

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2025-06-09 13:36:26

Date of Next Testing: 2029-06-08 13:36:26

Product Name: (1R,2S,5R)-(-)-Menthyl (S)-p-Toluenesulfinate

CAS Number: 1517-82-4

Specifications & Purity: ≥98%

Lot #: H2131429

SKU #: M121128

Version: 1

Analysis #: 520666

Storage Temperature: Store at -20°C, Argon charged

| Parameter                                              | Limit Values                                      | Result                                            |
|--------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Carbon by Elemental Analysis                           | 67.6-71.1 (%)                                     | 69.50000 %                                        |
| Specific Rotation [α] <sub>20</sub> /D(c=2 in Acetone) | -205--190 (°)                                     | -204.40000 °                                      |
| Melting point                                          | 100-106 (°C)                                      | 105.80000 °C                                      |
| Purity(HPLC)                                           | 98-100 (%)                                        | 98.70000 %                                        |
| Appearance (M121128)                                   | white to off-white powder, crystals and/or chunks | white to off-white powder, crystals and/or chunks |
| Infrared spectrum                                      | Conforms to Structure                             | Conforms to Structure                             |
| Proton NMR spectrum                                    | Conforms to Structure                             | Conforms to Structure                             |



John Su  
QA & QC Manager