

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-01 09:28:57
 Date of Next Testing: 2027-07-31 09:28:57
 Product Name: **Ethyl (S)-(-)-1-Ethyl-2-pyrrolidinecarboxylate**
 CAS Number: 938-54-5
 Specifications & Purity: $\geq 98\%$
 Lot #: G2318786
 SKU #: **E156312**
 Version: **1**
 Analysis #: **155537**
 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