

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 Yenko	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-L03-0826-0001

 $\text{NH}_2\text{C}(\text{NH})\text{NH}_2\cdot\text{HSCN}$ ▲ F.W. 118.16 g/mol. ▲ CAS#: 593-84-0

Manufacturing Date: 08/06/26 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.
	300 nm	<= 0.070 a.u.
	340 nm	<= 0.050 a.u.
Appearance and Color	White Crystals	Passes Test
Assay, Dried Basis	>= 99.0 %	99.8 %
Enzymes	DNase	None Detected
	RNase	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
	Iron (Fe)	<= 5 ppm
	Lead (Pb)	<= 5 ppm
	Potassium (K)	<= 50 ppm
	Sodium (Na)	<= 5000 ppm

TEST METHOD REFERENCE: BSI-ATM-0003MANUFACTURING 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.

Prepared by: Anil McCall Date: 8/11/26 Job Title: QA Tech III

Reviewed by: Jon Bligh Date: 8/11/26 Job Title: QA Supervisor