

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-19 14:14:04

Date of Next Testing: 2026-12-18 14:14:04

Product Name: **Ethyl (S)-(-)-1-Ethyl-2-pyrrolidinecarboxylate**

CAS Number: 938-54-5

Specifications & Purity: $\geq 98\%$

Lot #: L2208849

SKU #: **E156312**

Version: **1**

Analysis #: **148062**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.10000 %
Specific Rotation [α] ₂₀ /D(c=c=0.6, CHCL ₃)	-98~-90 (°)	-92.90000 °
Appearance(E156312)	Colorless to Light orange to Yellow clear liquid	Colorless to Light orange to Yellow clear liquid
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager