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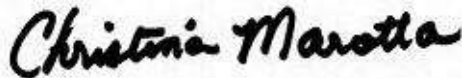
Certificate of Analysis

Product Description: Guanidine Hydrochloride, ultra pure
Catalog Number: 820512; 820539; 820540; 820539B
Lot: M3095

Formula: CH₅N₃·HCl
CAS #: 50-01-1
Physical Description: Powder

Formula Weight: 95.53
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.6%
Melting Point	180-190°C	188.6°C
FTIR	Conforms to Standard	Conforms to Standard
pH (6.0 M aq soln)	4-6	5.4
OD260 (6.0 M aq soln)	< 0.03	0.019
Loss on Drying	≤ 1.0%	0.22%
Solubility (6.0 M aq soln)	Clear, Colorless Solution	Clear, Colorless Solution



01/06/2012 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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