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Certificate of Analysis

Product Description: delta-Aminolevulinic Acid Hydrochloride, cell culture reagent**Catalog Number:** 194621_**Lot:** MR29528_**Formula:** $C_5H_9NO_3 \cdot HCl$ **CAS #:** 5451-09-2**Physical Description:** Pale, Yellowy Tan Crystalline Powder**Formula Weight:** 167.59**Storage:** -0°C

Test	Specification	Result
Identity Test	Passes	Passes (HPLC, NMR, Mass Spectrum)
Purity	~98%	99.1%
Melting Point	150 - 160°C	Passes
FTIR	Conforms to Standard	Conforms to Standard

Loss on Drying: 0.41%

Residue on Ignition: 0.12%

Heavy Metals: #20 ppm

Iron: #20 ppm

Bacteria Endotoxins: 0.4 EU/mg

Total Aerobic Microbial Count: <100 cfu/g

Total Impurities: 0.51%

Any Other Single Impurity: #0.3 ppm

07/17/2012 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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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)

