

Corporate Headquarters AMRESCO, LLC 6681 Cochran Road Solon, Ohio USA 44139-4300 440/349-1199FAX: 440/349-1182 www.amresco-inc.com Email: info@amresco-inc.com

CERTIFICATE OF QUALITY

Product: TRIS HYDROCHLORIDE Grade: ULTRA PURE GRADE

Code: 0234

Appearance: White, crystalline powder to needle-like crystals

Mol. Formula: C4H11NO3.HCI

Mol. Weight: 157.64

Description:

Assay:	<u>Min</u>		<u>Max</u>	<u>Units</u>	Disposition
Calcium		<	0.0001	%	PASS
Copper		<	0.0001	%	PASS
DNase			NONE	P/F	PASS
Insolubles			0.001	%	PASS
Iron		<	0.001	%	PASS
Lead		<	0.0001	%	PASS
Magnesium		<	0.0001	%	PASS
Manganese		<	0.0001	%	PASS
pH (0.1M, Water) @25C	4.2		4.9		PASS
Protease			NONE	P/F	PASS
Purity (Titration)	99.5			%	PASS
Reassay Date	REPORT				PASS
RNase			NONE	P/F	PASS
Zinc		<	0.0001	%	PASS

Storage: Store at room temperature. Protect from moisture.

0234UP This signature indicates that the above material has met all quality

specifications and has been reviewed by a quality representative.

Signature: (You Crocke

Title: QC MANAGER Date: 6/29/2012