

## Ammi Visnaga Ammi visnaga

Batch No. MA-59284  
 Morocco

### Monoterpenes 11.2%

(E) $\beta$ ocimene	3.92
(Z) $\beta$ ocimene	1.78
$\beta$ pinene	1.06
limonene	1.03
sabinene	0.97
myrcene	0.93
$\alpha$ thujene	0.47
alloocimene	0.36
$\alpha$ pinene	0.23
ortho-cymene	0.23
terpinolene	0.17
para cymenene	0.03
camphene	0.02

### Monoterpenols 45.47%

linalool	43.84
$\alpha$ terpineol	0.90
terpinen-4-ol	0.26
cis linalol oxide	0.15
geraniol	0.12
trans linalol oxide	0.07
nerol	0.04
citronellol	0.03
lavandulol	0.03
(Z) para-menth-2-en-1-ol	0.02
para-mentha-1,5-dien-8-ol	0.01

### Aldehydes 0.06%

p-1-menth-9	0.06
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### Ethers 0.11%

1,8 cineole	0.06
$\alpha$ pinene oxide	0.05

### Esters 32.901%

2 methylbutyl isobutyrate	11.49
2-methyl butyl isovalerate	6.83
isobutyl 2-methylbutyrate	3.52
isoamyl isovalerate	3.17
isoamyle isobutyrate	2.08
isobutyl isobutyrate	1.71
3-methyl-2-butenyl-3-methyl butanoate	0.92
lavandulyl 2-methylbutyrate	0.65
lavandulyl isobutanoate	0.59
prenyl isobutyrate	0.44
citronellol isobutanoate	0.33
benzyl isovalerate	0.27
prenylethyl isobutyrate	0.12
2-phenylethyl 3-methylbutyrate	0.12
cis 3 hexenyl isovalerate	0.11
lavandulyl acetate	0.10
3-methyl-2-butenyl 3-methyl-butanoate	0.10
geranyl isobutyrate	0.10
isopentyl butanoate	0.08
geranyl butyrate	0.04
cis 3 hexenyl butyrate	0.03
ethyl isovalerate	0.03
bornyl acetate	0.02
isoamyl tiglate	0.02
geranyl 2-methylbutyrate	0.02
methyl citronellate	0.01

### Ketones 1.11%

pulegone	1.02
menthone	0.04
isopulegone	0.03
piperitenone	0.02

### Sesquiterpenes 1.66%

germacrene D	0.6
(E) $\beta$ farnesene	0.19
$\beta$ sesquiphellandrene	0.19
$\beta$ bourbonene	0.19
$\alpha$ copaene	0.12
$\beta$ caryophyllene	0.12
$\beta$ copaene	0.05
$\delta$ cadinene	0.05
(E) $\alpha$ bergamotene	0.03
aromadendrene	0.03
$\beta$ elemene	0.03
$\alpha$ humulene	0.02
bicyclogermacrene	0.02
6,9 guaiadiene	0.01
$\gamma$ muurolene	0.01

### Other 2.64%

Unknown	2.39
<6#, 10E-> pseudo phytol	0.13
2-methylbutyric acid	0.04
phytol	0.02
pentacosane	0.02
1-octen-3-ol	0.01
3 octanol	0.01
tridecane	0.01
heptacosane	0.01

### Phenols 0.03%

methyl chavicol	0.02
methyl eugenol	0.01

Client



Source

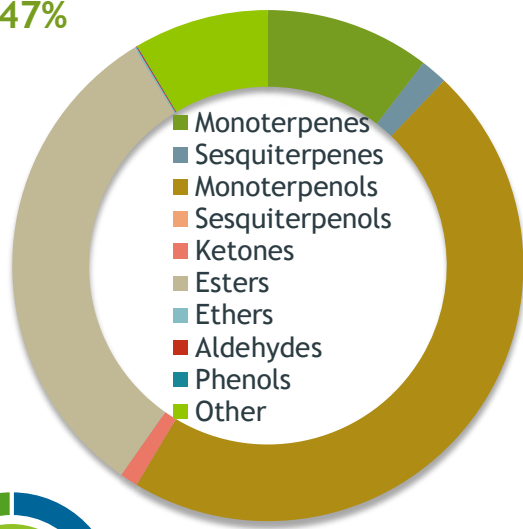
Ammi Visnaga (Ammi visnaga (Khella Oil))  
MA-59284

