

**MP Biomedicals, LLC**29525 Fountain Parkway  
Solon, Ohio 44139Telephone: 440/337-1200  
Toll Free: 800/854-0530Fax: 440/337-1180  
web: www.mpbio.com

## Certificate of Analysis

**Product Description:** Bis-Tris Propane**Catalog Number:** 180943**Lot:** Q4251**Formula:**  $C_{11}H_{26}N_2O_6$ **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	#99.0%	100.03%
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	0.043 0.012
Melting Point	162 – 165°C	162 – 165°C
Loss on drying	#1%	0.21%
pH (1% aq soln)	10.4 – 11.0	10.9
Recommended Retest Date	MM/DD/YEAR	02/15/2019

05/26/2016 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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<mailto:biotech@mpbio.com>

<http://www.mpbio.com>

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