

✓ ANHUI PROVINCE YIFAN SPICE CO., LTD.

SECTION B, TAIHE INDUSTRIAL DISTRICT TAIHE,ANHUI,CHINA

CERTIFICATE OF ANALYSIS

Product name:	PEPPERMINT OIL ✓		
Factory name:	ANHUI PROVINCE YIFAN SPICE CO., LTD		
Prod. Date	JUN 29, 2025	Batch Number	PPO-1/25055 ✓
Expiry date:	JUN 28, 2028 ✓	Spaces (NET)	50KG/Drum (10drums)
Test standard:	USP43	Quantity	500KGS
Invoice No.:	YIFAN25069		
Item:	Standard / Analytical method USP43		Test Result:
Appearance:	Slightly Yellow Clear Liquid, Color No.6 Max / Sensory analysis		Conformed
Odor:	Have a Characteristic Odor Of Menthol Arvensis / Sensory analysis		Conformed
Identification:	Conform USP43		Conformed
Relative Density(20/20°C):	0.896-0.908 The same volume of peppermint oil and distilled water of quality ratio(20°C)		0.896
Refractive Index(20°C):	1.459-1.465 / Join the samples after test to read data(20°C)		1.459
Optical Rotation(20°C):	-18 ° ~ -32 ° Join the samples after test to read data(20°C)		-21.4°
Ester Content: (Menthylacetate %)	>5.0 The samples after acetylation, and then ester content accounting again		5.26
Acid Value(mg KOH/g)	1.0 Max Using the sodium hydroxide standard solution to neutralize the free acid in the samples		0.7
Solubility(20°C 70% Ethanol):	1ml:3ml 1 Volume Soluble In 3 Volumes of 70 %(V/V) Alcohol, Forming Clear Solution		Conformed
Heavy Metals:	Not more than 20 ppm		0.3ppm
Limit of Dimetil Sulfide	Conform USP43		Conformed
Total Menthol content:	50.0% Min After acetylation to calculate the free alcohol and specify the alcohol, and then checking the total alcohol content in the samples		51.7%
L-Menthol Content:	28%-40% / By GC		34.77%
α-pinene	/ By GC		2.84%
β-pinene	/ By GC		3.94%
Limonene	/ By GC		8.19%
Total Water Content:	Not more than 0.05%		Conformed
RESULT:	THE ABOVE MATERIALS CONFORM TO USP43		

Analysed by:

李雪梦

Rechecked by:

周强

Q. C. In-charge:

周强

