

BIOSPECTRA

100 Majestic Way, Bangor, PA 18013 / www.biospectra.us

Effective Date:	26-May-2026	26-May-2029	: Date of Next Review
Prepared By:	Ariel McCall	BSI-COA-0351 v.1.0	: Supersedes
QA/QC Approval:	Krista Rehrig	Carissa Albert	: Management Approval
Reason for Revision:	See Revision History in MasterControl		

CERTIFICATE OF ANALYSIS

TRIS/TROMETHAMINE

GMP

BIO PHARMA GRADE / TRIS-4224

LOT: TRIS-S04-0426-0050

 $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$ * F.W. 121.14 g/mol. * CAS# 77-86-1

Manufacture Date: 4/28/26 Expiration Date: 4/30/29

Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360

Packaging Site: 100 Majestic Way, Bangor PA, 18013

Meets USP Specifications

ANALYSIS	SPECIFICATION	TEST RESULT
Appearance and Color	White Crystals	Passes Test
Assay, Dried Basis (USP)	99.0 – 101.0 %	99.9 %
Identification A, IR (USP)	Conforms to Reference Standard	Passes Test
Identification B (USP)	Passes Test	Passes Test
Identification C (USP)	Passes Test	Passes Test
Loss on Drying (USP)	< = 1.0 %	0.3 %
Melting Range (USP)	168 - 172°C	170-171 °C
pH (5%) (USP)	10.0 – 11.5	11.0
Residue on Ignition (USP)	< = 0.1 %	<0.1 %

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0007

INTENDED USE: Material represented by this Certificate of Analysis is suitable for use as a process chemical. It is manufactured in accordance with the IPEC-PQG Joint Good Manufacturing Practice Guide. The material represented by this Certificate of Analysis is not suitable to be used as an Active Pharmaceutical Ingredient, Drug, Drug Product or Household Item.

 Prepared by: *Krista Rehrig* Date: 5/26/26 Job Title: QA Supervisor

 Reviewed by: *Ariel McCall* Date: 5/26/26 Job Title: QA Tech III