

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-03-13 10:46:12

Date of Next Testing: 2027-03-13 10:46:12

Product Name: **D-Tryptophan Benzyl Ester Hydrochloride**

CAS Number: 22839-16-3

Specifications & Purity: $\geq 98\%(N)$

Lot #: E2330884

SKU #: **S135591**

Version **0**

Analysis #: **480520**

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.57500 %
Nitrogen by Elemental Analysis	7.8-9 (%)	8.40 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in DMF})$	-35--30 (°)	-32.20 °
Appearance (S135591)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager