

Turmeric Essential Oil

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GC-MS COMPOSITION REPORT

Turmeric (*Curcuma longa*) — qualitative GC-MS

Total identified 47.17% Method Qualitative GC-MS

CHEMICAL FAMILY	AREA %
Unassigned	44.78%
Sesquiterpene Ketone	28.19%
Sesquiterpene	15.64%
Monoterpene	2.00%
Monoterpene Ether	0.53%
Monoterpenol	0.24%
Sesquiterpene Ester	0.22%
Simple Phenolic	0.19%
Sesquiterpenol	0.12%
Monoterpene Ketone	0.02%
Phenylpropanoid	0.02%

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
1	8.00	0.02%	alpha-Pinene	Monoterpene
2	10.29	0.02%	Myrcene	Monoterpene
3	10.93	0.57%	alpha-Phellandrene	Monoterpene
4	11.03	0.02%	delta-3-Carene	Monoterpene
5	11.39	0.06%	alpha-Terpinene	Monoterpene
6	11.73	0.48%	para-Cymene	Monoterpene
7	11.93	0.35%	Limonene	Monoterpene
8	12.02	0.53%	1,8-Cineole	Monoterpene Ether
9	13.23	0.04%	gamma-Terpinene	Monoterpene
10	14.45	0.33%	Terpinolene	Monoterpene
11	14.66	0.11%	para-Cymenene	Monoterpene
12	15.19	0.01%	Linalool	Monoterpenol
13	18.33	0.01%	delta-Terpineol	Monoterpenol
14	18.77	0.03%	Terpinen-4-ol	Monoterpenol
15	18.95	0.02%	para-Methylacetophenone	Simple Phenolic
16	19.12	0.02%	para-Cymen-8-ol	Monoterpenol
17	19.46	0.05%	alpha-Terpineol	Monoterpenol
18	19.81	0.09%	cis-Pinocarveol	Monoterpenol
19	21.85	0.02%	Carvotanacetone	Monoterpene Ketone
20	24.28	0.03%	Carvacrol	Monoterpenol
21	24.62	0.17%	4-Vinylguaiacol	Simple Phenolic

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
22	26.44	0.02%	Eugenol	Phenylpropanoid
23	28.65	0.02%	Sesquithujene	Sesquiterpene
24	29.04	0.08%	alpha-Cedrene	Sesquiterpene
25	29.20	0.46%	beta-Caryophyllene	Sesquiterpene
26	29.88	0.08%	trans-alpha-Bergamotene	Sesquiterpene
27	30.28	0.85%	UK Turmeric	—
28	30.51	0.15%	UK Turmeric	—
29	30.68	0.09%	alpha-Humulene	Sesquiterpene
30	30.82	0.65%	Amorpha-4,11-diene	Sesquiterpene
31	31.62	0.05%	beta-Gurjunene	Sesquiterpene
32	31.72	0.94%	gamma-Curcumene	Sesquiterpene
33	31.86	2.65%	ar-Curcumene	Sesquiterpene
34	31.98	0.28%	UK Turmeric	—
35	32.47	4.85%	Zingiberene	Sesquiterpene
37	32.96	0.95%	Turmeric (Curcuma longa)	Sesquiterpene
38	33.01	0.28%	K-T	Sesquiterpene
39	33.58	3.57%	- Essential Oil testing is performed by using qualitative GC-MS Method: SOP.T.01 Client Method	Sesquiterpene
40	33.73	0.62%	- Chromatograph image may be requested	Sesquiterpene
41	34.23	0.01%	- This report is valid for 1 year from the analyzed date	Sesquiterpene
42	34.63	0.34%	Number RT Area % Chemical Family	Sesquiterpene
43	35.01	0.22%	36 32.772 0.70% Sesquiterpene	Sesquiterpene Ester
44	35.27	0.22%	37 32.96 0.95% Sesquiterpene	—
45	36.07	0.31%	38 33.01 0.28% Sesquiterpene	—
46	36.53	0.95%	39 33.58 3.57% Sesquiterpene	Sesquiterpene Ketone
47	36.71	0.29%	40 33.73 0.62% Sesquiterpene	—
48	37.38	0.12%	41 34.23 0.01% Sesquiterpene	Sesquiterpenol
49	37.60	0.22%	42 34.63 0.34% Sesquiterpene	—
50	37.89	0.43%	43 35.01 0.22% Sesquiterpene Ester	—
51	38.65	4.92%	46 36.53 0.95% Sesquiterpene Ketone	—
52	39.07	23.22%	48 37.38 0.12% Sesquiterpenol	Sesquiterpene Ketone
53	39.25	19.81%	52 39.07 23.22% Sesquiterpene Ketone	—
54	39.72	0.70%	54 39.72 0.70% Sesquiterpene Ketone	Sesquiterpene Ketone
55	40.35	12.32%	57 41.46 0.33% Sesquiterpene Ketone	—
56	40.71	0.66%	58 41.70 0.68% Sesquiterpene Ketone	—
57	41.46	0.33%	62 42.80 2.31% Sesquiterpene Ketone	Sesquiterpene Ketone
58	41.70	0.68%	Compound Name	Sesquiterpene Ketone
59	42.05	0.59%	UK Turmeric	—
60	42.31	0.45%	beta-Bisabolene	—
61	42.40	0.98%	11-alpha-H-Himachala-1,4-diene	—
62	42.80	2.31%	beta-Sesquiphellandrene	Sesquiterpene Ketone
63	43.34	0.78%	beta-Vetispirene	—
64	44.03	0.25%	trans-alpha-Bisabolene	—
65	46.39	0.47%	Nootkatene	—

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
66	46.94	0.21%	Italicene epoxide	—
67	47.78	0.22%	UK Turmeric	—
68	48.14	0.37%	UK Turmeric	—

Conclusion: no adulterants, diluents or contaminants were detected via this method. This oil meets the expected profile for the genuine essential oil identified above.

Results provided by: third-party laboratory. Comprehensive report available upon request. Provided for informational purposes only; this does not constitute a medical claim of any kind. These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.