

TRIS (TROMETHAMINE)

BIOTECH, HIGH ASSAY, USP, GMP

CAS #: 77-86-1

Formula: $C_4H_{11}NO_3$

F.W.: 121.14 g/mol

TRIS-4223

BIO PHARMA GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (1M)	260 nm	≤ 0.06 a.u.
	280 nm	≤ 0.06 a.u.
	430 nm	≤ 0.01 a.u.
Absorbance (10%)	260 nm	≤ 0.03 a.u.
	280 nm	≤ 0.02 a.u.
	430 nm	≤ 0.004 a.u.
Absorbance (40%)	290 nm	≤ 0.20 a.u.
APHA Color (20% Solution)		≤ 20
Assay, Dried Basis (Ultrapure)		$\geq 99.9\%$
Chloride		≤ 20 ppm
Endotoxin		≤ 2.5 EU/g
Enzymes	DNase	None Detected
	Protease	None Detected
	RNase	None Detected
Heavy Metals (as Pb)		≤ 1 ppm
Insoluble Matter		$\leq 0.005\%$
Loss on Drying		$\leq 0.3\%$
Melting Range		168 – 172°C
Microbial Content	TAMC	≤ 100 CFU/g
	TYMC	≤ 100 CFU/g
pH (5% solution)		10.0 – 11.5
Related Substances		$\leq 0.1\%$
Residue on Ignition		$\leq 0.05\%$
Trace Metals	Aluminum (Al)	≤ 5 ppm
	Arsenic (As)	≤ 1.6 ppm
	Barium (Ba)	≤ 5 ppm
	Bismuth (Bi)	≤ 5 ppm
	Cadmium (Cd)	≤ 5 ppm
	Calcium (Ca)	≤ 1 ppm
	Chromium (Cr)	≤ 5 ppm
	Cobalt (Co)	≤ 5 ppm
	Copper (Cu)	≤ 1 ppm
	Iron (Fe)	≤ 1 ppm
	Lead (Pb)	≤ 1 ppm
	Lithium (Li)	≤ 5 ppm
	Magnesium (Mg)	≤ 5 ppm
	Manganese (Mn)	≤ 1 ppm
	Molybdenum (Mo)	≤ 5 ppm
	Nickel (Ni)	≤ 5 ppm
	Potassium (K)	≤ 50 ppm
	Sodium (Na)	≤ 50 ppm
	Zinc (Zn)	≤ 1 ppm
Water, KF		$\leq 1.0\%$

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, GMP, Reagent grade product, purified under a full cGMP system. It is used when high purity, high assay, GMP Tromethamine is required. Tris is considered a Good's buffer because it has low UV absorptivity, minimum reactivity, stable pH and is soluble in water.

General Product Description

- Appears as a white crystalline product
- Manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- 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/derivatives.
- Is not subject to genetic modification
- Synonyms: Tris, Tromethamine, Tris(hydroxymethyl) aminomethane
- Visit the product page on our website (www.biospectra.us) for additional information,

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf Life Policy

Each Certificate of Analysis will contain a 2-year retest/recertification date supported by a 3-year ICH Q1 Stability Study (if one is completed).

Package Sizes

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg

Standard Lead Time

1-2 weeks

Country of Origin: USA

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