

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-12 16:48:47
Date of Next Testing: 2027-07-11 16:48:47
Product Name: **(S)-(+)-3-Piperidinecarboxylic acid**
CAS Number: 59045-82-8
Specifications & Purity: 98%
Lot #: G23051005
SKU #: **P119071**
Analysis: **198618**

Parameter	Limit Values	Result
Purity(Titration by HClO ₄)	98-103.5 (%)	98.39%
Specific Rotation [α] ₂₀ /D(c=5 in H ₂ O)	5-6 (°)	5.06°
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