

BIOSPECTRA

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

Effective Date:	23-Jun-2017	23-Jun-2020	: Date of Next Review
Prepared By:	Jamie Storm	16-000923 v.2.0	: Supersedes
QA/QC Approval:	Crystal Hamelburg	Dora Meissner	: Management Approval
Reason for Revision:	See Revision History in ensur		

GUANIDINE THIOCYANATE

CERTIFICATE OF ANALYSIS

BIO PHARMA GRADE / GT4220-K010

LOT: GT4220-106-0718

$\text{NH}_2\text{C}(\text{NH})\text{NH}_2\cdot\text{HSCN}$ * F.W. 118.16 g/mol. * CAS# 593-84-0
 Manufacturing Date: 04/25/2018 Retest Date: 04/30/2020
 Manufacturing Site: 100 Majestic Way, Bangor PA, 18013
 Packaging Date: 07/23/2018
 Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS	SPECIFICATION	TEST RESULT
Absorbance	280 nm	0.300 a.u. maximum
	300 nm	0.050 a.u. maximum
	340 nm	0.030 a.u. maximum
Appearance and Color	White / Crystals	White / Crystals
Assay	99.5% minimum	99.74%
Enzymes	DNase	None Detected
	Protease	None Detected
	RNase	None Detected
Identification (IR)	Passes Test	Passes Test
Loss on Drying	0.5% maximum	0.2265%
Melting Range	115-121°C	119.3 – 120.3°C
pH (5% solution)	5.0-7.0	5.48 @ 18.5°C
Solubility (35%)	Clear	Clear
Trace Metals	Arsenic (As)	5 ppm maximum
	Copper (Cu)	5 ppm maximum
	Iron (Fe)	5 ppm maximum
	Lead (Pb)	5 ppm maximum

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: 16-000043

INTENDED USE: Material represented by this Certificate of Analysis is suitable to be used only as the following: IPEC Compliant GMP Manufactured Chemical, for use in further Manufacturing or as a Reagent for Laboratory and Research. 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.

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RESIDUAL SOLVENTS: Based on the manufacturing process and the controlled handling and storage of this product, there is no potential for any of the residual solvents listed in the current USP method <467> Tables 1, 2, 3, or 4 to be present at the specified limits; furthermore, if tested this product would comply with USP/NF requirements.

Prepared by: H. Bennett Date: 7/24/18

Reviewed by: C. [Signature] Date: 7/24/18