



Certificate of Analysis

TRIS

UltraPure – Molecular Biology Grade - ACS

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

Catalog Number: IB70142, IB70144, IB70145, IB70147

Lot Number: 19A2003

Molecular Formula: C₄H₁₁NO₃

Molecular Weight: 121.14

Appearance: White crystals or crystalline powder

Solubility (40% Solution): Clear, colorless solution

<u>Assay</u>	<u>Min</u>	<u>Max</u>	<u>Actual</u>
Assay (by titration, on dried basis)	99.5%	100.3%	99.95
Absorbance (280nm)	≤0.07	<0.1	0.042
Absorbance (400nm)	≤0.02	<0.1	0.008
pH (5% Solution)	10.0	11.5	11.0
Water Content		≤0.2%	<0.2
Heavy Metals (as Pb)		≤5 ppm	PASS
Iron (Fe)		≤1 ppm	PASS
Chloride		≤3 ppm	PASS
Sulfate		≤10 ppm	PASS
Melting Point	168.0°C	171.0°C	169.4 - 170.7°C
Infrared Spectrum			PASS

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: Toby Frericks
Date: 01/09/2019