

100 Majestic Way, Bangor, PA 18013 / [www.biospectra.us](http://www.biospectra.us)

Effective Date:	25-Jun-2020	25-Jun-2023	: Date of Next Review
Prepared By:	Amy Hosein	Not Applicable	: Supersedes
QA/QC Approval:	Wendy Santay	Amy Yenko	: Management Approval
Reason for Revision:	See Revision History in ensur.		

**CERTIFICATE OF ANALYSIS**  
**GUANIDINE THIOCYANATE**  
**BIO ULTRA GRADE / GT5221 – K001**  
**LOT: GT5221-001-0620**

NH<sub>2</sub>C(NH)NH<sub>2</sub>·HSCN ▲ F.W. 118.16 g/mol. ▲ CAS#: 593-84-0  
 Manufacturing/Packaging Date: 6/25/20 Retest Date: 6/30/22  
 Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS		SPECIFICATION	TEST RESULT
Appearance and Color		White / Crystals	White / Crystals
Assay, Dried Basis		≥ 99.0%	100.0%
Enzymes	DNase	None Detected	None Detected
	RNase	None Detected	None Detected
Identification (IR)		Conforms to Structure	Conforms to Structure
Solubility (Colour)		Colorless	Colorless
Solubility (Turbidity) 100mg/mL H <sub>2</sub> O		Clear	Clear

COUNTRY OF ORIGIN: ChinaTEST METHOD REFERENCE: 16-000043

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: C. [Signature] Date: 06/26/20 Job Title: QA Supervisor

Reviewed by: Wendy Santay [Signature] Date: 06/26/20 Job Title: QA Manager