

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-20 13:22:34

Date of Next Testing: 2025-04-19 13:22:34

Product Name: (-)- α -Phellandrene

CAS Number: 4221-98-1

Specifications & Purity: Moligand™, $\geq 65\%$ (GC)

Lot #: D23141035

SKU #: A151161

Version: 0

Analysis #: 194521

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation [a] ₂₀ /D	-190--140 (°)	-185.00000 °
Purity(GC)	65-100 (%)	86.20000 %
Appearance (A151161Color)	Colorless to Light yellow to Light orange clear	Colorless to Light yellow to Light orange clear
Appearance (A151161Form)	Liquid	Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager