



Certificate of Analysis

Product	49102 - L-Tryptophan for tissue culture, 99% - [73-22-3]
Batch No	6701830
Analysis Date	26-Jun-2022
Date of Manufacture	June 2022
Expiry Date/Re-Test Date	June 2027
Molecular Formula	C ₁₁ H ₁₂ N ₂ O ₂
Molecular Weight	204.23

Test Parameters	Standards	Actual Results
Appearance (Colour)	White to off-white	Off-white
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution in hot 5N HCl	Clear	Clear
Assay	min. 99%	99.9%
Specific rotation [α]	-33° to -30°, (C=1,water)	-30.9°
Loss on drying	max. 0.5%	0.3%
Sulphated Ash	max. 0.1%	0.06%
Chloride (Cl)	max. 0.01%	Passes
Sulphate (SO ₄)	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH ₄)	max. 0.01%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Tissue Culture	Passes	Passes