

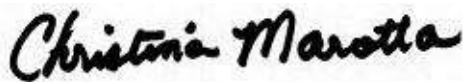
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Certificate of Analysis

Product Description: L-Asparagine Anhydrous
Catalog Number: 100794
Lot: M9034**Formula:** C₄H₈N₂O₃
CAS #: 70-47-3
Physical Description: White Crystalline Powder**Formula Weight:** 132.12
Storage: Room Temperature, desiccate

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.21%
FTIR	Conforms to Standard	Conforms to Standard
Loss on Drying	≤1.0%	0.12%
Optical Rotation	+25° to +36° (c=10, 1N HCl)	+34.82%

Chloride: <200 ppm
Iron: <10 ppm
Transmittance: 99.2%
Sulfate: <200 ppm
Residue on ignition: 0.05%
Arsenic: <1 ppm
Heavy metals (as Pb): <10 ppm
Ammonium: <0.10%
pH: 4.42



05/06/2014 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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