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Balancing Body, Mind and Spirit with Pure Essential Oils

Since 1995

www.naturesgift.com

Frankincense Boswellia carterii var Birdwell

Batch #SO-59063

Somalia, Organically produced

Monoterpenes 83.75%

α pinene	40.10
myrcene	12.60
limonene	11.59
sabinene	5.56
α phellandrene	3.15
para cymene	2.47
β pinene	2.02
(Z) β ocimene	1.32
α thujene	1.05
hashishene	0.89
camphene	0.68
thuja-2,4(10)-diene	0.42
(E) β ocimene	0.39
γ terpinene	0.35
Δ 3-carene	0.33
alloocimene	0.29
α terpinene	0.20
terpinolene	0.18
para-cymenene	0.10
tricyclene	0.04
ortho-cymene	0.02

Aldehydes 0.33%

α campholenal	0.33
exo-isocitral	0.02

Esters 0.3%

bornyl acetate	0.30
isoamyl isovalerate	0.04

Monoterpenols 2.74%

trans-verbenol	0.62
α terpinenol	0.54
terpinen-4-ol	0.44
para-mentha-1,5-dien-8-ol	0.34
linalool	0.29
trans-pinocarveol	0.17
myrcenol	0.15
trans-carveol	0.10
para-cymen-8-ol	0.09
cis-pinocarveol	0.06
2-nonanol	0.03
cis-carveol	0.03
trans sabinene hydrate	0.02
cis-para-menth-2-en-1-ol	0.02

Ethers 0.72%

1,8-cineole	0.72
perillene	0.10
cis-limonene oxide	0.04

Ketones 0.23%

verbenone	0.23
carvone	0.04
6-methyl-5-hepten-2-one	0.01
2-nonanone	0.05
pinocamphone	0.02
pinocarvone	0.08
camphor	0.01

Other 0.07%

toluene	0.07
6-methyl-5-hepten-2-one	0.01
6-methyl-5-hepten-2-ol	0.01
cembrene A	0.07

Sesquiterpene 7.41%

β caryophyllene	3.41
α copaene	0.84
α humulene	0.68
β cadinene	0.52
β elemene	0.46
γ muurolene	0.44
α selinene	0.26
β bourbonene	0.25
α cubebene	0.2
β selinene	0.19
γ cadinene	0.16
allo-aromadendrene	0.14
α muurolene	0.12
α gurjunene	0.11
(Z) muurola-4(14),5-diene	0.08
β cubebene	0.07
(E)-α-bergamotene	0.07
6,9-guaiadiene	0.07
β copaene	0.06
cyclosativene	0.05
(E) cadina-1(6),4-diene	0.05
δ elemene	0.02
(E) cadina-1,4-diene	0.02

Sesquiterpenols 0.01%

1,10-di-epi-cubenol	0.01
cubebol	0.25
viridiflorol	0.52
spathulenol	0.02
longipinanol	0.29
τ cadinol	0.12

Raw Material: resin

Botanical Name: Boswellia carterii var Birdwell

Production Method: Steam distillation

Report Date: 6/5/2020

Client



Source



Frankincense (*Boswellia carterii*)
SO-59063

Sample

Frankincense (*Boswellia carterii*)

Batch #:..... SO-59063

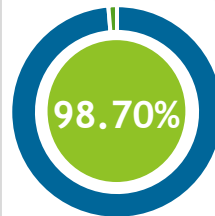
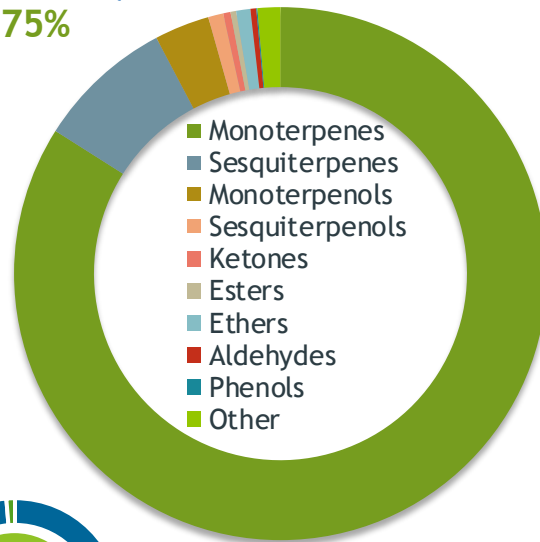
Type:..... Essential Oil

CAS Number:... 8016-36-2

Nature's Gift

Monoterpenes

83.75%



Percentage Identified

Client



Website



Primary

40.10% | alpha-Pinene

12.60% | Myrcene

11.59% | Limonene

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Frankincense (*Boswellia carterii*)

Internal Number: | EVS-3704



Essential Validation Services

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

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

adam@essentialvalidationservices.com

Monoterpenes	83.75%	83.75%
Sesquiterpenes	8	8.27%
Monoterpenols		3.33%
Sesquiterpenols		0.92%
Ketones		0.44%
Esters		0.34%
Ethers		0.86%
Aldehydes		0.35%
Phenols		0.07%
Other		1.38%

- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
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Client



Source

Frankincense (*Boswellia carterii*)

