

MP Biomedicals, LLC29525 Fountain Parkway
Solon, Ohio 44139Telephone: 440/337-1200
Toll Free: 800/854-0530

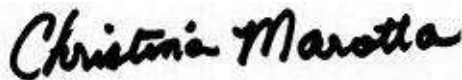
Certificate of Analysis

Product Description: Ammonium Chloride, ACS
Catalog Number: 191406
Lot: M3102

Formula: NH₄Cl
CAS #: 12125-02-9
Physical Description: White Crystals

Formula Weight: 53.49
Storage: Room Temperature

Test	Specification	Result
Assay	≥99.5%	99.7%
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	4 ppm
Iron	≤2 ppm	0.5 ppm
Phosphate	≤2 ppm	<2 ppm
Sulfate	≤0.002%	≤0.002%



01/10/2012 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

This is an electronically generated document
<mailto:biotech@mpbio.com>
<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site
Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)