

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-03-23 18:43:25  
 Date of Next Testing: 2028-03-12 18:43:25  
 Product Name: (-)- $\alpha$ -Pinene  
 CAS Number: 7785-26-4  
 Specifications & Purity: analytical standard,  $\geq 99\%$   
 Lot #: C2620471  
 SKU #: P110875  
 Version: 0  
 Analysis #: 680152  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                      | Limit Values          | Result                |
|------------------------------------------------|-----------------------|-----------------------|
| Purity(GC)                                     | 99-100 (%)            | 99.12500 %            |
| Specific Rotation [a] <sub>20</sub> /D(c=Neat) | -52--39 (°)           | -39.60000 °           |
| Refractive index n <sub>20</sub> /D            | 1.464-1.468           | 1.46450               |
| Appearance (P110875)                           | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum                              | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager