

CERTIFICATE OF ANALYSIS

Manufacturer	Zhangjiagang Shuguang Biochemical Factory	Reference standard	USP30
Product name	L-Arginine HCL	Batch No.	CP0725091701
Analysis date	2025.09.20	Manufacture date	2025.09.17
Expiry date	2028.09.16		

Item	Standard	Result
Identification	Infrared Absorption	Qualified
Specific rotation	+21.4° to +23.6°	+22.4°
Loss on drying	Not more than 0.2%	0.16%
Residue on ignition	Not more than 0.1%	0.03%
Sulfate	Not more than 0.03%	<0.03%
Heavy metals	Not more than 0.002%	<0.002%
Chromatographic purity	As per USP30 (By TLC)	Qualified
Individual impurity	≤0.5%	<0.5%
Total impurity	≤2.0%	<2.0%
Organic volatile impurities	Meets the requirements	Qualified
Chloride content	16.5% - 17.1%	16.79%
Assay	98.5 to 101.5%	99.4%