

CERTIFICATE OF ANALYSIS

PRODUCT NAME: L-Arginine hydrochloride,EP,JP,USP grade, 98.5%,for cell culture

ITEM NUMBER: A103485
 BRAND: Aladdin
 CAS NUMBER: 1119-34-2
 MDL NUMBER: MFCD00064550
 FORMULA: C₆H₁₄N₄O₂ · HCl
 MOLECULAR WEIGHT: 210.66

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
ammonium	0 %	0.02 %	0.02 %
Appearance	white crystalline powder		
arsenic	0 ppm	1 ppm	1 ppm
Cell culture test	pass		
Chloride(Cl)	16.58 %	17 %	17 %
Endotoxin Assay	0 EU/mg /	1 EU/mg /	1 EU/mg /
Heavy metals (as Pb)	0 ppm	10 ppm	10 ppm
Ignition residue (as sulfate)	0 %	0.1 %	0.1 %
Infrared spectrum	Conforms to Structure		
Iron(Fe)	0 ppm	10 ppm	10 ppm
Loss on drying	0 %	0.2 %	0.2 %
ninhydrin-positive substances (other amino acids)	conforms		
origin	non-animal source		
ph test(1.0g in 10ml water)	4.7	6.2	6.2
Purity(as anhydrous)	98.5 %	100 %	100 %
Residual solvent	meets the requirements		
solubility in water	Colorless , Clear , 100 mg in 1 mL H ₂ O		
Specific rotation [α] ₂₀ /D(c = 8 in 6m hydrochloric	+22.1 °	22+9 °	+22.9 °

acid)			
Sulfate	0 %	0.02 %	0.02 %