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Certificate of Analysis

Product Description: L-Ornithine Hydrochloride, cell culture reagent
Catalog Number: 194718
Lot: SR03516

Formula: C₅H₁₂N₂O₂·HCl
CAS #: 3184-13-2
Physical Description: White Powder

Formula Weight: 168.63
Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	~99%	99.20% (anhydrous basis)
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation	Record Result	+23.5°

Essentially free of citrulline and ammonia

Heavy Metals: <10 ppm

Anion:

-Sulfate (SO₄²⁻): <0.020%

Cation:

-Ammonium (NH₄⁺): <0.020%

-Iron (Fe): <10 ppm

-Arsenic (As₂O₃): <1 ppm

pH: 5.1

Loss on Drying: 0.15%

Other Amino Acids: Not Detected

Residue on Ignition: 0.03%

State of Solution (Transmittance): 99.3%

Recommended Retest Date (MM/DD/YYYY): 12/04/2025

12/07/2020 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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