

Client



Source



Ginger (*Zingiber officinalis*)  
68762

Sample

Ginger (*Zingiber officinalis*)

Batch #:..... 68762

Type:..... Essential Oil

CAS Number:... 8007-08-7

Natural Sourcing LLC

Client



Website



Primary

16.33%

alpha-Zingiberene

10.56

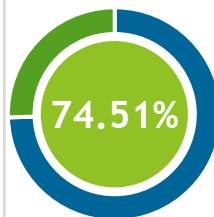
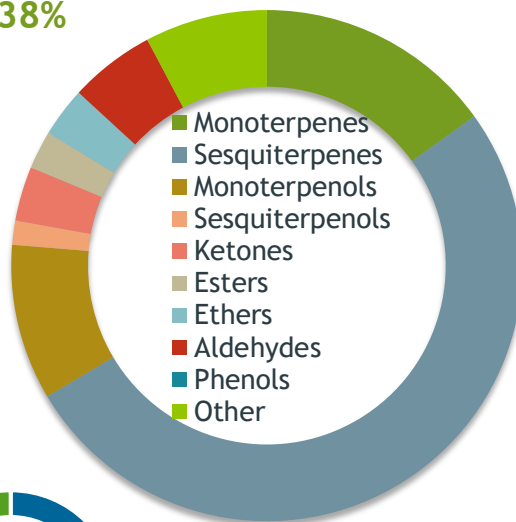
ar-Curcumene

10.06%

beta-Sesquiphellandrene

Sesquiterpenes

51.38%



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 Ginger (*Zingiber officinalis*)

Internal Number: | EVS-3988



Essential Validation Services

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

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

*Alan Chastain*

Monoterpenes	15.07%	15.07%
Sesquiterpenes	51.38%	51.38%
Monoterpenols	9.85	9.85%
Sesquiterpenols		1.53%
Ketones	3	3.44%
Esters		2.42%
Ethers		3.14%
Aldehydes	5.	5.42%
Phenols		0.00%
Other	7.7	7.75%

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**NATURAL SOURCING**  
Cosmetic and Personal Care Ingredient Specialists  
PROUDLY SERVING YOU FOR OVER 30 YEARS

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Total Percentage		74.51%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.34	0.01%	Hexanal	Aliphatic Aldehyde
2	6.14	0.16%	1-Hexanol	Aliphatic Alcohol
3	6.76	0.06%	2-Heptanone	Aliphatic Ketone
4	7.19	0.21%	2-Heptanol	Aliphatic Alcohol
5	7.85	0.18%	Tricyclene	Monoterpene
6	8.03	0.01%	alpha-Thujene	Monoterpene
7	8.27	2.17%	alpha-Pinene	Monoterpene
8	8.90	8.33%	Camphene	Monoterpene
9	9.45	0.02%	Verbenene	Monoterpene
10	9.84	0.02%	Sabinene	Monoterpene
11	10.00	0.22%	beta-Pinene	Monoterpene
12	10.16	0.01%	Hexanoic acid	Fatty Acid
13	10.21	0.04%	3-p-Menthene	Monoterpene
14	10.39	2.88%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
15	10.58	1.22%	Myrcene	Monoterpene
16	10.76	0.20%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
17	11.23	0.09%	alpha-Phellandrene	Monoterpene
18	11.34	0.04%	delta-3-Carene	Monoterpene
19	11.70	0.01%	alpha-Terpinene	Monoterpene
20	11.82	0.01%	(Z)-3-Hexenyl acetate	Aliphatic Ester
21	12.04	0.09%	para-Cymene	Monoterpene
22	12.25	2.36%	Limonene	Monoterpene
23	12.35	2.76%	1,8-Cineole	Monoterpene Ether
24	12.63	0.01%	(Z)-beta-Ocimene	Monoterpene
25	13.37	0.01%	Bergamal	Aliphatic Aldehyde
26	13.56	0.03%	gamma-Terpinene	Monoterpene
27	14.13	0.03%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
28	14.24	0.03%	1-Octanol	Aliphatic Alcohol
29	14.79	0.21%	Terpinolene	Monoterpene
30	14.98	0.02%	para-Cymenene	Monoterpene
31	15.10	0.10%	2-Nonanone	Monoterpene Ketone
32	15.37	0.34%	alpha-Pinene oxide	Monoterpene Ether
33	15.52	0.72%	Linalool	Monoterpenol
34	15.65	0.06%	2-Nonanol	Monoterpenol
35	16.14	0.02%	Perillene	Monoterpene Ether

