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Certificate of Analysis

Product Description: Betaine, Free Base, Anhydrous
Catalog Number: 101003
Lot: QR13295**Formula:** C₅H₁₁NO₂
CAS #: 107-43-7
Physical Description: White Powder**Formula Weight:** 117.1
Storage: 2 - 8°C, desiccate

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Moisture	≤ 1%	0.67%

Bulk density: 0.50g/ml
Tapped Density: 0.65g/ml
Cadmium: <0.3ppm
Chromium: <2ppm
Lead: <1ppm
Mercury: <0.2ppm
pH: 5.84
Heavy Metals: <10 ppm
Arsenic: <1 ppm
Residue on Ignition: 0.08%
Assay: 98.1%
Total plate count: <1000 cfu/g
Coliform: <30 Mpn/100g
Yeast & Mold: <100 cfu/gm
Escherichia coli: Negative
Salmonella: Negative
Staphylococcus aureus: Negative
Shigella: Negative
Particle size: 100% thru 20 mesh
Recommended Retest Date: 01/22/2019

01/28/2017 - John Huang, PhD
MP Biomedicals, LLC.

Quality Control Manager

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Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)