

ANHUI PROVINCE YIFAN SPICE CO., LTD.

SECTION B, TAIHE INDUSTRIAL DISTRICT TAIHE, ANHUI, CHINA

CERTIFICATE OF ANALYSIS

Product name:	PEPPERMINT OIL 50%		
Factory name:	ANHUI PROVINCE YIFAN SPICE CO., LTD		
Prod. Date	28 SEP, 2024	Batch Number	PPO-1/24090
Expiry date:	27 SEP, 2027	Spaces (NET)	50KGS/Drums (40drums)
Test standard:	USP47	Quantity	2000KGS
Invoice No.:	YIFAN24104		
Item:	Standard / Analytical method USP47		Test Result:
Appearance:	Colorless or pale yellow liquid, having a strong, penetrating, characteristic odor and a pungent taste, followed by a sensation of cold when air is drawn into the mouth		Conformed
Identification:	Analysis: Place the Sample in a dry test tube and mix with 5 mL of a 1-in-300 solution of nitric acid in glacial acetic acid, and place the tube in a beaker of boiling water. Acceptance criteria: Within 5 min the liquid develops a blue color that, on continued heating, deepens and shows a copper-colored fluorescence and then fades, leaving a golden-yellow solution.		Within 5 min the liquid develops a blue color that, on continued heating, deepens and shows a copper-colored fluorescence and then fades, leaving a golden-yellow solution
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)		-21.8°
Total Esters	NLT 5.0% The samples after acetylation, and then ester content accounting again		5.1
Solubility(20°C 70% Ethanol):	One volume dissolves in 3 volumes of 70% alcohol, with NMT slight opalescence		Conformed
Heavy Metals:	Less than or equal to 40bpj		Conformed
Limit of Dimethyl Sulfide	Analysis: Distill 1 mL from 25 mL of Oil, and carefully superimpose the distillate on 5 mL of mercuric chloride TS in a test tube. Acceptance criteria: A white film does not form at the zone of contact within 1 min.		A white film does not form at the zone of contact within 1 min
Total Menthol content:	NLT 50.0% After acetylation to calculate the free alcohol and specify the alcohol, and then checking the total alcohol content in the samples		50.1%
RESULT:	THE ABOVE MATERIALS CONFORM TO USP47		

Inspector Name: Qiang Tao

Position: QC

Signature:

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Stamp:



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