



## CERTIFICATE OF ANALYSIS

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### 1. Identification

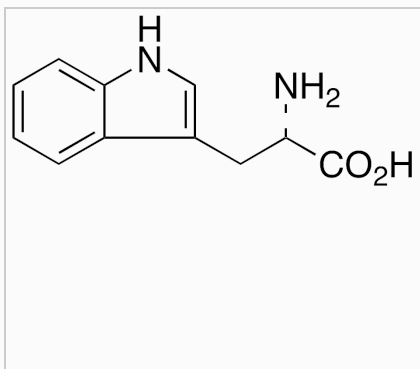
Catalogue Number: T947210

CAS Number: 73-22-3

Product: L-Tryptophan

Synonym: (-)-Tryptophan; (-)-1H-Indole-3-alanine; L-?-Amino-3-indolepropionic Acid; NSC 13119; L-?-Aminoindole-3-propionic Acid; (S)-2-Amino-3-(3-indolyl)propionic acid

Structure:



Molecular Formula:

C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>

Molecular weight:

204.23

Source of Product:

N/A

Solubility:

Aqueous Acid (Slightly),  
Water (Slightly)

Lot Number: 711965826-4-2

Purity: 98%

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

Storage Condition: -20°C

### 2. Warning

Warning 1:

Warning 2:

Warning 3:

### 3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 64.37, %H: 5.80, %N: 13.59
HPLC Purity	Report Result	98.99% (220 nm)
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Appearance	White to Pale Beige Solid	Off-White to Pale Beige Solid
Specific Rotation	Report Result	-30.0° (c = 0.1, Water)

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 ± 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
swathi reddy	Toni Rantanen	Chanell Chu	3/4/2024	3/2/2028