

Client



Source



Ginger (*Zingiber officinalis*)
0000083710

Ginger (*Zingiber officinalis*)

Batch #:..... 0000083710

Type:..... Essential Oil

CAS Number:... 8007-08-7

Natural Sourcing LLC

Sample



Website



Client

22.11%

Zingiberene

11.03

beta-Sesquiphellandrene

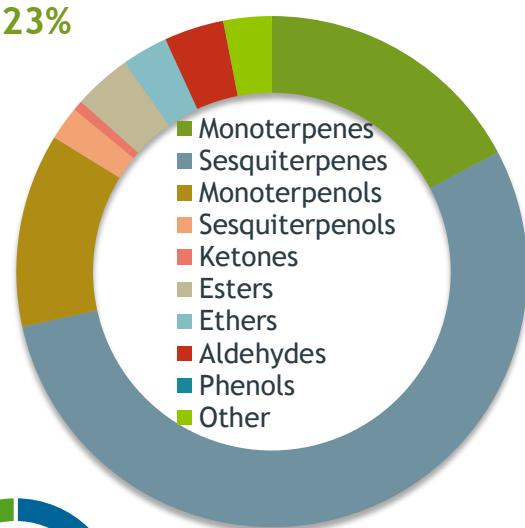
9.60%

Camphene

Primary

Sesquiterpenes

54.23%



96.21%

Percentage Identified

Result

APPROVED

Conclusion

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

Internal Number: | EVS-4035



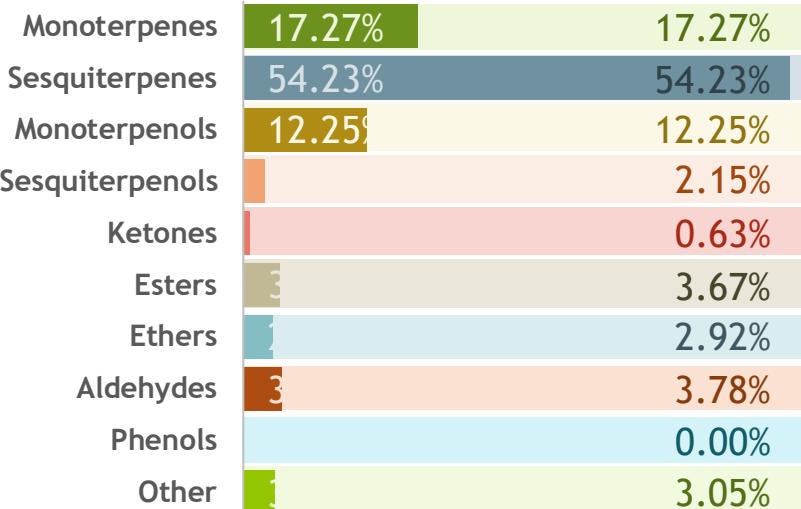
Essential Validation
Services

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

317.361.5044 |

<https://essentialvalidationservices.com/>

[Signature]



Client



NATURAL SOURCING
Cosmetic and Personal Care Ingredient Specialists
Proudly Serving You for over 20 Years

Source

**Ginger (*Zingiber officinalis*)**

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Total Percentage	96.21%			
Number	RT	Area %	Compound Name	Chemical Family
1	4.28	0.06%	Hexanal	Aliphatic Aldehyde
2	6.15	0.01%	1-Hexanol	Aliphatic Alcohol
3	6.76	0.05%	2-Heptanone	Aliphatic Ketone
4	7.18	0.24%	2-Heptanol	Aliphatic Alcohol
5	7.86	0.23%	Tricyclene	Monoterpene
6	8.28	2.70%	alpha-Pinene	Monoterpene
7	8.91	9.60%	Camphene	Monoterpene
8	9.45	0.02%	Verbenene	Monoterpene
9	9.84	0.02%	Sabinene	Monoterpene
10	10.00	0.24%	beta-Pinene	Monoterpene
11	10.22	0.25%	3-p-Menthene	Monoterpene
12	10.38	0.34%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
13	10.59	1.45%	Myrcene	Monoterpene
14	10.76	0.15%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
15	11.18	0.04%	Octanal	Aliphatic Aldehyde
16	11.24	0.12%	alpha-Phellandrene	Monoterpene
17	11.34	0.04%	delta-3-Carene	Monoterpene
18	11.71	0.02%	alpha-Terpinene	Monoterpene
19	12.04	0.05%	para-Cymene	Monoterpene
20	12.26	2.14%	Limonene	Monoterpene
21	12.36	2.58%	1,8-Cineole	Monoterpene Ether
22	12.63	0.01%	(Z)-beta-Ocimene	Monoterpene
23	13.09	0.01%	(E)-beta-Ocimene	Monoterpene
24	13.57	0.05%	gamma-Terpinene	Monoterpene
25	14.13	0.08%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
26	14.24	0.04%	1-Octanol	Aliphatic Alcohol
27	14.79	0.29%	Terpinolene	Monoterpene
28	15.00	0.03%	para-Cymenene	Monoterpene
29	15.11	0.04%	2-Nonanone	Monoterpene Ketone
30	15.37	0.30%	alpha-Pinene oxide	Monoterpene Ether
31	15.53	1.11%	Linalool	Monoterpenol
32	15.66	0.06%	2-Nonanol	Monoterpenol
33	16.16	0.02%	Perillene	Monoterpene Ether
34	16.31	0.03%	Fenchol	Monoterpenol
35	16.58	0.01%	cis-para-Menth-2-en-1-ol	Monoterpenol

