



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: Bis-Tris Propane, UltraPure_
Catalog Number: FC0034_
Lot: QR13422_

Formula: C₁₁H₂₆N₂O₆

CAS #: 64431-96-5

Physical Description: White Crystalline Powder

Formula Weight: 282.34

Storage: 15 - 30°C

Test	Specification	Result
Identity Test (FTIR)	Conforms to reference	Conforms to reference
Purity	#99.5%	99.94%
Solution (0.1 M in water)	Clear and colorless	Clear and colorless
UV (0.1M in water) 280 nm 400 nm	≤0.15 ≤0.50	0.022 0.006
Melting Point	162 – 165°C	162.2 - 162.8°C
Loss on drying	#1%	0.01%
pH (1% aq soln)	10.4 – 11.0	10.79
Residue on Ignition	#0.1%	0.07%
Aluminium (Al)	#5 ppm	0.070 ppm
Lead (Pb)	#10 ppm	0.18 ppm
Copper (Cu)	#5 ppm	0.009 ppm
Zinc (Zn)	#5 ppm	0.151 ppm
Calcium (Ca)	#5 ppm	1.151 ppm
Magnesium (Mg)	#5 ppm	0.097 ppm
Sodium (Na)	#50 ppm	32.221 ppm
Iron (Fe)	#5 ppm	1.100 ppm

Potassium (K)	#50 ppm	0.047 ppm
Endotoxin	#50 EU/g	<12.5 EU/g
Total Aerobic Microbial Count	#100 cfu/g	50 cfu/g
Total Yeast and Mold	#100 cfu/g	<10 cfu/g
RNase	Negative	Negative
DNase	Negative	Negative
Protease	Negative	Negative
Recommended Retest Date	MM/DD/YEAR	10/29/2018

Heavy metals: <5 ppm

J Huang

02/22/2017 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)