

## Certificate of Analysis

Name of Product : MES  
Manufacturer : Proteogenix, Pearls Business Park, Netaji Subhash Palace, New Delhi 110034, India  
Manufacturing Date : 10-04-2025  
Expiry Date : 10-04-2030

Product Number : PX-BF-601  
Batch Number : PBF6012502  
CAS Number : 4432-31-9  
Chemical Name : 2-(N-morpholino) ethanesulfonic acid  
Chemical Formula : C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S  
Mol. Wt. : 195.24 g/mol

## Quality Control Assessment

Parameter	Property	QC Result
Appearance (Color)	White	Pass
Appearance (Form)	Powder	Pass
Solubility (Colour)	Colourless	Pass
Solubility (Turbid)	Clear	Pass
<sup>1</sup> H NMR	Conforms to structure	Pass
pH range	3.5 – 5.0	3.76
DNases	None Detected	Pass
RNases	None Detected	Pass
Protease	None Detected	Pass
Water (K.F.)	<= 1 %	Pass
Titration (NaOH)	>=99.5%	100.2%
Metal Trace Analysis (ICP)	Corresponds to Requirements	
Aluminum	≤ 0.0005 %	≤ 0.0005 %
Barium	≤ 0.0005 %	≤ 0.0005 %

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Parameter	Property	QC Result
Bismuth	≤ 0.0005 %	≤ 0.0005 %
Calcium	≤ 0.002 %	≤ 0.002 %
Cadmium	≤ 0.0005 %	≤ 0.0005 %
Cobalt	≤ 0.0005 %	≤ 0.0005 %
Chromium	≤ 0.0005 %	≤ 0.0005 %
Copper	≤ 0.0005 %	≤ 0.0005 %
Iron	≤ 0.0005 %	≤ 0.0005 %
Potassium	≤ 0.005 %	≤ 0.005 %
Lithium	≤ 0.0005 %	≤ 0.0005 %
Magnesium	≤ 0.0005 %	≤ 0.0005 %
Manganese	≤ 0.0005 %	≤ 0.0005 %
Molybdenum	≤ 0.0005 %	≤ 0.0005 %
Sodium	≤ 0.005 %	≤ 0.005 %
Nickle	≤ 0.0005 %	≤ 0.0005 %
Lead	≤ 0.0005 %	≤ 0.0005 %
Zinc	≤ 0.0005 %	≤ 0.0005 %
UV Absorbance at 260nm	≤ 0.025	0.002
UV Absorbance at 280nm	≤ 0.020	0.001

**Storage Recommendations**

Store at Room Temperature.

Test Conducted by

Dr. Megha Kaushik

Testing Date

20-04-2025

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## Authorized Signature



Dr. Megha Kaushik  
Chief Scientific Officer  
Proteogenix

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**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.

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