

**MP Biomedicals, LLC**29525 Fountain Parkway
Solon, Ohio 44139Telephone: 440/337-1200
Toll Free: 800/854-0530Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: L-Lysine Hydrochloride, cell culture reagent**Catalog Number:** 194697**Lot:** 5295A**Formula:** $C_6H_{14}N_2O_2 \cdot HCl$ **CAS #:** 657-27-2**Physical Description:** white crystalline powder**Formula Weight:** 182.6**Storage:** Room Temperature

| Test | Specification | Result |
|----------------------------|---------------------------|------------------|
| Identity Test | Passes | Passes |
| Purity | $\geq 99\%$ | 99.72% |
| pH (10% aqueous solution): | 5 - 6 | 5.5 |
| Loss on Drying: | Not more than 1.0% | 0.21% |
| Optical Rotation: | +20 to +23° (C=8, 2N Hcl) | +21.23 |
| Heavy Metals: | Not more than 10 ppm | <10ppm |

Approved - 08/21/98 by Joe Dietz

MP Biomedicals, LLC.

Technical Director

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<mailto:biotech@mpbio.com><http://www.mpbio.com>

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