



ESSENTIAL VALIDATION SERVICES | 747 SW 2ND AVE GAINESVILLE, FLORIDA 32601 | 317-361-5044

Sample:

Client: | Nature's Gift
Sample: | Cedarwood Himalayan (Cedrus deodara)
Batch # | IN-58645
Cas Number | 68991-36-6
Type: | Essential Oil

Conclusion:

- No adulterants, diluents, or contaminants were detected via this method.
- This oil meets the expected profile for genuine essential oil of Cedarwood Himalayan (Cedrus deodara).



X 

Validated By:

Essential Validation Services
747 SW 2nd Ave, Gainesville, FL 32601

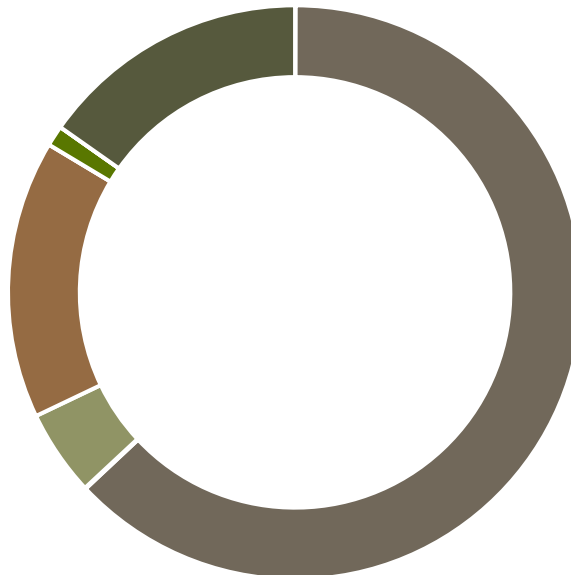
Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

Summary of Analyses

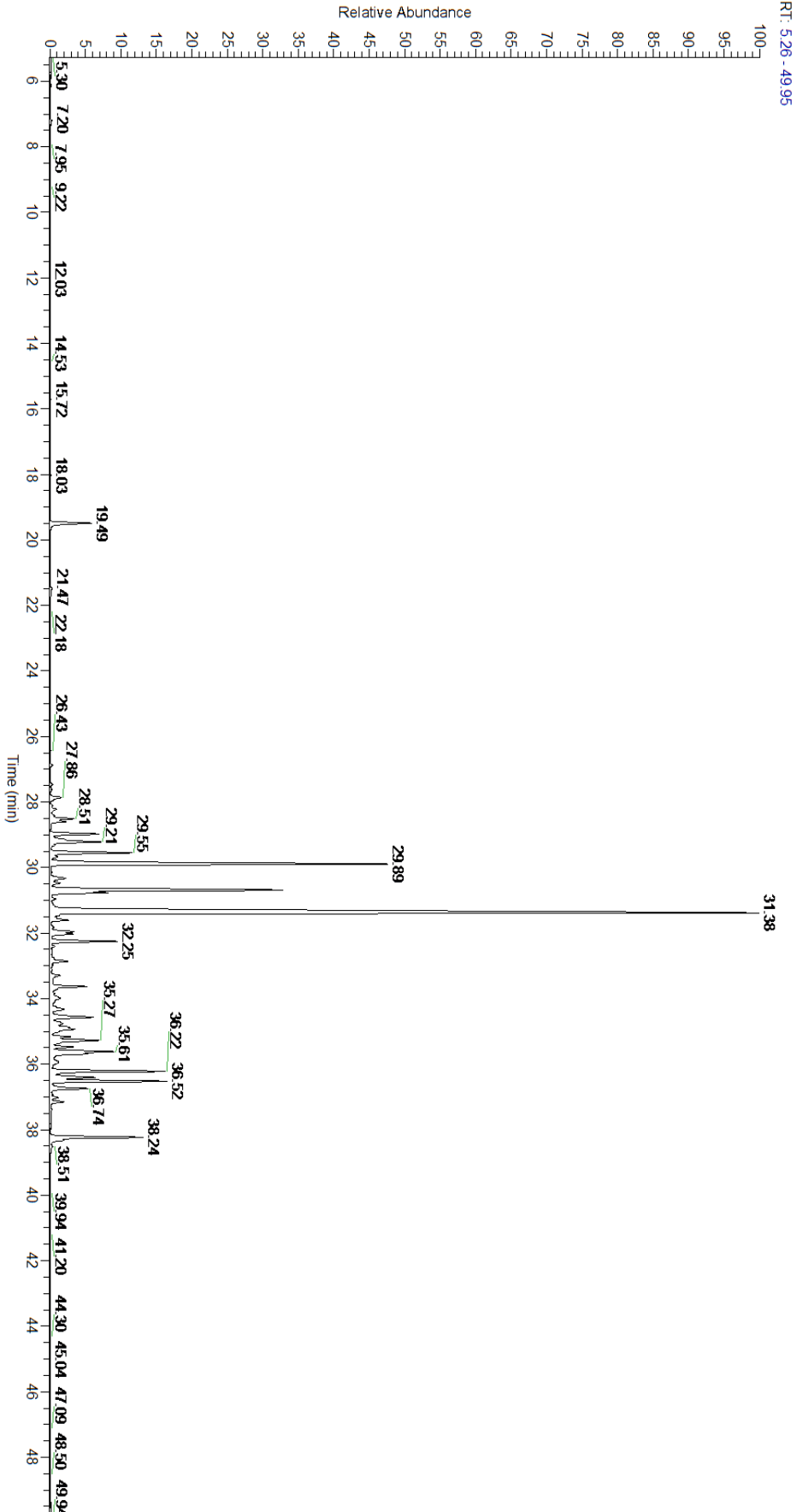
A fresh sample of Cedarwood Himalayan (Cedrus deodara) Essential Oil (10 uL in .5 to .5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.

