



Certificate of Analysis

L-Arginine Monohydrochloride USP

Catalog Number: AG1004
Lot Number: 0522801
CAS Number: 1119-34-2
Synonym(s): (S)-(+)-2-Amino-5-[(aminoiminomethyl)amino]pentanoic acid monohydrochloride
Molecular Formula: C₆H₁₄N₄O₂ •HCl
Molecular Weight: 210.66
Storage: 15°C – 30°C
Date of Manufacture: January 5, 2018
Retest Date: January 4, 2021

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay (Dry Basis)	98.5 % to 101.0%	100.58%
Identification (IR)	To match standard	Conforms
Specific Rotation	+21.4° to +23.6°	22.46°
Solubility (50mg/mL)	Clear & colorless	Conforms
pH (10mg/mL)	4.7 – 6.2	5.63
Moisture (LOD)	≤ 0.2%	0.13%
Residue on Ignition	≤ 0.1%	0.08%
Chloride	16.50 – 17.10%	16.63%
Sulfate	≤ 0.03%	< 0.03%
Total Impurities	≤ 2.0%	< 2.0%
Individual Impurities	≤ 0.5%	< 0.5%
Heavy Metals	≤ 10ppm	< 10ppm
Arsenic	≤ 0.5ppm	< 0.5ppm
Cadmium	≤ 0.5ppm	< 0.5ppm
Iron	≤ 10ppm	< 10ppm
Lead	≤ 1ppm	< 1ppm
Mercury	≤ 0.1ppm	< 0.1ppm
Total Plate Count	≤ 1,000cfu/g	< 1,000cfu/g
Yeast & Mold	≤ 100cfu/g	< 100cfu/g
Coliforms	Negative/g	Negative
<i>E. Coli</i>	Negative/g	Negative
<i>Enterobacteriaceae</i>	Negative/10g	Negative
<i>Salmonella</i>	Negative/10g	Negative
<i>S. aureus</i>	Negative/g	Negative
<i>Bacillus sp.</i>	Negative/g	Negative
<i>Clostridium sp.</i>	Negative/g	Negative
This lot meets the specifications for USP39.		

For research purposes only. Not for drug or clinical use in humans or human food additive use.



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Date: May 22, 2018