

CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

Catalogue T947200 Number:

Product: D,L-Tryptophan

Structure:

 H_{N} NH_{2} $CO_{2}H$

CAS Number: 54-12-6

Synonym: (+/-)-Tryptophan; 1H-Indole-3-alanine; DL-

a-Amino-3-indolepropionic Acid; NSC 13118;

Molecular Formula:

C₁₁H₁₂N₂O₂

Molecular weight:

204.23

Source of Product:

N/A

Solubility:

3.8 mg/mL in Aqueous Base, Only Soluble in Aqueous Base

Lot Number: 1-AMZ-103-1

Shipping This Product Is Stable To Be **Condition:** Shipped At Room Temperature

Purity: 98%

Storage Condition: 4°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests:Specifications:Results:AppearanceWhite to Off-White SolidWhite SolidNMRConforms to StructureConformsMSConforms to StructureConforms

Elemental Analysis Conforms %C: 65.06, %H: 5.89, %N: 13.63

HPLC Purity Report Result 100.00% (220 nm)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By Reviewed By C of A Approved By Test Date Retest Date

Farnaz Mahmoudi Toni Rantanen Chanell Chu 1/22/2023 1/20/2030

Farnaj Tt.

Anto-

Charell Su