

3050 Spruce Street, Saint Louis, MO 63103, USA

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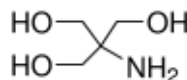
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Trizma® base - ≥99.9% (titration), crystalline

Product Number: T4661
Batch Number: SLBZ6763
Brand: SIGMA
CAS Number: 77-86-1
MDL Number: MFCD00004679
Formula: C₄H₁₁NO₃
Formula Weight: 121.14 g/mol
Quality Release Date: 09 OCT 2018
Recommended Retest Date: OCT 2024



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystalline Powder	Crystalline Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
400 g plus 600 ml of H ₂ O		
UV Absorbance 290nm	≤ 0.05	0.03
40% (w/w)		
Water (by Karl Fischer)	≤ 0.2 %	0.1 %
Titration with H ₂ SO ₄	≥ 99.9 %	99.9 %
Iron (Fe)	< = 5 ppm	< 5 ppm
Insoluble	< = 0.005%	< = 0.005%
Identity by IR	Conforms	Conforms
Compares properly to spectrum 2,0061C in the Sigma Library of FT-IR Spectra, Edition I.		
Identity Test B (USP)	Conforms	Conforms
Identity Test C (USP)	Conforms	Conforms
pH	10.0 - 11.5	10.7
5% solution		
Initial Melting Point	≥ 168 °C	171 °C
Final Melting Point	≤ 172 °C	172 °C
Loss on Drying	≤ 1.0 %	0.0 %
Residue on ignition (Ash)	≤ 0.1 %	0.0 %

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. 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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Batch Number: SLBZ6763

Test	Specification	Result
Heavy Metals (as Lead)	< = 2 ppm	< = 2 ppm
Titration with HCl	99.0 - 101.0 %	99.9 %
Residual Solvents	Meets Requirements	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.		



Rodney Burbach, Manager
Analytical Services
St. Louis, Missouri US

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