

Certificate of Analysis

Date of Testing: 2022-04-01 11:40:00
 Date of Next Testing: 2026-03-31 11:40:00
 Product Name: **L-Tyrosine**
 CAS Number: 60-18-4
 Specifications & Purity: from non-animal source,EP,JP,USP ; for cell culture,99.0 - 101.0 %
 Lot #: E1811066
 SKU #: **T115962**
Analysis: **086006**
 Storage Temperature: Protected from light

Parameter	Limit Values	Result
Ammonia (NH ₄)	0-0.02 (%)	0.01 %
Loss on drying	0-0.3 (%)	0.20 %
Chloride	0-0.04 (%)	0.02 %
Heavy metals	0-15 (ppm)	3.00 ppm
Ignition Residue	0-0.4 (%)	0.20 %
Sulfate(SO ₄ ²⁻)	0-0.04 (%)	0.02 %
Assay	99-101 (%)	99.90 %
Iron(Fe)	0-30 (ppm)	14.00 ppm
Specific Rotation [α] ₂₀ /D(c=5 in 1 M HCl)	-12.1--11.3 (°)	-11.50 °
Appearance (T115962)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Cell Culture Test	pass	Pass
Identity by IR	Conforms to Structure	Conforms to Structure
Origin	non-animal source	non-animal source
Residual solvents	complies	complies
Solubility in 1 M HCl , Colorless to faint yellow,Clear , 25mg/ml	pass	Pass



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager