

## Product Specification

Test	Specification
Assay (C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub> ) (dried basis)	≥ 99,9 %
Assay (C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub> )	99,0 – 101,0 %
Appearance (White crystals)	Passes Test
Absorbance of a 1M Solution – 260 nm	≤ 0,06
Absorbance of a 1M Solution – 280 nm	≤ 0,06
Absorbance of a 1M Solution – 400 nm	≤ 0,01
RNase Activity (None Detected)	Passes Test
DNase Activity (None Detected)	Passes Test
Protease Activity (None Detected)	Passes Test
pH of 0.1M Solution at 25°C	10,0 – 11,0
Insoluble Matter	≤ 0,005 %
Water (H <sub>2</sub> O)(by Karl Fischer titrn)	≤ 0,3 %
Trace Impurities – Arsenic (As)	≤ 1 ppm
Trace Impurities – Calcium (Ca)	≤ 1 ppm
Trace Impurities – Copper (Cu)	≤ 1 ppm
Trace Impurities – Iron (Fe)	≤ 1 ppm
Trace Impurities – Lead (Pb)	≤ 1 ppm
Trace Impurities – Magnesium (Mg)	≤ 1,000 ppm
Trace Impurities – Manganese (Mn)	≤ 1 ppm
Identification A	Passes Test
Identification B	Passes Test
Identification C	Passes Test
Description	Passes Test
pH (1 in 20)	10,0 – 11,5
Loss on Drying	≤ 1,0 %
Residue after Ignition	≤ 0,10 %
Heavy Metals (as Pb)	≤ 0,001 %
Melting Range(Lower)	168 – 172 °C

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TRIS (Base)  
Ultrapure Bioreagent  
For Molecular Biology Applications



Material No.: 4109-06

Test	Specification
Melting Range(Upper)	168 – 172 °C

For Laboratory, Research, or Manufacturing Use  
No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.  
Material also meets the chemical specifications of Tromethamine, U.S.P.  
Manufactured exclusively for Avantor Performance Materials, LLC., by BioSpectra, Inc., Stroudsburg, PA

Packaging Site: Paris Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality

For questions on this Product Specification please contact Technical Services at 855.282.6867 or +1.610.386.1700  
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