



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: Tris, Technical Grade_
Catalog Number: 103132_
Lot: QR10732_

Formula: C₄H₁₁NO₃

CAS #: 77-86-1

Physical Description: White Crystalline Powder

Formula Weight: 121.14

Storage: Room Temperature, desiccate

Test	Specification	Results
Identity Test	Passes	Passes
Purity	#96%	99.97% (GC)
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	165 - 172°C	170.7°C
pH (5% aq soln)	10 - 11.5	10.8

OD260 nm (5% aq soln): 0.002

Loss on Drying: 0.03%

Solubility (40% aq soln): Clear, Colorless Solution

Residue on Ignition: 0.00%

Heavy Metals (as Pb): <5 ppm

Iron (Fe): <5 ppm

Related Substances (by GC): 0.03wt%

APHA Color (20% aq soln): <5

Water: 0.1%

Water insoluble Matter: 0.001%

OD260 nm (10% aq soln): 0.00

OD280 nm (10% aq soln): 0.00

OD430 nm (10% aq soln): 0.000

OD290 nm (40% aq soln): 0.01

Identification A (USP): Pass

Identification B (USP/EP): Pass

Identification C (USP/EP): Pass

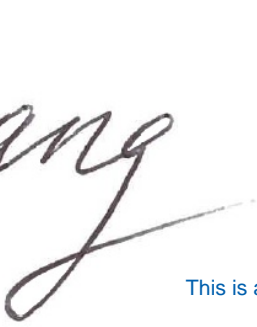
Residual Solvents (USP): Pass

Assay, by titration (USP/EP): Pass

Chlorides (EP): pass

Recommended Retest date:12/31/2016

06/23/2015 - John Huang, PhD
MP Biomedicals, LLC.
Senior QC Chemist



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