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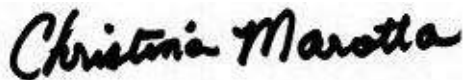
Certificate of Analysis

Product Description: Ammonium Chloride, ACS
Catalog Number: 191406
Lot: M4488

Formula: NH₄Cl
CAS #: 12125-02-9
Physical Description: Powder

Formula Weight: 53.49
Storage: Room Temperature

Test	Specification	Result
Assay	≥99.5%	99.80%
pH (5% aq soln)	4.5 - 5.5	5.0
Insoluble Matter	≤0.005%	0.001%
Residue after Ignition	≤0.01%	0.009%
Calcium	≤0.001%	<0.001%
Magnesium	≤5 ppm	<5 ppm
Heavy Metals	≤5 ppm	0.1 ppm
Iron	≤2 ppm	0.5 ppm
Phosphate	≤2 ppm	<2 ppm
Sulfate	≤0.002%	Not Detected



07/23/2012 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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