



ISO 9001 CERTIFIED  
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

**Product:** L-ARGININE MONOHYDROCHLORIDE

**Grade:** USP GRADE

**Code:** 0877

Appearance: White crystalline powder

Mol. Formula: C6H14N4O2.HCl

Mol. Weight: 210.66

Description:

| <u>Assay:</u>          | <u>Min</u> | <u>Max</u> | <u>Units</u> | <u>Disposition</u> |
|------------------------|------------|------------|--------------|--------------------|
| Chloride               | 16.5       | 17.1       | %            | PASS               |
| Chromatographic Purity | PASS       |            | P/F          | PASS               |
| Heavy Metals           |            | 0.002      | %            | PASS               |
| Identification         | PASS       |            | P/F          | PASS               |
| Loss on Drying         |            | 0.2        | %            | PASS               |
| Purity                 | 98.5       | 101.5      | %            | PASS               |
| Residue after Ignition |            | 0.1        | %            | PASS               |
| Specific Rotation      | +21.4      | +23.6      | degrees      | PASS               |
| Sulfate                |            | 0.03       | %            | PASS               |

Storage: Store at room temperature. Protect from moisture.

0877USP

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature:

Title:

QC MANAGER

Date:

6/13/2012