

Certificate of Analysis

Date of Testing: 2023-06-16 16:26:00

Date of Next Testing: 2027-06-15 16:26:00

Product Name: **DL-Menthol**

CAS Number: 89-78-1

Specifications & Purity: 98%

Lot #: F2303459

SKU #: **M105138**

Analysis: **224475**

Storage Temperature: Store at 2-8°C

| Parameter | Limit Values | Result |
|--|---------------------------------|---------------------------------|
| Purity(GC) | 98-100 (%) | 99.51% |
| Specific Rotation [α] ₂₀ /D(c=10 in 95% EtOH) | -2-2 (°) | 0.59° |
| Melting point | 32-36 (°C) | 34.20000 °C |
| Appearance (M105138) | white solid or colorless liquid | white solid or colorless liquid |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in 95% EtOH , Colorless clear(c = 1 ml/1 ml) | pass | Pass |



John Su
QA & QC Manager