Certificate of Analysis

Name of Product	Tris Base-MB grade
Manufacturer	Proteogenixx, Pearl Business Park, Netaji Subhash Palace, New Delhi 110035, India
Manufacturing Date	15-04-2025
Expiry Date	15-04-2030

Product Number	:	**PX-BF-101**
Batch Number	:	**PBF1012502**
CAS Number	:	**77-86-1**
Chemical Name	:	**tris(hydroxymethyl)aminomethane**
Chemical Formula	:	**C4H11NO3**
Mol. Wt.	:	**121.14 g/mol**

Quality Control Assessment

Parameter	Property	QC Result
Appearance (Color)	Colourless or White	Pass
Appearance (Form)	Crystals or Powder	Pass
Melting Point	168°C – 172°C	170 °C
pH range	10.00-11.50	10.3
1H NMR	Conforms to Structure	Pass
DNases	None Detected	Pass
RNases	None Detected	Pass
Protease	None Detected	Pass
Water (K.F.)	<=2.00 %	1.45%
Titration (HCl)	99.5% - 100.5%	110.1%
Metal Trace Analysis (ICP)	Corresponds to Requirements	
Aluminium	< 5 mg/kg	< 5 mg/kg
Barium	< 5 mg/kg	< 5 mg/kg
Bismuth	< 5 mg/kg	< 5 mg/kg

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Parameter	Property	QC Result
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
UV Absorbance at 260nm	< 0.10	0.01
UV Absorbance at 280nm	<0.08	0.01

Storage Recommendations
Store at Room Temperature.

Test Conducted by **Dr. Megha Kaushik** **Testing Date** 21-04-2025

Release Date: 21-04-2025 **Product Name:** Tris Base Buffer
Product Code: PX-BF-101

Certificate of Analysis

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: 21-04-2025 **Product Name:** Tris Base Buffer
Product Code: PX-BF-101