

**Certificate of Analysis**

**Name of Product** : Tris Base  
**Manufacturer** : Proteogenix, Pearls Business Park, Netaji Subhash Palace, New Delhi 110034, 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      |
| <sup>1</sup> H 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%    |
| <b>Metal Trace Analysis (ICP)</b> | 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**

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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.