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Number	RT	Area %	Compound Name	Chemical Family
36	16.297	0.03%	Fenchol	Monoterpene Ether
37	16.58	0.02%	trans-Pinene hydrate	Monoterpenol
38	16.86	0.01%	Myrcenol	Monoterpenol
39	17.27	0.01%	alpha-Pinocarveol	Monoterpenol
40	17.39	0.01%	trans-para-Menth-2-en-1-ol	Monoterpenol
41	17.51	0.16%	Camphor	Monoterpene Ketone
42	17.89	0.15%	Camphene hydrate	Monoterpenol
43	18.31	0.02%	Isoborneol	Monoterpenol
44	18.72	2.49%	Borneol	Monoterpenol
45	18.89	0.03%	Octanoic acid	Aliphatic Acid
46	19.13	0.26%	Terpinen-4-ol	Monoterpenol
47	19.38	0.01%	Cryptone	Monoterpene Ketone
48	19.46	0.09%	para-Cymen-8-ol	Monoterpenol
49	19.82	0.72%	alpha-Terpineol	Monoterpenol
50	20.41	0.01%	Decanal	Aliphatic Aldehyde
51	20.86	0.01%	Fenchyl acetate	Monoterpene Ester
52	21.24	0.84%	Nerol	Monoterpenol
53	21.39	0.43%	Citronellol	Monoterpenol
54	21.83	2.05%	Neral	Monoterpene Aldehyde
55	21.95	0.03%	cis-Isogeraniol	Monoterpenol
56	22.15	0.01%	cis-Myrtanol	Monoterpenol
57	22.25	0.11%	cis-Carveol	Monoterpenol
58	22.48	3.80%	Geraniol	Monoterpenol
59	22.93	0.01%	(E)-2-Decenal	Monoterpene Aldehyde
60	23.19	3.33%	Geranial	Monoterpene Aldehyde
61	23.46	0.01%	Citronellyl formate	Monoterpene Ester
62	23.58	0.02%	Neryl formate	Monoterpene Ester
63	23.85	0.94%	Bornyl acetate	Monoterpene Ester
64	24.32	0.23%	2-Undecanone	Aliphatic Ketone
65	24.55	0.09%	Geranyl formate	Monoterpene Ester
66	24.80	0.01%	2-Undecanol	Monoterpenol
67	26.08	0.01%	delta-Elemene	Sesquiterpene
68	26.59	0.02%	alpha-Cubebene	Sesquiterpene
69	26.82	0.12%	Citronellyl acetate	Monoterpene Ester
70	27.19	0.05%	Neryl acetate	Monoterpene Ester
71	27.43	0.23%	alpha-Ylangene	Sesquiterpene

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72	27.79	0.35%	alpha-Copaene	Sesquiterpene
73	28.04	0.89%	Geranyl acetate	Monoterpene Ester
74	28.41	0.54%	beta-Elemene	Sesquiterpene
75	29.02	0.28%	7-epi-Sesquithujene	Sesquiterpene
76	29.24	0.01%	alpha-Gurjunene	Sesquiterpene
77	29.42	0.01%	alpha-Cedrene	Sesquiterpene
78	29.58	0.09%	beta-Caryophyllene	Sesquiterpene
79	30.04	0.37%	beta-Gurjunene	Sesquiterpene
80	30.26	0.25%	trans-alpha-Bergamotene	Sesquiterpene
81	30.56	0.04%	(Z)-beta-Farnesene	Sesquiterpene
82	30.80	0.03%	epi-beta-Santalene	Sesquiterpene
83	31.14	0.70%	(E)-beta-Farnesene	Sesquiterpene
84	31.24	0.18%	allo-Aromadendrene	Sesquiterpene
85	31.43	0.01%	beta-Acoradiene	Sesquiterpene
86	31.93	0.18%	gamma-Murolene	Sesquiterpene
87	32.11	0.39%	gamma-Curcumene	Sesquiterpene
88	32.28	10.56%	ar-Curcumene	Sesquiterpene
89	32.43	0.12%	beta-Selinene	Sesquiterpene
90	32.57	0.02%	Viridiflorene	Sesquiterpene
91	32.89	16.33%	alpha-Zingiberene	Sesquiterpene
92	33.28	4.11%	(E,E)-alpha-Farnesene	Sesquiterpene
93	33.37	5.91%	beta-Bisabolene	Sesquiterpene
94	33.71	0.23%	delta-Cadinene	Sesquiterpene
95	33.79	0.02%	trans-Calamenene	Sesquiterpene
96	34.00	10.06%	beta-Sesquiphellandrene	Sesquiterpene
97	34.08	0.33%	trans-gamma-Bisabolene	Sesquiterpene
98	34.85	0.19%	Elemol	Sesquiterpenol
99	35.11	0.13%	cis-Sesquisabinene hydrate	Monoterpene Ester
100	35.42	0.16%	(E)-Nerolidol	Sesquiterpenol
101	36.00	0.12%	Turmerol	Sesquiterpenol
102	36.49	0.15%	trans-Sesquisabinene hydrate	Monoterpene Ester
103	36.83	0.02%	Caryophyllene oxide	Sesquiterpene Ether
104	37.41	0.39%	Ledol	Sesquiterpenol
105	37.59	0.15%	10-epi-gamma-Eudesmol	Sesquiterpenol
106	37.74	0.14%	Guaiol	Sesquiterpenol
107	38.05	0.32%	1-epi-Cubenol	Sesquiterpenol
108	38.46	0.06%	T-Murolol	Sesquiterpenol

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