

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-03-08 16:18:19  
Date of Next Testing: 2024-02-26 16:18:19  
Product Name: **5-Norbornene-2-carboxylic acid (mixture of endo and exo)**  
CAS Number: 120-74-1  
Specifications & Purity: 99%  
Lot #: C2205004  
SKU #: **N111450**  
**Analysis:** **070450**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration)	98.5-101.5 (%)	100.30 %
Refractive index n <sub>20</sub> /D	1.494-1.497	1.50
Purity( (sum of isomers)(GC)	99-100 (%)	99.03 %
Density (20°C)	1.131-1.135	1.13
Appearance (N111450)	Colorless to White to light Yellow Liquid or Solid	Colorless to White to light Yellow Liquid or Solid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager