

Certificate of Analysis

Date of Testing: 2025-04-21 10:35:49

Date of Next Testing: 2029-04-20 10:35:49

Product Name: **DL-Tryptophan**

CAS Number: 54-12-6

Specifications & Purity: $\geq 99\%$

Lot #: D2518548

SKU #: **T103482**

Version: **0**

Analysis #: **393339**

Storage Temperature: Protected from light, Desiccated

Parameter	Limit Values	Result
Carbon by Elemental Analysis	64-65.3 (%)	64.41 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O plus 2 drops 6N HCl})$	-1-1 (°)	-0.88 °
Purity(HPLC)	99-100 (%)	100.00000 %
Nitrogen by Elemental Analysis	13.4-14 (%)	13.83 %
Appearance (T103482)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Solubility 1M HCl , Colorless to Yellow, Clear to Slightly Hazy, 10mg/ml	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager