BIOBUFFER SOLUTIONS

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

Effective Date:	31-Jul-2026	31-Jul-2029	: Date of Next Review
Prepared By:	Amy Yencho	BSI-COA-0042 v.7.3	: Supersedes
QA/QC Approval:	Krista Rehrig	Carissa Albert	: Management Approval
Reason for Revision:	See Revision History in MasterControl.		

CERTIFICATE OF ANALYSIS

GUANIDINE THIOCYANATE

REAGENT

BIO ULTRA GRADE / GTHI-5220

LOT: GTHI-L03-1026-0002

$NH_2C(NH)NH_2 \cdot HSCN$ ▲ F.W. 118.16 g/mol. ▲ CAS#: 593-84-0

Manufacturing Date: 10/31/26 Retest Date: 02/28/27

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS		SPECIFICATION	TEST RESULT
Absorbance (1.7M)	280 nm	< = 0.400 a.u.	0.135 a.u.
	300 nm	< = 0.070 a.u.	0.036 a.u.
	340 nm	< = 0.050 a.u.	0.017 a.u.
Appearance and Color		White Crystals	Passes Test
Assay, Dried Basis		> = 99.0 %	99.8 %
Enzymes	DNase	None Detected	None Detected
	RNase	None Detected	None Detected
Identification, IR		Conforms to Reference Standard	Passes Test
Melting Range		115 - 121°C	120 - 121°C
pH (5%)		5.0 – 7.0	6.2
Solubility (35%)		Passes Test	Passes Test
Trace Metals	Barium (Ba)	< = 5 ppm	< 4.2 ppm
	Iron (Fe)	< = 5 ppm	< 0.90 ppm
	Lead (Pb)	< = 5 ppm	< 0.15 ppm
	Potassium (K)	< = 50 ppm	< 15 ppm
	Sodium (Na)	< = 5000 ppm	73 ppm

TEST METHOD REFERENCE: BSI-ATM-0003

MANUFACTURING 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. The material represented by this Certificate of Analysis is not suitable to be used as an Excipient, Active Pharmaceutical Ingredient, Drug, Drug Product or Household Item.

The information contained herein is the confidential property of BioSpectra. The recipient is responsible for its safe-keeping, and the prevention of unauthorized appropriation, use, disclosure and copying.

Prepared by: Ann McCall Date: 11/4/26 Job Title: QA Tech III

Reviewed by: [signature] Date: 11/4/26 Job Title: QA Supervisor

The information contained herein is the confidential property of BioSpectra. The recipient is responsible for its safe-keeping, and the prevention of unauthorized appropriation, use, disclosure and copying.