

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 #: E2330902
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 ($^{\circ}$)	-32.20 $^{\circ}$
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



John Su
QA & QC Manager