



TRIS (Base)
ULTRAPURE BIOREAGENT

Product No. 4109
Specifications current as of: Jun 8
2011

TEST	SPECIFICATION
Assay (C ₄ H ₁₁ NO ₃) (dried basis)	min. 99.9 %
Assay (C ₄ H ₁₁ NO ₃)	99.0 - 101.0 %
Appearance (White crystals)	Passes Test
Absorbance of a 1M Solution:	
260 nm	max. 0.06
280 nm	max. 0.06
400 nm	max. 0.01
RNase Activity	None Detected
DNase Activity	None Detected
Protease Activity	None Detected
pH of 0.1M Solution at 25°C	10.0 - 11.0
Insoluble Matter	max. 0.005 %
Water (H ₂ O)(by Karl Fischer titrn)	max. 0.3 %
Trace Impurities (in ppm):	
Arsenic (As)	max. 1
Calcium (Ca)	max. 1
Copper (Cu)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 1
Magnesium (Mg)	max. 1
Manganese (Mn)	max. 1
Identification A	Passes Test
Identification B	Passes Test
Identification C	Passes Test
Description	Passes Test
Melting Range	168 - 172 °C.
pH (1 in 20)	10.0 - 11.5
Loss on Drying	max. 1.0 %
Residue after Ignition	max. 0.1 %
Heavy Metals (as Pb)	max. 0.001 %

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.

For Laboratory, Research or Manufacturing Use

Manufactured exclusively for Avantor Performance Materials, Inc., by BioSpectra, Inc., Stroudsburg, PA
