



The highest quality natural products at the best possible price

Date: September 08, 2022

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Sample Name: NGMO Peppermint Oil P57585BLN3267209 (FID)

Sample Source: Mentha x piperita

ANALYSIS

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

Analysis date: September 08, 2022

Analyst: Joey Hua

Reviewed by: Rima Juskelis

Rima Juskelis

Approved by: Louis DeMers

Louis DeMers

09-09-2022

Comment:

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



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NGMO Peppermint Oil P57585BLN3267209 (FID)

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Identification	Area%
Isoamyl alcohol	tr
2-Methylbutanol	tr
Ethyl 2-methylbutyrate	tr
3-Hexenol	0.01
1-Hexanol	tr
2,5-Diethyltetrahydro-Furan	0.01
Hashishene	tr
a-Thujene	0.02
a-Pinene	0.79
Unknown (91,92,119,41,81)	tr
Camphene+(0.02% 3-Methyl-cyclohexanone by MSD)	0.06
Thuja-2,4(10)-diene?	0.01
Sabinene	0.28
b-Pinene	0.98
3-Octanone	0.01
b-Myrcene	0.11
3-Octanol	0.17
Pseudolimonene	0.01
a-Phellandrene	0.01
a-Terpinene	0.10
p-Cymene	0.16
Limonene	2.23
1,8-Cineole	4.42
Z-beta-Ocimene	0.07
E-beta-Ocimene	0.03
g-Terpinene	0.13
cis-Sabinene hydrate	0.20
a-Terpinolene	0.04
trans-Sabinene hydrate	0.02
Linalool	0.14
2-Methylbutyl 2-methylbutyrate	0.01
Unknown (85,70,57,55,43,103)	0.02
cis-p-Menth-2-en-1-ol	0.01



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Identification	Area%
trans-p-Mentha-2,8-dien-1-ol	0.03
Isopulegol	0.09
Menthone	25.84
Menthofuran	1.13
Isomenthone	3.77
Neomenthol	3.39
trans-Isopulegone	0.01
Menthol+(0.61% Terpinen-4-ol by MSD)	43.88
iso-Menthol	0.35
neoiso-Menthol	0.22
a-Terpineol	0.30
Unknown (119,91,93,67,41)	0.02
Unknown (93,91,81,55,41,121,136)	0.05
Pulegone	0.67
(-)-Carvone	0.04
Piperitone	0.36
neo-Menthyl Acetate	0.11
trans-2-Decenal	0.04
Dihydroedulan	0.02
Menthyl acetate	5.71
3-para-Menthene	0.07
Unknown (121,93,91,95,81)	0.01
Unknown (121,93,79,91,107)	0.11
Unknown (161,105,119,120,93)	0.01
a-Copaene	0.04
Unknown (81,80,107,163)	0.01
b-Bourbonene	0.13
b-Elemene	0.07
b-Cubebene	0.02
Caryophyllene	2.59
b-Copaene	0.07
cis-a-Bergamotene	0.01
Unknown (161,91,105,79,93,204)	0.02



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Identification	Area%
Isogermacrene D	0.05
E-b-Farnesene	0.05
Humulene	0.04
Unknown (161,105,91,119,81)	0.01
g-Muurolene	0.03
Germacrene D	0.36
Bicyclogermacrene	0.06
Viridiflorene	0.06
a-Muurolene	0.01
d-Cadinene	0.04
Caryophyllene oxide	0.04
Viridiflorol	0.01
Total	100.00

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