



Certificate of Analysis

Guanidine Hydrochloride 6.0 M Solution

PharmaPUR™

GMP Manufactured Product

<u>Property</u>	<u>Specifications</u>	<u>Analysis</u>	
Molarity	5.8-6.2 M	6.0	M
pH (neat)	4.5-5.5	5.0	
pH of 1:10 solution	4.5-6.5	5.2	
Arsenic	1 ppm maximum	<1.000	ppm
Copper	1 ppm maximum	<1.000	ppm
Cyanide	Passes Test	Pass	
Heavy Metals	10 ppm maximum	<10	ppm
Iron	1 ppm maximum	<1.000	ppm
Lead	1 ppm maximum	<1.000	ppm
Appearance & Color	Clear, colorless liquid	Pass	
Identification	Passes Test	Pass	
UV Absorbance at 230nm	Report	0.332	a.u.
UV Absorbance at 260nm	0.050 a.u. maximum	0.013	a.u.
UV Absorbance at 280nm	0.050 a.u. maximum	0.004	a.u.

Lot Number 31103141601

By Stephanie Pinho
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Laboratory Manager

Manufacture Date 11/09/2016
Expiration Date 11/30/2018