Main Compounds	Percentages
beta-Himachalene	33.46%
alpha-Himachalene	12.29%
gamma-Himachalene	8.36%
(Z)-gamma-Atlantone	3.68%
(E)-gamma-Atlantone	3.59%
(E)-alpha-Atlantone	2.99%
UK Cedarwood	2.70%
UK Cedarwood	2.21%
gamma-Cuprenene	2.01%
Allohimachalol	2.00%
Himachalol	1.86%
Deodarone analog?	1.62%
Dictamnol	1.59%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
0.04%	62.01%	0.06%	4.77%	15.45%
Esters	Ethers	Aldehydes	Phenols	Other
0.00%	1.14%	0.00%	1.53%	15.01%



- Monoterpenes ■ Sesquiterpenes ■ Monoterpenols
- Sesquiterpenols ■ Ketones ■ Esters
- Ethers ■ Phenols ■ Other



Total Percentage		85.00%			
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	7.20	0.05%	Mesityl oxide	787.00	Aliphatic Ketone
2	12.03	0.01%	alpha-Pinene	936.10	Monoterpene
3	15.72	0.01%	Limonene	1029.50	Monoterpene
4	18.03	0.02%	para-Cymenene	1092.43	Monoterpene
5	19.49	1.44%	Limona ketone	1134.50	Simple Phenolic
6	21.47	0.09%	para-Methylacetophenone	1186.50	Simple Phenolic
7	21.64	0.06%	alpha-Terpineol	1191.71	Monoterpenol
8	26.88	0.08%	alpha-Longipinene	1357.90	Sesquiterpene
9	27.47	0.08%	alpha-Ylangene	1371.33	Sesquiterpene
10	27.62	0.06%	alpha-Copaene	1379.00	Sesquiterpene
11	27.86	0.46%	UK Cedarwood		
12	28.10	0.09%	Sativene	1395.00	Sesquiterpene
13	28.22	0.25%	UK Cedarwood		
14	28.42	0.12%	Sibirene	1401.20	Sesquiterpene
15	28.51	0.76%	UK Cedarwood		
16	28.60	0.47%	Longifolene	1403.83	Sesquiterpene
17	28.77	0.02%	alpha-Cedrene	1410.75	Sesquiterpene
18	28.98	1.59%	Dictamnol		
19	29.21	2.21%	UK Cedarwood		
20	29.32	0.13%	trans-alpha-Bergamotene	1435.00	Sesquiterpene
21	29.55	2.70%	UK Cedarwood		
22	29.89	12.29%	alpha-Himachalene	1448.40	Sesquiterpene
23	30.15	0.02%	Vestitenone	1457.50	Terpenic Ketone
24	30.33	0.61%	Thujopsadiene	1465.10	Sesquiterpene
25	30.48	0.33%	gamma-Curcumene	1476.00	Sesquiterpene
26	30.69	8.36%	gamma-Himachalene	1476.50	Sesquiterpene
27	30.77	1.41%	Himachala-2,4-diene	1476.80	Sesquiterpene
28	31.38	33.46%	beta-Himachalene	1497.75	Sesquiterpene
29	31.46	0.18%	cis-alpha-Bisabolene	1502.00	Sesquiterpene
30	31.53	0.14%	Cuparene	1508.50	Sesquiterpene
31	31.61	0.55%	alpha-Dehydro-ar-himachalene	1516.00	Sesquiterpene
32	31.82	0.11%	delta-Cadinene	1524.14	Sesquiterpene
33	31.96	0.75%	trans-Calamenene	1529.50	Sesquiterpene
34	32.03	0.67%	gamma-Dehydro-ar-himachalene	1529.75	Sesquiterpene
35	32.25	2.01%	gamma-Cuprenene	1535.50	Sesquiterpene
36	32.40	0.09%	alpha-Calacorene	1537.14	Sesquiterpene
37	32.62	0.02%	(E)-Nerolidol	1567.00	Sesquiterpenol
38	32.86	0.58%	Himachalene oxide	1578.00	Sesquiterpene Ether
39	33.29	0.36%	Longiborneol	1586.50	Sesquiterpenol
40	33.63	1.24%	ar-Dihydroturmerone	1591.00	Sesquiterpene Ketone
41	34.32	0.56%	beta-Himachalene oxide	1595.95	Sesquiterpene Ether
42	34.57	1.57%	UK Cedarwood		
43	34.77	0.57%	UK Cedarwood		



44	34.88	0.49%	UK Cedarwood		
45	34.94	0.93%	UK Cedarwood		
46	35.17	0.53%	beta-Acorenol	1641.00	Sesquiterpenol
47	35.27	1.86%	Himachalol	1648.50	Sesquiterpenol
48	35.48	0.67%	Himachalol isomer		
49	35.61	2.00%	Allohimachalol	1660.00	Sesquiterpenol
50	35.68	0.98%	(E)-10,11-Dihydroatlantone	1671.00	Sesquiterpene Ketone
51	35.95	0.49%	Mustakone?		
52	36.22	3.68%	(Z)-gamma-Atlantone	1683.00	Sesquiterpene Ketone
53	36.40	1.62%	Deodarone analog?	1689.00	Sesquiterpene Ketone
54	36.52	3.59%	(E)-gamma-Atlantone	1697.00	Sesquiterpene Ketone
55	36.74	1.28%	(Z)-alpha-Atlantone	1707.50	Sesquiterpene Ketone
56	37.02	0.22%	UK Cedarwood		
57	37.15	0.39%	UK Cedarwood		
58	38.24	2.99%	(E)-alpha-Atlantone	1773.10	Sesquiterpene Ketone

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