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Number	RT	Area %	Compound Name	Chemical Family
36	17.517	0.10%	Camphor	Monoterpenol
37	17.90	0.16%	Camphene hydrate	Monoterpenol
38	18.73	2.06%	Borneol	Monoterpenol
39	19.14	0.22%	Terpinen-4-ol	Monoterpenol
40	19.21	0.05%	(E)-Isocitral	Monoterpene Aldehyde
41	19.47	0.05%	para-Cymen-8-ol	Monoterpenol
42	19.83	0.78%	alpha-Terpineol	Monoterpenol
43	20.42	0.01%	Decanal	Aliphatic Aldehyde
44	20.68	0.01%	Octyl acetate	Aliphatic Ester
45	21.24	0.78%	Nerol	Monoterpenol
46	21.39	0.63%	Citronellol	Monoterpenol
47	21.83	1.48%	Neral	Monoterpene Aldehyde
48	21.96	0.07%	cis-Isogeraniol	Monoterpenol
49	22.26	0.20%	cis-Carveol	Monoterpenol
50	22.50	6.00%	Geraniol	Monoterpenol
51	23.19	2.14%	Geranial	Monoterpene Aldehyde
52	23.87	1.39%	Bornyl acetate	Monoterpene Ester
53	24.33	0.10%	2-Undecanone	Aliphatic Ketone
54	24.80	0.01%	2-Undecanol	Monoterpenol
55	26.61	0.01%	alpha-Cubebene	Sesquiterpene
56	26.82	0.11%	Citronellyl acetate	Monoterpene Ester
57	27.20	0.12%	Neryl acetate	Monoterpene Ester
58	27.80	0.31%	alpha-Copaene	Sesquiterpene
59	28.06	1.94%	Geranyl acetate	Monoterpene Ester
60	28.43	0.52%	beta-Elemene	Sesquiterpene
61	29.04	0.23%	7-epi-Sesquithujene	Sesquiterpene
62	29.43	0.03%	alpha-Cedrene	Sesquiterpene
63	29.59	0.10%	beta-Caryophyllene	Sesquiterpene
64	30.06	0.37%	beta-Gurjunene	Sesquiterpene
65	30.27	0.23%	trans-alpha-Bergamotene	Sesquiterpene
66	30.57	0.03%	(Z)-beta-Farnesene	Sesquiterpene
67	30.90	0.05%	gamma-Elemene	Sesquiterpene
68	31.15	0.72%	(E)-beta-Farnesene	Sesquiterpene
69	31.25	0.17%	allo-Aromadendrene	Sesquiterpene
70	31.44	0.01%	beta-Acoradiene	Sesquiterpene
71	31.80	0.02%	trans-Cadina-1(6),4-diene	Sesquiterpene

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72	31.94	0.12%	gamma-Muurolene	Sesquiterpene
73	32.01	0.05%	Amorpha-4,7(11)-diene	Sesquiterpene
74	32.12	0.55%	gamma-Curcumene	Sesquiterpene
75	32.26	6.16%	alpha-Curcumene	Sesquiterpene
76	32.44	0.09%	beta-Selinene	Sesquiterpene
77	32.92	22.11%	Zingiberene	Sesquiterpene
78	33.30	5.26%	(E,E)-alpha-Farnesene	Sesquiterpene
79	33.38	5.44%	beta-Bisabolene	Sesquiterpene
80	33.72	0.26%	delta-Cadinene	Sesquiterpene
81	33.82	0.01%	trans-Calamenene	Sesquiterpene
82	34.01	11.03%	beta-Sesquiphellandrene	Sesquiterpene
83	34.09	0.32%	trans-gamma-Bisabolene	Sesquiterpene
84	34.85	0.14%	Elemol	Sesquiterpenol
85	35.12	0.04%	cis-Sesquisabinene hydrate	Monoterpene Ester
86	35.19	0.03%	Germacrene B	Sesquiterpene
87	35.43	0.15%	(E)-Nerolidol	Sesquiterpenol
88	36.50	0.05%	trans-Sesquisabinene hydrate	Monoterpene Ester
89	36.83	0.02%	Caryophyllene oxide	Sesquiterpene Ether
90	37.42	0.30%	Ledol	Sesquiterpenol
91	37.59	0.15%	10-epi-gamma-Eudesmol	Sesquiterpenol
92	37.75	0.29%	Guaiol	Sesquiterpenol
93	38.05	0.33%	1-epi-Cubenol	Sesquiterpenol
94	38.47	0.12%	T-Muurolol	Sesquiterpenol
95	38.66	0.02%	beta-Acorenol	Sesquiterpenol
96	38.80	0.21%	beta-Eudesmol	Sesquiterpenol
97	39.47	0.17%	beta-Bisabolol	Sesquiterpenol
98	40.09	0.24%	alpha-Bisabolol	Sesquiterpenol
99	40.93	0.05%	(E,Z)-Farnesal	
100	41.90	0.03%	(E,E)-Farnesol	Sesquiterpenol
101	45.30	0.01%	(E,E)-Farnesyl acetate	Sesquiterpene Ester

- 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