

## Certificate of Analysis

Date of Testing: 2024-07-13 17:16:24  
Date of Next Testing: 2028-07-12 17:16:24  
Product Name: **D-Tryptophan**  
CAS Number: 153-94-6  
Specifications & Purity: 98%  
Lot #: G2411479  
SKU #: **T105704**  
Version: **2**  
Analysis #: **367097**

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.00000 %
L-isomer	0-1 (%)	0.85 %
Specific Rotation [a] <sub>D</sub> 20/D(c=1 in H <sub>2</sub> O)	29-33 (°)	30.06 °
Nitrogen by Elemental Analysis	13.4-14.1 (%)	13.43 %
Carbon by Elemental Analysis	63-67 (%)	64.50 %
Appearance (T105704)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in 0.5 M HCl , Colorless to Dark Yellow Clear to Hazy,50mg/ml	pass	Pass



John Su  
QA & QC Manager