

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-14 17:32:41
 Date of Next Testing: 2028-07-13 17:32:41
 Product Name: **L-Tyrosine**
 CAS Number: 60-18-4
 Specifications & Purity: UltraBio™, Moligand™, ≥99%
 Lot #: G2511582
 SKU #: **L755704**
 Version: **1**
 Analysis #: **533999**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Loss on drying	0-0.2 (%)	0.03300 %
Residue on Ignition	0-0.1 (%)	0.00780 %
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.02000 ppm
Sodium(Na)	0-200 (ppm)	115.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Arsenic(As)(MHS-AAS)	0-0.1 (ppm)	0.00000 ppm
Total sulfur as SO4 (ICP)	0-300 (ppm)	34.00000 ppm
Chloride (Cl-)	0-400 (ppm)	44.00000 ppm
cut-off	0-310 (nm)	309.00000 nm
Assay(Titration by HClO4)	99-101 (%)	99.24000 %

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Specific rotation $[\alpha]_{20/D}(C=4 \text{ in Hydrochloric Acid } 1M)$	-12.5~-10.5 (°)	-10.51000°
Ammonia (NH ₄)	0-200 (ppm)	200.00000 ppm
Calcium(Ca)	0-10 (ppm)	10.00000 ppm
Appearance(L755704)	Colorless or White Powder or Crystals	Colorless or White Powder or Crystals
Solubility(Clear Colorless,750 mg in 30 ml 1M HCl,Hot)	Pass	Pass
Filter Test:750 mg in 30 ml 1M HCl,Hot	No Residue	no residue
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager