

CERTIFICATION OF ANALYSIS

Product Name: L-Arginine Hydrochloride

Manufacture Date: 2020 Jan 03

Batch No.: 20010301

Quantity: 200KGS

Report Date: 2020 Jan 05

Expiry Date: 2022 Jan 02

Item	Specification	Result	Test Method
Appearance	White crystalline or crystalline powder	Conforms	Visual
Identification	Infrared Absorption	Conforms	USP<197K>
Specific rotation [α]D20	+21.4° to +23.6°	+22.1°	USP<781S>
Loss on drying	Not more than 0.2%	0.15%	USP<731>
Residue on ignition	Not more than 0.1%	0.08%	USP<281>
Chloride (Cl)	16.5 - 17.1%	16.8%	USP<541>
Sulfate(SO4)	Not more than 0.03%	Less than 0.03%	USP<221>
Heavy metals	Not more than 20ppm	Less than 20ppm	USP<231>
Chromatographic Purity	Not more than 0.5% of any individual impurity is found; Not more than 2.0% of total impurities is found.	Conforms	USP<621>
Assay	98.5% to 101.5%	99.7%	USP<541>
Conclusion:	This Batch is conforming with the standard of USP39.		