



## Specification

### L-Arginine Monohydrochloride USP

**Catalog Number:** AG1004  
**CAS Number:** 1119-34-2  
**Synonym(s):** (S)-(+)-2-Amino-5-[(aminoiminomethyl)amino]pentanoic acid monohydrochloride  
**Molecular Formula:**  $C_6H_{14}N_4O_2 \cdot HCl$   
**Molecular Weight:** 210.66  
**Storage:** Keep cool and dry  
**Retest Date:** Three years from the date of manufacture.

Test	Specification
Appearance	White crystalline powder
Assay (Dry Basis)	98.5 % to 101.0%
Identification	Positive
Specific Rotation	+22.10° to +22.90°
Moisture (LOD)	≤0.5%
pH	4.7 – 6.2
Residue on Ignition	≤0.4%
Other Amino Acids	Chromatographically not detectable
Organic Volatile Impurities	Meets the requirement
Chloride	16.50 – 17.10%
Ammonium	≤0.02%
Sulfate	≤0.03%
Arsenic	≤1.0ppm
Cadmium	≤1.0ppm
Heavy Metals	≤10.0ppm
Iron	≤10.0ppm
Lead	≤1.0ppm
Mercury	≤1.0ppm
Total Plate Count	≤1,000cfu/g
Yeast & Mold	≤100cfu/g
<i>E. Coli</i>	Negative
<i>Salmonella</i>	Negative

Approved:

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