

Certificate of Analysis

Date of Testing: 2023-12-20 10:34:56

Date of Next Testing: 2027-12-19 10:34:56

Product Name: **DL-Tyrosine**

CAS Number: 556-03-6

Specifications & Purity: 98%

Lot #: L2308076

SKU #: **T108322**

Version: **0**

Analysis #: **053862**

Storage Temperature: Protected from light

Parameter	Limit Values	Result
Carbon by Elemental Analysis	58.8-60.6 (%)	59.17 %
Nitrogen by Elemental Analysis	7.4-8 (%)	7.44 %
Specific Rotation $[\alpha]_{20/D}(c=5 \text{ in } 1\text{mol/L HCl})$	-0.5-0.5 (°)	-0.17 °
Purity(NonaqueousTitration)	97.5-102.5 (%)	99.64 %
Purity(HPLC)	98-100 (%)	98.06100 %
Appearance (T108322)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in 1 N HCl , Colorless to Faint Yellow,Clear to Slightly Hazy5%	pass	Pass



John Su
QA & QC Manager