

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-01-07 16:42:11
 Date of Next Testing: 2029-01-06 16:42:11
 Product Name: (S)-(+)-3-Piperidinecarboxylic acid
 CAS Number: 59045-82-8
 Specifications & Purity: ≥98%
 Lot #: F1305024
 SKU #: P119071
 Version: 4
 Analysis #: 458541
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Titration by HClO ₄)	98-103.5 (%)	98.02480 %
Specific Rotation [α] _{20/D} (c=1 in H ₂ O)	3-6.5 (°)	5.29800 °
Appearance (P119071)	White to Tan Solid, Powder, Crystals, Crystalline Powder and/or Chunks	White to Tan Solid, Powder, Crystals, Crystalline Powder and/or Chunks
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager