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Certificate of Analysis

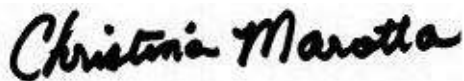
Product Description: L-Asparagine Anhydrous
Catalog Number: 100794
Lot: M8866

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%	99.81%
FTIR	Conforms to Standard	Conforms to Standard
Loss on Drying	≤1.0%	0.09%
Optical Rotation	+25° to +36° (c=10, 1N HCl)	+34.88%

Chloride: <200 ppm
Iron: <10 ppm
Transmittance: 99.5%
Sulfate: <200 ppm
Residue on ignition: 0.04%
Arsenic: <1 ppm
Heavy metals (as Pb): <10 ppm
Ammonium: <0.10%
pH: 4.52
Recommended Retest Date: 03/04/2016



03/27/2014 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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