

BIOSPECTRA

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

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|----------------------|-------------------|----------------|-----------------------|
| Effective Date: | November 18, 2015 | November, 2018 | : Date of Next Review |
| Prepared By: | Jamie Storm | Not Applicable | : Supersedes |
| QA/QC Approval: | Chad Pezoldt | Sarah DeMaio | : Management Approval |
| Reason for Revision: | New Document | | |

GUANIDINE HYDROCHLORIDE 6 MOLAR SOLUTION

CERTIFICATE OF ANALYSIS

BIO PHARMA GRADE / GH4120-L001

LOT#: GH4120-003-1116

$\text{NH}_2\text{C}(\text{NH})\text{NH}_2\cdot\text{HCl}$ ^ F.W. 95.53 ^ CAS#: 50-01-1

Manufacturing Date: 10/26/16 Retest Date: 10/31/18

Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360

Packaging Date: 11/02/16

Packaging Site: 1474 Rockdale Lane, Stroudsburg, PA 18360

| ANALYSIS | SPECIFICATIONS | RESULT |
|----------------------|-------------------------|-------------------------|
| Appearance and Color | Clear, colorless liquid | Clear, colorless liquid |
| Identification (IR) | Passes Test | Passes Test |
| Molarity | 5.5 – 6.5 | 5.99 M |

COUNTRY OF ORIGIN: U.S.A.

OVI STATEMENT: 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.

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.

Prepared by:  Date: 11/04/16

Verified by:  Date: 11/4/16