

Certificate of Analysis

Name of Product	HEPES-MB grade
Manufacturer	Proteogenixx, Pearl Business Park, Netaji Subhash Palace, New Delhi
Manufacturing Date	110035, India
Expiry 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 ₈ H ₁₈ N ₂ O ₄ S
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 Code:** PX-BF-201**Product Name:** HEPES Buffer<https://proteogenixx.in>

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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

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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.