BIOBUFFER SOLUTIONS

PROCESS CHEMICAL

ISO CERTIFIED QUALITY MANAGEMENT SYSTEM

TRIS / TROMETHAMINE

MEETS USP, EP, JPC, ChP, BET*

CAS #: 77-86-1 Formula: $NH_2C(CH_2OH)_3$ F.W.: 121.14 g/mol

TRIS-6251 BIO QUALIFIED GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (10%)	260 nm 280 nm 430 nm	< = 0.03 a.u. < = 0.02 a.u. < = 0.004 a.u.
Absorbance (40%)	280 nm 290 nm 400 nm	< = 0.06 a.u. < = 0.2 a.u. < = 0.02 a.u.
Absorbance (1M)	260 nm 280 nm 430 nm	< = 0.06 a.u. < = 0.05 a.u. < = 0.01 a.u.
APHA Color, 20% Aqueous Solution		< = 20 APHA
Appearance of Solution		Passes Test
Assay, Dried Basis		99.0 - 100.5%
Assay, Dried Basis (UltraPure)		> = 99.9%
Chloride		< = 100 ppm
Clarity & Color of Solution		Passes Test
Endotoxin		< = 2.5 EU/g
Foreign Materials, 10% Solution		Clear and Complete
Identification A (JPC)		Passes Test
Identification A (EP), pH (5%)		10.0 – 11.5
Identification, IR (USP-A/EP-C/ChP-3)		Conforms to Reference Standard
Identification B (USP/ChP-1)		Passes Test
Identification B (JPC)		Passes Test
Identification B (EP), Melting Point		168-172°C
Identification C (USP)		Passes Test
Identification D (EP/ChP-2)		Conforms to Reference Standard
Insoluble Matter		< = 0.005%
Loss on Drying		< = 0.3%
Microbial Content	TAMC TYMC	< 50 CFU/g < 50 CFU/g

ANALYSIS		SPECIFICATIONS
Non-Volatile Residue		< = 0.1%
Odor		Pass
pH (1 in 100)		10.3 – 10.7
Related Substances		< = 0.10%
Residual Solvents		Pass
Residue on Ignition / Sulfated Ash		< = 0.05%
Solubility (40%)		Pass
Volatile Residue		< = 0.5%
Trace Metals	Arsenic (As) Barium (Ba) Bismuth (Bi) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Molybdenum (Mo) Nickel (Ni) Potassium (K) Zinc (Zn)	< = 1.6 ppm < = 5 ppm < = 5 ppm < = 5 ppm < = 1 ppm < = 5 ppm < = 5 ppm < = 1 ppm < = 5 ppm < = 5 ppm < = 1 ppm < = 1 ppm < = 5 ppm < = 5 ppm < = 50 ppm < = 5 ppm
Water, KF		< = 0.2%

*Bioburden and Endotoxin Tested

Refer to page 2 for additional product details.

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General Product Overview

Tris/Tromethamine is commonly used as a buffer in upstream biological and pharmaceutical manufacturing applications. Tris is considered a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.

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: Trometamol; THAM; Tris (Hydroxyethyl) Aminomethane; Trisaminol; Trismethylolaminomethane; 2-Amino-2 (Hydroxymethyl) propane-1,2-diol

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.