SO-59063

Total Percentage		98.70%		
Number	RT	Area %	Compound Name	Chemical Family
1	3.75	0.07%	Toluene	Simple Phenolic
2	8.06	0.89%	Hashishene	Monoterpene
3	8.15	0.04%	Tricyclene	Monoterpene
4	8.32	1.05%	alpha-Thujene	Monoterpene
5	8.62	40.10%	alpha-Pinene	Monoterpene
6	9.19	0.68%	Camphene	Monoterpene
7	9.36	0.42%	Thuja-2,4(10)-diene	Monoterpene
8	10.16	5.56%	Sabinene	Monoterpene
9	10.32	2.02%	beta-Pinene	Monoterpene
10	10.70	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
11	10.92	12.60%	Myrcene	Monoterpene
12	11.06	0.01%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
13	11.57	3.15%	alpha-Phellandrene	Monoterpene
14	11.68	0.33%	delta-3-Carene	Monoterpene
15	12.04	0.20%	alpha-Terpinene	Monoterpene
16	12.17	0.02%	ortho-Cymene	Monoterpene
17	12.38	2.47%	para-Cymene	Monoterpene
18	12.61	11.59%	Limonene	Monoterpene
19	12.69	0.72%	1,8-Cineole	Monoterpene Ether
20	12.96	1.32%	(Z)-beta-Ocimene	Monoterpene
21	13.43	0.39%	(E)-beta-Ocimene	Monoterpene
22	13.91	0.35%	gamma-Terpinene	Monoterpene
23	14.43	0.02%	trans-Sabinene hydrate	Monoterpenol
24	15.15	0.18%	Terpinolene	Monoterpene
25	15.34	0.10%	para-Cymenene	Monoterpene
26	15.44	0.05%	2-Nonanone	Monoterpene Ketone
27	15.78	0.10%	Perillene	Monoterpene Ether
28	15.86	0.29%	Linalool	Monoterpenol
29	15.99	0.03%	2-Nonanol	Monoterpenol
30	16.19	0.04%	Isoamyl isovalerate	Aliphatic Ester
31	16.81	0.15%	Myrcenol	Monoterpenol
32	16.93	0.02%	cis-para-Menth-2-en-1-ol	Monoterpenol
33	17.01	0.33%	alpha-Campholene aldehyde	Monoterpene Aldehyde
34	17.18	0.29%	Alloocimene	Monoterpene
35	17.49	0.04%	cis-Limonene oxide	Monoterpene Ether

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Client



Source



Frankincense (*Boswellia carterii*)
SO-59063

Number	RT	Area %	Compound Name	Chemical Family
36	17.621	0.43%	trans-Pinocarveol	Monoterpene Ether
37	17.72	0.17%	cis-Verbenol	Monoterpenol
38	17.89	0.62%	trans-Verbenol	Monoterpenol
39	18.53	0.02%	Pinocamphone	Monoterpene Ketone
40	18.62	0.08%	Pinocarvone	Monoterpene Ketone
41	18.78	0.02%	exo-Isocitral	Monoterpene Aldehyde
42	18.99	0.01%	Camphor	Monoterpene Ketone
43	19.09	0.34%	para-Mentha-1,5-dien-8-ol	Monoterpenol
44	19.50	0.44%	Terpinen-4-ol	Monoterpenol
45	19.81	0.09%	para-Cymen-8-ol	Monoterpenol
46	20.19	0.54%	alpha-Terpineol	Monoterpenol
47	20.53	0.06%	cis-Pinocarveol	Monoterpenol
48	20.67	0.23%	Verbenone	Monoterpene Ketone
49	21.29	0.10%	trans-Carveol	Monoterpenol
50	22.38	0.04%	Carvone	Monoterpene Ketone
51	22.61	0.03%	cis-Carveol	Monoterpenol
52	24.24	0.30%	Bornyl acetate	Monoterpene Ester
53	26.51	0.02%	delta-Elemene	Sesquiterpene
54	27.01	0.20%	alpha-Cubebene	Sesquiterpene
55	27.88	0.05%	Cyclosativene	Sesquiterpene
56	28.22	0.84%	alpha-Copaene	Sesquiterpene
57	28.54	0.25%	beta-Bourbonene	Sesquiterpene
58	28.75	0.07%	beta-Cubebene	Sesquiterpene
59	28.83	0.46%	beta-Elemene	Sesquiterpene
60	29.54	0.11%	alpha-Gurjunene	Sesquiterpene
61	30.03	3.41%	beta-Caryophyllene	Sesquiterpene
62	30.46	0.06%	beta-Copaene	Sesquiterpene
63	30.67	0.07%	trans-alpha-Bergamotene	Sesquiterpene
64	31.25	0.07%	6,9-Guaiadiene	Sesquiterpene
65	31.49	0.68%	alpha-Humulene	Sesquiterpene
66	31.68	0.14%	allo-Aromadendrene	Sesquiterpene
67	32.22	0.05%	trans-Cadina-1(6),4-diene	Sesquiterpene
68	32.55	0.44%	gamma-Murolene	Sesquiterpene
69	32.86	0.19%	beta-Selinene	Sesquiterpene
70	32.97	0.08%	cis-Muurolo-4(14),5-diene	Sesquiterpene
71	33.16	0.26%	alpha-Selinene	Sesquiterpene

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