

3050 Spruce Street, Saint Louis, MO 63103, USA

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## Product Specification

Product Name:

Trizma® base – BioPerformance Certified, meets EP, USP testing specifications, suitable for cell culture, ≥99.9% (titration)

Product Number:

T6066

CAS Number:

77-86-1

MDL:

MFCD00004679

Formula:

C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>

Formula Weight:

121.14 g/mol



TEST	Specification
ICP-MS (Total: Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn)	≤ 2 ppm
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity) 200 g plus 300 ml of H <sub>2</sub> O	Clear
Solubility (Color)	Colorless
Solubility (Turbidity) 2.5 g plus 50 ml of CO <sub>2</sub> -Free H <sub>2</sub> O (EP)	Clear
Water (by Karl Fischer)	≤ 0.2 %
Loss on Drying (EP)	≤ 0.5 %
Loss on Drying (USP)	≤ 1.0 %
Initial Melting Point	≥ 168 °C
Final Melting Point	≤ 172 °C
UV Absorbance 290nm 40% (w/w)	≤ 0.05
UV Absorbance 260nm 1 M	≤ 0.06
UV Absorbance 280nm 1 M	≤ 0.06
Iron (Fe) ICP atomic emission	≤ 1 ppm

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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TEST	Specification
pH (5% in water)	10.0 - 11.5
Titration with H <sub>2</sub> SO <sub>4</sub> (Anhydrous)	≥ 99.9 %
Titration with HCl (dry basis)	99.0 - 100.5 %
Identity Test A (USP)	Pass
Identity Test C (EP)	Pass
Identity Test B (EP)	Pass
Identity Test B (USP)	Pass
Identity Test C (USP)	Pass
Related Substances	Pass
Chloride (Cl)	< = 100 ppm
Residue on ignition (Ash)	≤ 0.1 %
Suitability Suitable for use in electrophoresis	Suitable
DNAse, Exonuclease Detection	None Detected
NICKase, Endonuclease Detection	None Detected
RNAse Detection	None Detected
Protease Detection	None Detected
Endotoxin Level	≤ 1 EU/mg
Total Count Aerobic, Yeast, plus Mold	≤ 100 CFU/g
Cell Culture Test	Pass

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**TEST****Specification**

Residual Solvents

Meets Requirements

Based on the knowledge of the manufacturing process there is no potential for the specific solvents to be present. The material, if tested, will comply with the current USP requirements.

Recommended Retest Period

6 years

Specification: PRD.7.ZQ5.10000007654

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