

BIS-TRIS BIOTECH LBLE, GMP BTRI-4250

$C_8H_{19}NO_5$ * F.W. 209.24 g/mol * CAS# 6976-37-0

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

Intended to be used as a high purity, GMP Reagent Grade. BIS-TRIS is a zwitterionic biological "Goods" buffer often used in biological pharmaceutical manufacturing and biochemistry for extraction, separation and purification, as well as an intermediate in synthetic reactions for both proteins and nucleic acid. BIS-TRIS is also used as a process aid in peptide synthesis. It can also be used as a scavenger agent for metal ions such as Cu and Pb.

SPECIFICATIONS

ANALYSIS		SPECIFICATIONS
Enzymes	DNase	None Detected
	Protease	None Detected
	RNase	None Detected
Trace Metals	Aluminum (Al)	≤ 5 ppm
	Calcium (Ca)	≤ 500 ppm
	Lead (Pb)	≤ 10 ppm
	Phosphorus (P)	≤ 500 ppm
Appearance and Color		White Crystalline Powder
Assay (Titration, Dry Basis)		99.0% - 101.0%
Bioburden	TAMC	≤ 100 CFU/g
	TYMC	≤ 100 CFU/g
Chloride		< 0.005%
Endotoxin		≤ 50 EU/g
Absorbance (0.1M)	280nm	≤ 0.04 a.u.
	340nm	≤ 0.02 a.u.
Heavy Metals (Pb)		≤ 3ppm
Identification (IR)		Conforms to Reference Standard
Iron		≤ 3ppm
Loss on Drying (LOD)		≤ 1.0%
Melting Point		100 – 105°C
pH (1% aqueous)		8.8 – 9.8
pKa @ 25° C		6.3 – 6.7
Residue on Ignition (ROI)		≤ 0.1%
Solubility 0.1M in H ₂ O		Clear & Complete

Water (KF)	≤ 1.0%
Ammonia (NH ₄)	≤ 0.05%
Sulfate (SO ₄)	≤ 0.05%

General Product Description:

Molecular Formula: C₈H₁₉NO₅
Molecular Weight: 209.24 g/mol
CAS Number: 6976-37-0

BIS-TRIS Biotech:

- Appears as a white crystalline product.
- Is manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- Has no known major food allergens (as defined by FDA and WHO)
- The final product nor its raw materials are not derived from nor come into contact with animals, animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: 2,2-Bis(hydroxymethyl)-2,2',2''-nitrile tri ethanol; Bis(2-hydroxyethyl) amino tris (hydroxymethyl)methane

Shelf Life Policy:

Three-year expiry from the date of manufacture.

Storage and Shipping Conditions:

Please refer to the SDS for storage and shipping conditions.

Package Size:

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