



The highest quality natural products at the best possible price

Date: March 20, 2024

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Sample Name: NGMO Peppermint Oil, Natural P57585BLN3344724 (FID)

Sample Source: Mentha x piperita

ANALYSIS

Method: Essential oil GC profile by GC-FID and MS

Analysis date: March 20, 2024

Analyst: Joey Hua

Reviewed by: Raquel Davis

Raquel Davis

Approved by: Louis DeMers

Louis DeMers 03-21-2024

Comment:

This oil does comply with the NOW Foods in-house standard for peppermint essential oil.



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Identification	Area%
Isovaleraldehyde	0.02
2-Methylbutyaldehyde	0.01
2-Ethylfuran	tr
Isoamyl alcohol	0.01
2-Methylbutanol	0.01
Ethyl 2-methylbutyrate	tr
2,5-Diethyltetrahydro-Furan	0.02
a-Thujene	0.04
a-Pinene	0.86
Camphene+(0.02% 3-Methyl-cyclohexanone by MSD)	0.05
Thuja-2,4(10)-diene?	tr
Sabinene	0.34
b-Pinene	1.24
3-Octanone	0.03
b-Myrcene	0.16
3-Octanol	0.12
Pseudolimonene	0.01
a-Phellandrene	0.02
a-Terpinene	0.12
p-Cymene	0.28
Limonene	2.11
1,8-Cineole	5.08
Z-beta-Ocimene	0.11
E-beta-Ocimene	0.03
g-Terpinene	0.28
cis-Sabinene hydrate	0.23
a-Terpinolene	0.06
trans-Sabinene hydrate	tr
Linalool	0.11
2-Methylbutyl 2-methylbutyrate	0.01
Unknown (85,70,57,55,43,103)	0.01
cis-p-Menth-2-en-1-ol	tr
Isopulegol	0.03



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Identification	Area%
Menthone	27.24
Menthofuran	3.46
Isomenthone	3.65
Neomenthol	3.36
trans-Isopulegone	0.02
Menthol	37.75
iso-Menthol	0.35
neoiso-Menthol	0.08
a-Terpineol	0.25
Unknown (148,95,81,79,147)	0.02
Pulegone	1.32
(-)-Carvone	0.04
Piperitone	0.35
neo-Menthyl Acetate	0.16
Unknown (55,41,70,43,56)	0.12
Dihydroedulan	0.02
Menthyl acetate	5.11
3-para-Menthene	0.11
Unknown (79,43,93,91,107)	0.01
Unknown (121,93,79,91,107)	0.02
Menthofurolactone	tr
Unknown(119,105,93,91,161)	tr
a-Copaene	0.03
b-Bourbonene	0.17
Unknown(119,105,95,94,91,135,134)	tr
b-Elemene	0.08
Unknown (204,189,91,119,105)	0.01
Unknown (91,93,105,119,79)	0.02
Unknown (91,61,119,79,81,93)	0.02
Caryophyllene	3.19
Unknown (91,93,95,69,120,81)	0.01
b-Copaene	0.03
Unknown (91,93,79,161)	0.01



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Identification	Area%
Unknown (161,105,91,93,79,41)	0.01
Isogermacrene D	0.02
E-b-Farnesene	0.15
Humulene	0.06
Unknown (91,105,93,161,93,81)	0.02
cis-Muurolo-4(15),5-diene	0.01
g-Muuroloene	0.02
Germacrene D	0.83
Unknown (91,105,161,119,93)	0.01
Bicyclogermacrene+(0.002% Menthalactone by MSD)	0.14
Unknown (105,91,93,161,204)	0.02
epi-Cubebol	0.01
d-Cadinene	0.05
Caryophyllene oxide	0.10
Viridiflorol	0.12
Total	100.00

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