

BIOBUFFER SOLUTIONS

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

Effective Date:	03-Mar-2026	03-Mar-2029	: Date of Next Review
Prepared By:	Amy Yencho	Not Applicable	: Supersedes
QA/QC Approval:	Krista Rehrig	Hannah Kuchmas	: Management Approval
Reason for Revision:	See Revision History in MasterControl.		

CERTIFICATE OF ANALYSIS

TRIS HYDROCHLORIDE

BIO QUALIFIED GRADE / THCL-6201

LOT: THCL-L02-0326-0030

 $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3 \cdot \text{HCl}$ * F.W. 157.60 g/mol. * CAS#: 1185-53-1

Manufacturing Date: 11/04/25 Retest Date: 11/30/27

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS	SPECIFICATION	TEST RESULT
Absorbance (1M)	260 nm	< = 0.06 a.u.
	280 nm	< = 0.05 a.u.
Appearance and Color	White Crystalline	Passes Test
Assay, Dried Basis	99.5 – 101.0 %	99.5 %
Heavy Metal (Pb)	< = 10 ppm	< = 10 ppm
Identification, IR	Conforms to Reference Standard	Passes Test
Melting Range	150 - 154°C	151-153 °C
pH (1%)	4.2 – 5.0	5.0
Solubility (1M)	Clear, Colorless Solution	Passes Test
Water, KF	< = 0.5 %	0.5 %

COUNTRY OF ORIGIN: ChinaTEST METHOD REFERENCE: BSI-ATM-0002MANUFACTURING DATE: The manufacturing date is representative of the final packaging date at BioSpectra.

INTENDED USE: Material represented by this Certificate of Analysis is suitable for use as a process chemical. It is manufactured in accordance with an ISO Certified Quality Management System. 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: [Signature] Date: 3/26/26 Job Title: Senior QS ManagerReviewed by: [Signature] Date: 3/26/26 Job Title: QA Supervisor