

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

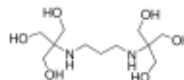
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

BIS-TRIS propane - BioXtra, ≥99.0% (titration)

Product Number: B9410
Batch Number: SLCB7821
Brand: SIGMA
CAS Number: 64431-96-5
MDL Number: MFCD00004689
Formula: C₁₁H₂₆N₂O₆
Formula Weight: 282.33 g/mol
Quality Release Date: 02 APR 2019
Recommended Retest Date: JAN 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
1 M in H ₂ O		
Water (by Karl Fischer)	≤ 0.2 %	0.0 %
Ammonia (NH ₄)	≤ 0.05 %	0.04 %
Residue on ignition (Ash)	≤ 0.1 %	0.0 %
Sulfate (SO ₄)	≤ 0.05 %	< 0.01 %
Chloride (Cl)	≤ 0.05 %	< 0.01 %
Insoluble Matter	≤ 0.1 %	0.0 %
Aluminum (Al)	≤ 0.0005 %	< 0.0005 %
Phosphorus (P)	≤ 0.005 %	< 0.005 %
Lead (Pb)	≤ 0.001 %	< 0.001 %
Calcium (Ca)	≤ 0.0005 %	< 0.0005 %
Sodium (Na)	≤ 0.005 %	< 0.005 %
Magnesium (Mg)	≤ 0.0005 %	< 0.0005 %
Iron (Fe)	≤ 0.0005 %	< 0.0005 %
Copper (Cu)	≤ 0.0005 %	< 0.0005 %
Zinc (Zn)	≤ 0.0005 %	< 0.0005 %
Potassium (K)	≤ 0.005 %	< 0.005 %

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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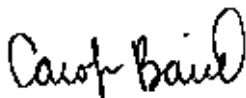
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Certificate of Analysis

Product Number: B9410
Batch Number: SLCB7821

Test	Specification	Result
pH	10.0 - 12.0	11.2
C = 1 M		
A260 UV Absorption	≤ 0.1	0.0
C = 1 M in H ₂ O		
A280 UV Absorption	≤ 0.05	0.01
C = 1 M in H ₂ O		
Infrared spectrum	Conforms to Structure	Conforms
¹ H NMR Impurity	≤ 0.5 %	0.0 %
Tris (Hydroxymethyl) Aminomethane		
Titration with H ₂ SO ₄ (anhydrous)	≥ 99.0 %	100.0 %



Carolyn Baird, Supervisor
Quality Assurance
St. Louis, Missouri US

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