

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-12 11:38:38
Date of Next Testing: 2027-07-11 11:38:38
Product Name: **(S)-(+)-3-Piperidinecarboxylic acid**
CAS Number: 59045-82-8
Specifications & Purity: 98%
Lot #: G23051004
SKU #: **P119071**
Analysis: **205833**

Parameter	Limit Values	Result
Purity(Titration by HClO ₄)	98-103.5 (%)	99.50%
Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O)	3-6.5 (°)	3.12°
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