Sample

Ammi Visnaga (Ammi visnaga (Khella Oil))  
Batch #:..... MA-59284  
Type:..... Essential Oil  
CAS Number:.....  
Nature's Gift

Monoterpenols

45.47%



Client

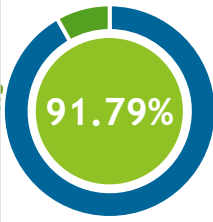


Website



Primary

43.84% | Linalool  
11.49% | 2-Methylbutyl isobutyrate  
6.83% | 2-Methyl Butyl



Percentage Identified

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Ammi Visnaga (Ammi visnaga (Khella Oil))

Internal Number: | EVS-5331



Essential Validation Services

747 SW 2nd Ave IMB 12 Suite 306  
Gainesville, FL 32601

317.361.5044 |  
<https://essentialvalidationservices.com/>

*Alan Christen*

Monoterpenes	10.20%	10.20%
Sesquiterpenes		1.66%
Monoterpenols	45.47%	45.47%
Sesquiterpenols		0.00%
Ketones		1.11%
Esters	30.86%	30.86%
Ethers		0.11%
Aldehydes		0.06%
Phenols		0.03%
Other	8.35%	8.35%

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Client



Source

Ammi Visnaga (Ammi visnaga (Khella Oil))

MA-59284

Total Percentage		91.79%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.29	0.04%	2-Methylbutyric acid	Aliphatic Acid
2	5.42	0.03%	Ethyl isovalerate	Aliphatic Ester
3	7.33	1.71%	Isobutyl isobutyrate	Aliphatic Ester
4	7.72	0.47%	alpha-Thujene	Monoterpene
5	7.96	0.23%	alpha-Pinene	Monoterpene
6	8.57	0.02%	Camphene	Monoterpene
7	9.50	0.97%	Sabinene	Monoterpene
8	9.66	0.06%	beta-Pinene	Monoterpene
9	9.92	0.01%	1-Octen-3-ol	Aliphatic Alcohol
10	10.25	0.93%	Myrcene	Monoterpene
11	10.63	0.01%	3-Octanol	Aliphatic Alcohol
12	10.81	3.52%	Isobutyl 2-methylbutyrate	Aliphatic Ester
13	11.25	2.08%	Isoamyl isobutyrate	Aliphatic Ester
14	11.43	11.49%	2-Methylbutyl isobutyrate	Aliphatic Ester
15	11.70	0.23%	ortho-Cymene	Monoterpene
16	11.90	1.03%	Limonene	Monoterpene
17	11.99	0.06%	1,8-Cineole	Monoterpene Ether
18	12.28	1.78%	(Z)-beta-Ocimene	Monoterpene
19	12.75	3.92%	(E)-beta-Ocimene	Monoterpene
20	13.17	0.44%	Prenyl isobutyrate	Aliphatic Ester
21	13.27	0.08%	9.72 Isopentyl butanoate	0.00
22	13.75	0.15%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
23	14.41	0.17%	Terpinolene	Monoterpene
24	14.48	0.07%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
25	14.62	0.03%	para-Cymenene	Monoterpene
26	14.95	0.05%	alpha-Pinene oxide	Monoterpene Ether
27	15.18	3.17%	Isoamyl isovalerate	Aliphatic Ester
28	15.44	43.84%	Linalool	Monoterpenol
29	15.65	6.83%	2-Methyl Butyl Isovalerate	Monoterpene Ester
30	15.93	0.10%	.03 Methyl butanoate, 3-methyl-3-butenyl<3	0.00
31	16.22	0.02%	cis-para-Menth-2-en-1-ol	Monoterpenol
32	16.45	0.36%	Alloocimene	Monoterpene
33	17.12	0.92%	.51 Butanoate<3-methyl-2-butenyl 3-methyl	0.00
34	17.53	0.02%	Isoamyl tiglate	Aliphatic Ester
35	17.61	0.04%	Menthone	Monoterpene Ketone

