code: PX-BF-201

<https://proteogenixx.in>

Certificate of Analysis

Parameter	Property	QC Result
Bismuth	< 5 mg/kg	< 5 mg/kg
Calcium	< 10 mg/kg	< 10 mg/kg
Cadmium	< 5 mg/kg	< 5 mg/kg
Cobalt	< 5 mg/kg	< 5 mg/kg
Chromium	< 5 mg/kg	< 5 mg/kg
Copper	< 5 mg/kg	< 5 mg/kg
Iron	< 5 mg/kg	< 5 mg/kg
Potassium	< 50 mg/kg	< 50 mg/kg
Lithium	< 5 mg/kg	< 5 mg/kg
Magnesium	< 5 mg/kg	< 5 mg/kg
Manganese	< 5 mg/kg	< 5 mg/kg
Molybdenum	< 5 mg/kg	< 5 mg/kg
Sodium	< 50 mg/kg	< 50 mg/kg
Nickle	< 5 mg/kg	< 5 mg/kg
Lead	< 5 mg/kg	< 5 mg/kg
Zinc	< 5 mg/kg	< 5 mg/kg
Arsenic	< 0.5 mg/kg	< 0.5 mg/kg
Chloride	< 50 mg/kg	< 50 mg/kg
Sulfate	< 50 mg/kg	< 50 mg/kg
UV Absorbance at 260nm	< 0.04	0.02
UV Absorbance at 280nm	< 0.04	0.02

Storage Recommendations

Release Date: 10-03-2025

Product Code: PX-BF-201

Product Name: HEPES Buffer

<https://proteogenix.in>

Certificate of Analysis

Store at Room Temperature.

Test Conducted by Dr. Megha Kaushik

Testing Date 10-03-2025

Authorized Signature

Dr. Megha Kaushik
Chief Scientific Officer
Proteogenixx

Disclaimer: This certificate certifies that the product meets the outlined specifications. We are committed to ensure that our products meet the highest quality standards, and we stand behind the efficacy and reliability of our offerings. If you have any questions or require further information, please reach out at technical services. Actual results may differ based on experimental techniques and sample types. Users should perform their own validations tailored to their specific use case.

Release Date: 10-03-2025
Product Code: PX-BF-201

Product Name: HEPES Buffer