

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-02-25 21:46:50

Date of Next Testing: 2026-02-24 21:46:50

Product Name: **D-Tryptophan**

CAS Number: 153-94-6

Specifications & Purity: 98%

Lot #: B2223383

SKU #: **T105704****Analysis: 065513**

| Parameter | Limit Values | Result |
|--|------------------------------|------------------------------|
| Purity(HPLC) | 98-100 (%) | 98.82490% |
| L-isomer | 0-1 (%) | 0.50% |
| Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O) | 29-33 (°) | 30.74° |
| Carbon by Elemental Analysis | 63-67 (%) | 65.02% |
| Nitrogen by Elemental Analysis | 13.4-14.1 (%) | 14.06% |
| Appearance (T105704) | White to Off-White Powder | White to Off-White Powder |
| Solubility in 0.5 M HCl , Colorless to Dark Yellow Clear to Hazy,50mg/ml | pass | Pass |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |

John Su
QA & QC Manager