

Sample:

Client: | Nature's Gift
Sample: | Cedarwood Himalayan (Cedrus deodara)
Batch # | IN-58752
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

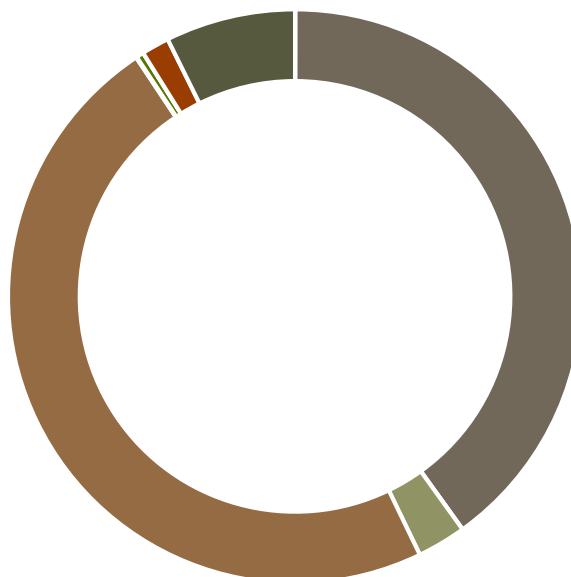
Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

Summary of Analyses

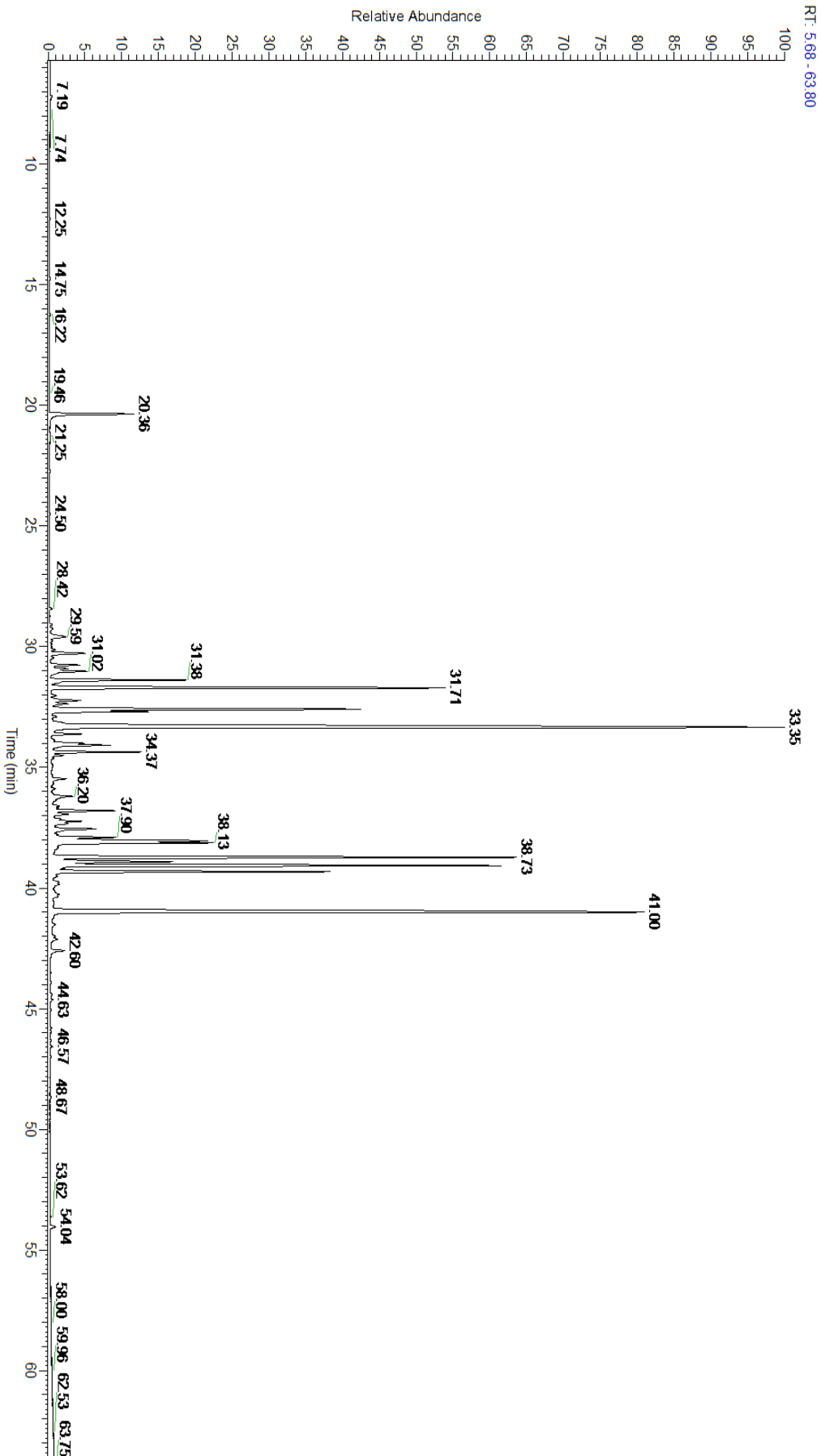
A fresh sample of Cedarwood Himalayan (Cedrus deodara) Essential Oil (10 uL in .5to.5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.

