Tromethamine, U.S.P. Multi-Compendial

Tris (Base)



Material No.: 4102-05 Batch No.: 0000275589

Manufactured Date: 2020/11/17 Expiration Date: 2022/11/17 Release Date: 2021/02/01

Revision No: 1

## Certificate of Analysis

Meets B.P. Chemical Specifications, Meets E.P. Chemical Specifications, Meets JPC (1997) Chemical Specifications, Meets U.S.P Requirements,

**GMP Manufactured Product** 

Test	Specification	Result
USP - Assay (C4H11NO3)	99.0 - 101.0 %	100.2
USP – Identification A	Passes Test	PT
USP – Identification B	Passes Test	PT
USP - Identification C	Passes Test	PT
USP - pH (1 in 20)	10.0 - 11.5	10.8
USP – Loss on Drying	<= 1.0 %	< 1.0
USP – Residue on Ignition	<= 0.1 %	< 0.1
USP – Melting Range(Lower)	168 - 172 °C	170
USP - Melting Range(Upper)	168 - 172 °C	171
EP/BP – Assay (C4H11NO3) (dried basis)	99.0 - 100.5 %	99.9
EP/BP - Identification B (melting point)	168 - 174 °C	171
EP/BP - Identification C	Passes Test	PT
EP/BP - Appearance of Solution	Passes Test	PT
EP/BP - pH	10.0 - 11.5	10.8
EP/BP - Related Substances	<= 1.0 %	< 1.0
EP/BP - Chloride (Cl)	<= 100 ppm	< 100
EP/BP - Iron (Fe)	<= 10 ppm	< 10
EP/BP - Loss on Drying at 105°C	<= <b>0.5</b> %	< 0.5
EP/BP - Ash (sulfated)	<= 0.1 %	< 0.1
JPC 1997 - Assay (C4H11NO3) (dried basis)	>= 99.0 %	99.9
JPC 1997 – Identification A	Passes Test	PT

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Test	Specification	Result
PC 1997 – Identification B	Passes Test	PT
PC 1997 – pH	10.3 - 10.7	10.4
PC 1997 – Melting Point	168 - 172 °C	171
PC 1997 – Clarity and Color of Solution	Passes Test	PT
PC 1997 – Heavy Metals (as Pb)	<= 8 ppm	< 8
PC 1997 – Arsenic (As)	<= 1.6 ppm	< 1.6
PC 1997 – Loss on Drying	<= 0.5 %	< 0.5
PC 1997 – Residue on Ignition	<= 0.10 %	< 0.10
ssay (C4H11NO3) (dried basis)	>= 99.9 %	100.0
bsorbance of a 1M Solution – 260 nm	<= 0.06	< 0.06
bsorbance of a 1M Solution – 280 nm	<= 0.06	< 0.06
bsorbance of a 1M Solution – 400 nm	<= 0.01	< 0.01
ndotoxin Concentration (EU/g)	<= 2.5	< 1.0
on (Fe)	<= 1 ppm	< 1
ead (Pb)	<= 1 ppm	< 1

**Bulk Pharmaceutical Chemical** 

CAUTION: For Manufacturing, processing or repackaging

**Ultrapure Bioreagent Specifications** 

No Class 1,2,3 or other solvents are used or produced in the

manufacturing or purification of the product.

Manufactured exclusively for Avantor Performance Materials, LLC., by

BioSpectra, Inc., Stroudsburg, PA

Elemental Impurities (USP 232, EP 5.20) – Information on elemental

impurities for this product is available on the associated Product

Regulatory Data Sheet and elemental impurity profile report.

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC

Manufacturer: P0064001

Manufacturer source batch: TR7201-418-1120

