



Essential Validation Services





Sample:

Client: | Nature's Fusions
Sample: | Cedarwood Himalayan (Cedrus deodara)
Batch # | CEDA18B
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 *Adam Christen*

Validated By:

Essential Validation Services

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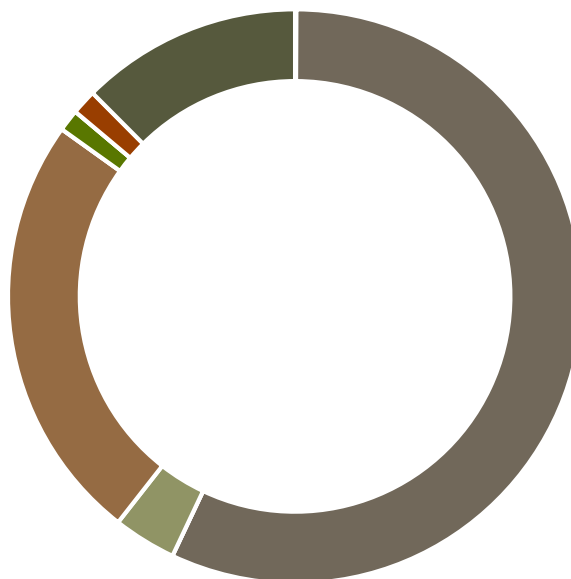
Summary of Analyses

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.



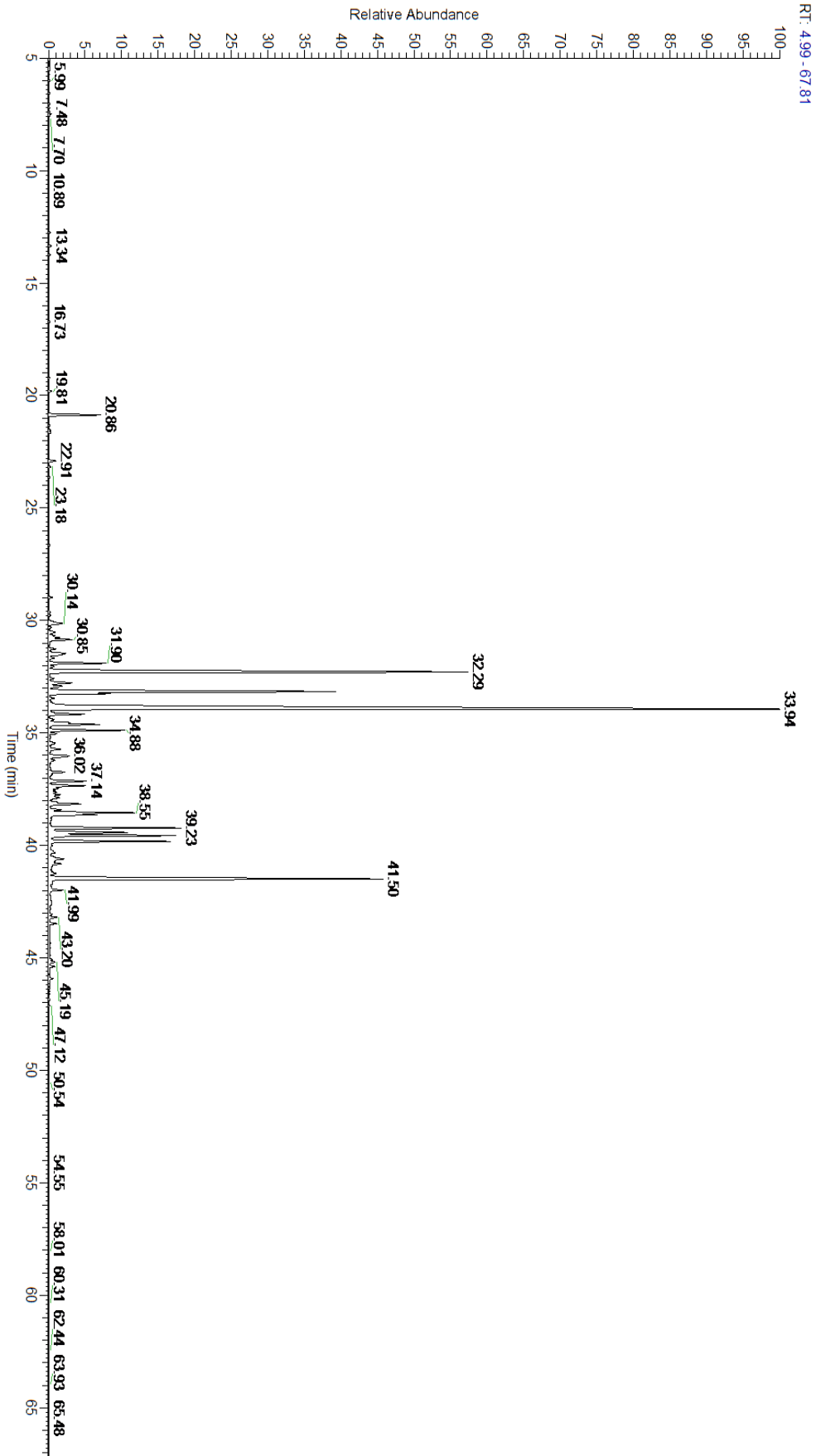
Main Compounds	Percentages
beta-Himachalene	30.38%
alpha-Himachalene	13.16%
(E)-alpha-Atlantone	10.69%
gamma-Himachalene	8.37%
(Z)-gamma-Atlantone	3.12%
(E)-gamma-Atlantone	3.10%
(Z)-alpha-Atlantone	2.80%
Deodarone	2.20%
Allohimachalol	2.17%
gamma-Cuprenene	1.71%
Vestitenone	1.37%
Limona ketone	1.23%
UK Cedarwood	1.22%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
0.08%	56.95%	0.00%	3.55%	24.32%
Esters	Ethers	Aldehydes	Phenols	Other
0.00%	1.23%	0.00%	1.41%	12.47%



