



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

(L-Menthol, Natural 天然 L - 薄荷醇)

Issue Date: 28 FEB 2026 Quality Release Date: 28 FEB 2026

Product Name

L-Menthol, Natural (天然 L - 薄荷醇)

Product Information

Product Number LMN-20260228

Batch Number LMN-SH2026022801

Brand SIGALD

CAS Number 2216-51-5

MDL Number MFCD00064264

Formula $C_{10}H_{20}O$

Formula Weight 156.27 g/mol

Form Colorless to white crystalline solid/needles, characteristic mint odor

Test Results

Test	Specification (Industry/Food/Cosmetic Standard)	Result	Unit	Test Method
Appearance (Color/Form)	Colorless-white crystalline solid, no foreign impurity	White crystalline needles	-	Visual Inspection (25°C)
Assay (L-Menthol)	≥ 99.0%	99.5%	%	High Performance Liquid Chromatography (HPLC)
Specific Rotation [α] ₂₀ ^D	-45.0 ~ -50.0°	-47.8°	°	Automatic Polarimeter Method
Melting Point	41 ~ 44°C	42.5°C	°C	Capillary Melting Point Apparatus
Loss on Drying (105°C, 2h)	≤ 0.5%	0.18%	%	Gravimetric Method
Residue on Ignition	≤ 0.05%	0.02%	%	550°C Muffle Furnace Ignition
Residual Solvent (Ethanol)	≤ 0.5%	0.12%	%	Gas Chromatography (GC)
Heavy Metals (Pb)	≤ 5 ppm	0.4 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.08 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Total Bacterial Count	≤ 100 CFU/g	12 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Solubility (95% Ethanol, 25°C)	1 g in 0.2 mL, clear solution	Conforms	-	Solubility Test
Solubility (Water, 25°C)	1 g in 80 mL, slightly turbid	Conforms	-	Solubility Test

Certification

This batch of product has been tested in accordance with international food/cosmetic/pharmaceutical/industrial grade standards for natural L-menthol and meets all specified requirements. It is qualified for use in food, cosmetic, pharmaceutical, daily chemical and other related fields.