



Certificate of Analysis

Product	20969 - L-Arginine (free base) for cell culture, 99%, Endotoxin (BET) 0.05EU/mg - [74-79-3]
Batch No	3425031
Analysis Date	05-Jun-2022
Date of Manufacture	June 2022
Expiry Date/Re-Test Date	June 2027
Molecular Formula	C6H14N4O2
Molecular Weight	174.20

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% aq. solution	Clear	Clear
Solubility (Colour) 10% aq. solution	Colourless	Colourless
Assay	min. 99%	99.6%
Specific rotation [α]	+26.2° to +27.2° (C=2, 5N HCl)	+26.3°
Loss on drying	max. 0.5%	0.2%
Sulphated Ash	max. 0.1%	0.08%
Chloride (Cl)	max. 0.01%	Passes
Sulphate (SO4)	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH4)	max. 0.01%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Cell Culture	Passes	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	<0.05 EU/mg	Passes