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

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Total Percentage		87.54%			
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	7.48	0.05%	Mesityl oxide	787.00	Aliphatic Ketone
2	12.76	0.03%	alpha-Pinene	936.10	Monoterpene
3	14.56	0.01%	beta-Pinene	974.00	Monoterpene
4	16.73	0.02%	Limonene	1029.50	Monoterpene
5	19.21	0.02%	para-Cymenene	1092.43	Monoterpene
6	20.86	1.23%	Limona ketone	1134.50	Simple Phenolic
7	22.91	0.18%	para-Methylacetophenone	1186.50	Simple Phenolic
8	28.97	0.08%	alpha-Longipinene	1357.90	Sesquiterpene
9	30.14	0.53%	beta-Elemene	1389.20	Sesquiterpene
10	30.52	0.21%	UK Cedarwood		
11	30.67	0.13%	Sibirene	1401.20	Sesquiterpene
12	30.75	0.25%	UK Cedarwood		
13	30.85	0.59%	Longifolene	1403.83	Sesquiterpene
14	31.26	0.17%	UK Cedarwood		
15	31.46	0.47%	Himachalene Isomer		
16	31.52	0.22%	UK Cedarwood		
17	31.56	0.19%	trans-alpha-Bergamotene	1435.00	Sesquiterpene
18	31.90	1.37%	Vestitenone	1457.50	Terpenic Ketone
19	32.29	13.16%	alpha-Himachalene	1448.40	Sesquiterpene
20	32.57	0.11%	Thujopsadiene	1465.10	Sesquiterpene
21	32.77	0.71%	UK Cedarwood		
22	32.92	0.39%	UK Cedarwood		
23	33.17	8.37%	gamma-Himachalene	1476.50	Sesquiterpene
24	33.25	1.16%	UK Cedarwood		
25	33.94	30.38%	beta-Himachalene	1497.75	Sesquiterpene
26	34.17	0.89%	alpha-Dehydro-ar-himachalene	1516.00	Sesquiterpene
27	34.41	0.14%	gamma-Dehydro-ar-himachalene	1529.75	Sesquiterpene
28	34.55	0.49%	gamma-Vetivenene	1532.00	Sesquiterpene
29	34.63	1.22%	UK Cedarwood		
30	34.88	1.71%	gamma-Cuprenene	1535.50	Sesquiterpene
31	35.04	0.18%	Calacorene (unknown isomer)	1540.12	Sesquiterpene
32	35.72	0.32%	Himachalene oxide	1578.00	Sesquiterpene Ether
33	37.14	0.91%	beta-Himachalene oxide	1595.95	Sesquiterpene Ether
34	37.35	0.91%	UK Cedarwood		
35	37.46	0.22%	UK Cedarwood		
36	37.74	0.26%	UK Cedarwood		
37	38.17	0.81%	Himachalol	1648.50	Sesquiterpenol
38	38.55	2.17%	Allohimachalol	1660.00	Sesquiterpenol
39	38.63	0.99%	(E)-10,11-Dihydroatlantone	1671.00	Sesquiterpene Ketone
40	39.23	3.12%	(Z)-gamma-Atlantone	1683.00	Sesquiterpene Ketone
41	39.43	2.20%	Deodarone	1693.50	Sesquiterpene Ketone
42	39.56	3.10%	(E)-gamma-Atlantone	1697.00	Sesquiterpene Ketone
43	39.82	2.80%	(Z)-alpha-Atlantone	1707.50	Sesquiterpene Ketone

