BIOBUFFER SOLUTIONS

PROCESS CHEMICAL

ISO CERTIFIED QUALITY MANAGEMENT SYSTEM

TRIS HYDROCHLORIDE

BET*, ISO GMP

CAS #: 1185-53-1 Formula: $NH_2C(CH_2OH)_3 \cdot HCl$ F.W.: 157.60 g/mol

THCL-6251 BIO QUALIFIED GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (1M)	260 nm	< = 0.05 a.u.
	280 nm	< = 0.05 a.u.
	400 nm	< = 0.01 a.u.
Appearance and Color		White Crystalline Powder
Assay, Dried Basis (NaOH Titration)		99.5 – 101.0%
Cytotoxicity		Passes Test
Endotoxin		< = 2.5 EU/g
Enzymes	DNase Exonuclease	None Detected
	DNase Endonuclease	None Detected
	RNase	None Detected
	Protease	None Detected
Identification, Chloride		Passes Test
Identification, IR		Conforms to Reference Standard
Insoluble Matter		< = 0.001%
Loss on Drying		< = 0.5%
Melting Range		149 – 153°C
Microbial Content	TAMC	< 50 CFU/g
	TYMC	< 50 CFU/g
pH (1%)		4.2 – 4.9
Residue on Ignition		< = 0.1%
Residual Solvents	Methanol	< = 300 ppm
	Nitromethane	< = 50 ppm
Solubility (1M)		Clear, Colorless Solution

ANALYSIS		SPECIFICATIONS
Trace Metals	Aluminum (Al)	< = 5 ppm
	Arsenic (As)	< = 10 ppm
	Antimony (Sb)	< = 5 ppm
	Barium (Ba)	< = 5 ppm
	Bismuth (Bi)	< = 5 ppm
	Cadmium (Cd)	< = 5 ppm
	Calcium (Ca)	< = 5 ppm
	Chromium (Cr)	< = 5 ppm
	Cobalt (Co)	< = 5 ppm
	Copper (Cu)	< = 1 ppm
	Iron (Fe)	< = 1 ppm
	Lead (Pb)	< = 5 ppm
	Lithium (Li)	< = 5 ppm
	Manganese (Mn)	< = 1 ppm
	Magnesium (Mg)	< = 5 ppm
	Mercury (Hg)	< = 5 ppm
	Molybdenum (Mo)	< = 5 ppm
	Nickel (Ni)	< = 5 ppm
	Potassium (K)	< = 50 ppm
	Silver (Ag)	< = 5 ppm
	Sodium (Na)	< = 50 ppm
	Strontium (Sr)	< = 5 ppm
	Tin (Sn)	< = 5 ppm
	Zinc (Zn)	< = 5 ppm
Water, KF		< = 0.5%

*Bioburden and Endotoxin Tested

Refer to page 2 for additional product details.

General Product Overview

Tris Hydrochloride is a stabilizing buffer in biological applications such as electrochromatography, UV analysis and HPLC. It is used to adjust and stabilize the pH ranges for gels used in electrophoresis applications. Tris Hydrochloride is extensively used as a biological buffer or a component of buffer solutions.

Industry Application

Suitable for use as a cGMP chemical in pharmaceutical manufacturing processes and biological/biotech process applications from R&D through scale cGMP production.

Key Product Features

- Appears as a white crystalline product
- Manufactured in accordance with the ISO Certified Quality Management System
- Manufactured in an enzyme free, hormone free and animal free environment
- Contains no known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: 2-Amino-2-(Hydroxymethyl)-1,3-Propanediol Hydrochloride; Tri(Hydroxymethyl) Aminomethane Hydrochloride.

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf-Life Policy

Please inquire for information regarding shelf-life.

Package Sizes

1kg, 5kg, 10kg, 25kg, 50kg

Click here to view SDS, CoAs and other supporting regulatory documents on our website.