TRIS (Base)
Ultrapure Bioreagent
For Molecular Biology Applications



Material No.: 4109-01 Revision No.: 0

## **Product Specification**

Test	Specification	
Assay (C4H11NO3) (dried basis)	≥ 99.9 %	
Assay (C4H11NO3)	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	Passes Test	
Protease Activity (None Detected)	Passes Test	
pH of 0.1M Solution at 25°C	10.0 - 11.0	
ACS – Insoluble Matter	≤ 0.005 %	
Water (H2O)(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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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