Main Compounds	Percentages
beta-Himachalene	19.35%
(E)-alpha-Atlantone	14.97%
(Z)-gamma-Atlantone	8.96%
(E)-gamma-Atlantone	8.72%
alpha-Himachalene	7.87%
gamma-Himachalene	5.89%
(Z)-alpha-Atlantone	4.52%
(E)-10,11-Dihydroatlantone	3.14%
beta-Atlantone	2.59%
Vestitenone	2.49%
Deodarone	2.32%
Limona ketone	1.56%
gamma-Cuprenene	1.41%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
0.02%	40.06%	0.00%	2.76%	47.82%
Esters	Ethers	Aldehydes	Phenols	Other
0.04%	0.42%	0.00%	1.56%	7.32%



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



Total Percentage		92.70%			
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	7.19	0.04%	Mesityl oxide	787.00	Aliphatic Ketone
2	12.25	0.01%	alpha-Pinene	936.10	Monoterpene
3	16.22	0.01%	Limonene	1029.50	Monoterpene
4	20.36	1.56%	Limona ketone	1134.50	Simple Phenolic
5	28.42	0.05%	alpha-Longipinene	1357.90	Sesquiterpene
6	29.09	0.06%	alpha-Ylangene	1371.33	Sesquiterpene
7	29.25	0.09%	alpha-Copaene	1379.00	Sesquiterpene
8	29.59	0.51%	UK Cedarwood		
9	29.75	0.06%	beta-Elemene	1389.20	Sesquiterpene
10	30.12	0.10%	Sibirene	1401.20	Sesquiterpene
11	30.27	0.78%	Longifolene	1403.83	Sesquiterpene
12	30.76	0.53%	UK Cedarwood		
13	30.91	0.28%	UK Cedarwood		
14	31.38	2.49%	Vestitenone	1444.50	Terpenic Ketone
15	31.71	7.87%	alpha-Himachalene	1456.60	Sesquiterpene
16	32.23	0.57%	Thujopsadiene	1465.10	Sesquiterpene
17	32.37	0.32%	UK Cedarwood		
18	32.59	5.89%	gamma-Himachalene	1476.50	Sesquiterpene
19	32.69	1.39%	Himachala-2,4-diene	1476.80	Sesquiterpene
20	32.90	0.08%	beta-Chamigrene	1477.00	Sesquiterpene
21	33.35	19.35%	beta-Himachalene	1497.75	Sesquiterpene
22	33.62	0.51%	alpha-Dehydro-ar-himachalene	1516.00	Sesquiterpene
23	34.01	0.58%	gamma-Dehydro-ar-himachalene	1529.75	Sesquiterpene
24	34.08	1.03%	gamma-Vetivenene	1532.00	Sesquiterpene
25	34.37	1.41%	gamma-Cuprenene	1535.50	Sesquiterpene
26	34.51	0.21%	alpha-Calacorene	1537.14	Sesquiterpene
27	34.62	0.03%	Calacorene (unknown isomer)	1540.12	Sesquiterpene
28	35.08	0.02%	(E)-Nerolidol	1567.00	Sesquiterpenol
29	35.48	0.30%	Himachalene oxide	1578.00	Sesquiterpene Ether
30	35.89	0.07%	ar-Dihydroturmerone	1591.00	Sesquiterpene Ketone
31	36.20	0.61%	Longiborneol	1586.50	Sesquiterpenol
32	36.59	0.12%	beta-Himachalene oxide	1595.95	Sesquiterpene Ether
33	36.80	1.11%	UK Cedarwood		
34	36.95	0.30%	alpha-Acorenol	1629.50	Sesquiterpenol
35	37.14	0.12%	UK Cedarwood		
36	37.23	0.49%	beta-Acorenol	1641.00	Sesquiterpenol
37	37.33	0.25%	Himachalol	1648.50	Sesquiterpenol
38	37.90	1.09%	Allohimachalol	1660.00	Sesquiterpenol
39	38.04	3.14%	(E)-10,11-Dihydroatlantone	1671.00	Sesquiterpene Ketone
40	38.13	2.59%	beta-Atlantone	1672.00	Sesquiterpene Ketone
41	38.73	8.96%	(Z)-gamma-Atlantone	1683.00	Sesquiterpene Ketone
42	38.91	2.32%	Deodarone	1693.50	Sesquiterpene Ketone
43	39.08	8.72%	(E)-gamma-Atlantone	1697.00	Sesquiterpene Ketone

