

## Certificate of Analysis

Date of Testing: 2023-07-24 13:21:24  
 Date of Next Testing: 2027-07-23 13:21:24  
 Product Name: **D-Tryptophan**  
 CAS Number: 153-94-6  
 Specifications & Purity: 98%  
 Lot #: G2315056  
 SKU #: **T105704**  
 Analysis: **065513**

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.82490%
L-isomer	0-1 (%)	0.50%
Specific Rotation [α] <sub>20</sub> /D(c=1 in H <sub>2</sub> 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