Client



Source

Ammi Visnaga (Ammi visnaga (Khella Oil))

MA-59284

Number	RT	Area %	Compound Name	Chemical Family
36	18.076	0.03%	Lavandulol	Monoterpene Ketone
37	18.37	0.01%	para-Mentha-1,5-dien-8-ol	Monoterpenol
38	18.51	0.03%	Isopulegone	Monoterpene Ketone
39	18.74	0.26%	Terpinen-4-ol	Monoterpenol
40	19.24	0.01%	(Z)-3-Hexenyl butyrate	Aliphatic Ester
41	19.44	0.90%	alpha-Terpineol	Monoterpenol
42	19.59	0.02%	Methyl chavicol	Phenylpropanoid
43	20.51	0.06%	p-1-Menthenal-9	Monoterpene Aldehyde
44	20.84	0.04%	Nerol	Monoterpenol
45	20.99	0.03%	Citronellol	Monoterpenol
46	21.14	0.11%	cis-3-Hexenyl isovalerate	Aliphatic Ester
47	21.33	1.02%	Pulegone	Monoterpene Ketone
48	22.04	0.12%	Geraniol	Monoterpenol
49	22.36	0.01%	Methyl citronellate	Monoterpene Ester
50	23.43	0.02%	Bornyl acetate	Monoterpene Ester
51	23.55	0.10%	Lavandulyl acetate	Monoterpene Ester
52	24.31	0.01%	Tridecane	Alkane
53	25.73	0.02%	Piperitenone	Sesquiterpene Ketone
54	27.36	0.12%	alpha-Copaene	Sesquiterpene
55	27.67	0.19%	beta-Bourbonene	Sesquiterpene
56	27.83	0.27%	Benzyl isovalerate	Phenolic Ester
57	27.98	0.03%	beta-Elemene	Sesquiterpene
58	28.15	0.12%	Phenylethyl isobutyrate	Phenolic ester
59	28.54	0.01%	Methyl eugenol	Phenylpropanoid
60	29.14	0.12%	beta-Caryophyllene	Sesquiterpene
61	29.25	0.59%	25.51 Lavandulyl isobutanoate	0.00
62	29.60	0.05%	beta-Copaene	Sesquiterpene
63	29.83	0.03%	trans-alpha-Bergamotene	Sesquiterpene
64	30.19	0.03%	Aromadendrene	Sesquiterpene
65	30.62	0.02%	alpha-Humulene	Sesquiterpene
66	30.72	0.19%	(E)-beta-Farnesene	Sesquiterpene
67	31.14	0.01%	6,9-Guaiadiene	Sesquiterpene
68	31.50	0.01%	gamma-Murolene	Sesquiterpene
69	31.69	0.60%	Germacrene D	Sesquiterpene
70	31.84	0.33%	28.07 Citronellol isobutanoate	0.00
71	31.95	0.12%	2-Phenylethyl 3-methylbutyrate	Monoterpene Ester

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Client	 <i>Nature's Gift</i>	Source
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***Ammi Visnaga (Ammi visnaga (Khella Oil))***  
**MA-59284**

72	32.28	0.02%	Bicyclogermacrene	Sesquiterpene
73	32.75	0.65%	Lavandulyl 2-methylbutyrate	Monoterpene Ester
74	32.97	0.10%	Geranyl isobutyrate	Monoterpene Ester
75	33.26	0.05%	delta-Cadinene	Sesquiterpene
76	33.50	0.19%	beta-Sesquiphellandrene	Sesquiterpene
77	34.93	0.04%	Geranyl butyrate	Monoterpene Ester
78	36.42	0.02%	Geranyl 2-methylbutyrate	Monoterpene Ester
79	51.78	0.13%	49.16 Pseudo phytol<6E,10E->	0.00
80	53.66	0.02%	Phytol	Diterpenol
81	53.98	2.39%	UK	
82	58.30	0.02%	Tricosane	Alkane
83	60.08	0.02%	Pentacosane	Alkane
84	61.21	0.01%	Heptacosane	Alkane

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- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
- This report may not be published without the consent of Essential Validation Services.
- Chromatograph image may be requested
- This report is valid for 1 year from the analyzed date