



Certificate of Analysis

TRIS-HCl

(Tris (Hydroxymethyl) Aminomethane Hydrochloride)

<u>Catalog #</u> IB70162	<u>Size</u> 500 gm
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Catalog Number: IB70162

Lot Number: 17H0151

Molecular Formula: C₄H₁₁NO₃•HCl

Molecular Weight: 157.64

Appearance: White, crystalline powder to needle-like crystals

<u>Assay</u>	<u>Min</u>	<u>Max</u>	<u>Actual</u>	<u>Units</u>	<u>Disposition</u>
Purity (Titration)	99.5		100.4	%	PASS
Insolubles		0.001	<=0.001	%	PASS
pH (0.1M, Water) @25°C	4.2	4.9	4.7		PASS
Lead		<0.0001	<0.0001	%	PASS
Iron		<0.001	<0.0001	%	PASS
Copper		<0.0001	<0.0001	%	PASS
Magnesium		<0.0001	<0.0001	%	PASS
Manganese		<0.0001	<0.0001	%	PASS
Calcium		<0.0001	<0.0001	%	PASS
Zinc		<0.0001	<0.0001	%	PASS
RNase		NONE	NONE	P/F	PASS
DNase		NONE	NONE	P/F	PASS
Protease		NONE	NONE	P/F	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: K. Kutsch
Date: 10/23/2017