

BIOBUFFER SOLUTIONS

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

Effective Date:	22-Jul-2024	22-Jul-2027	: Date of Next Review
Prepared By:	Taylor Yurick	BSI-COA-0158 v.3.0	: Supersedes
QA/QC Approval:	Carissa Albert	Wayne Talamonti	: Management Approval
Reason for Revision:	See Revision History in MasterControl.		

CERTIFICATE OF ANALYSIS

GUANIDINE THIOCYANATE

BIO ULTRA GRADE GTHI-5221-92

LOT: GTHI-L02-0924-0010

$\text{NH}_2\text{C}(\text{NH})\text{NH}_2\text{-HSCN}$ * F.W. 118.16 g/mol. * CAS#: 593-84-0
 Manufacturing/Packaging Date: 09/13/24 Retest Date: 01/31/25
 Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS		SPECIFICATION	TEST RESULT
Appearance and Color Assay, Dried Basis		White / Crystals ≥ 99.0%	White / Crystals 100.3%
Enzymes	DNase	None Detected	None Detected
	RNase	None Detected	None Detected
Heavy Metals (as Lead)		≤ 5 ppm	< 0.15 ppm
Identification (IR)		Conforms to Structure	Conforms to Structure
Solubility (Colour)		Colorless	Colorless
Solubility (Turbidity) 100mg/mL H ₂ O		Clear	Clear
Trace Metals	Barium (Ba)	≤ 0.0005%	< 0.00042%
	Iron (Fe)	≤ 0.0005%	< 0.00009%
	Potassium (K)	≤ 0.005%	< 0.0015%
	Sodium (Na)	≤ 0.5%	0.012%

TEST METHOD REFERENCE: BSI-ATM-0003

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: 9/19/24 Job Title: QA Tech 1

Reviewed by: Janor Bingham Date: 9/20/24 Job Title: QA Supervisor