

Certificate of Analysis

TRIS UltraPure – Molecular Biology Grade - ACS

Catalog #	<u>Size</u>
IB70142	500gm
IB70144	1Kg
IB70145	5Kg
IB70147	50Kg

Catalog Number: IB70142, IB70144, IB70145, IB70147

Lot Number: 19C3001

Molecular Formula: C₄H₁₁NO₃

Molecular Weight: 121.14

Appearance: White crystals or crystalline powder

Color: White

<u>Assay</u> Assay (by titration,on dried basis) Absorbance (1M solution in H ₂ O) 280 nm Absorbance (40% solution in H ₂ O) 290 nm Identification (by IR)	<u>Min</u> 99.8%	<u>Max</u> 100.3% ≤0.1 ≤0.2	<u>Actual</u> 99.9% 0.0157 0.1 PASS
Insoluble Matter		≤0.005%	0.001%
pH (0.05M solution in H ₂ O @ 25°C) Water (by Karl Fischer) Heavy Metals (as Pb) Arsenic (As) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Electrophoresis DNase Assay RNase Assay Protease Assay	10.3	10.5 ≤2% ≤5 ppm ≤1 ppm ≤1 ppm ≤1 ppm ≤10 ppm	10.4 <0.1% <1 <5.0 <1.0 <1.0 <1.0 <1.0 0.4 PASS NONE NONE NONE

Storage

Store at room temperature. Protect from moisture.

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature: <u>Toby Frericks</u> Date: <u>03/11/2019</u>