

## Specification Sheet

Product No: L799117  
 Product Name: L-Arginine Hydrochloride  
 CAS: 1119-34-2  
 Formula:  $C_6H_{14}N_4O_2 \cdot HCl$   
 Formula Weight: 210.66  
 Specification: USP  
 Version: 2023-12-20

Test	Specification	
	Min.	Max.
Appearance	White Crystalline Powder	
Assay(Perchloric acid titration, calc. on anhydrous substance)	98.5%	101.5%
Specific Rotation $[\alpha]_{20}^D(c=80\text{mg/mL in } 6M \text{ HCl})$	21.4°	23.6°
pH(1.0 g in 10 mL H <sub>2</sub> O)	4.7	6.2
Loss on Drying	0	0.2%
Ignition Residue (as sulfate)	0	0.1%
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0	0.03%
Chloride (Cl <sup>-</sup> )	16.5%	17.1%
Heavy metal(As Pb)	0	10ppm
Arsenic(As)	0	1ppm
Chromatographic purity(Individual impurities)	0	0.5%
Chromatographic purity(Total impurities)	0	2%
Infrared Spectrum	Conforms to Structure	
NMR	Conforms to Structure	