



Healing Body, Mind, and Spirit
with Pure Essential Oils Since 1995

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Certificate of Analysis: Himalayan Cedarwood Essential Oil, *Cedrus deodara*, India.

Batch No: IN-837295

Analysis date: 2015-08-10

Internal code: 15G22-NGA5-1-AS

Method: PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).

IDENTIFIED COMPOUNDS

Identification	Colonne: BP5			Colonne: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
α -Pinene	2.80	925	0.06	0.06	981	1.05	Monoterpene
α -Fenchene	3.06	942	0.01	0.01	1022	1.33	Monoterpene
β -Pinene	3.52	971	0.01	0.01	1061	1.67	Monoterpene
Limonene	4.46	1028	0.02	0.02	1154	2.70	Monoterpene
para-Cymenene	5.66	1097	0.01	0.01	1390	6.07	Monoterpene
Limonaketone	6.46	1134	0.91	1.07	1493	8.15	Normonoterp. ketone
α -Longipinene	13.21	1328	0.09	0.10	1410	6.42	Sesquiterpene
Longifolene	16.42	1384	0.67	0.48	1495	8.20	Sesquiterpene
Himachala-2,4-diene	17.80	1406	0.53	0.55	1535	9.42	Sesquiterpene
α -Himachalene	19.44	1428	14.87	14.62	1566	10.46	Sesquiterpene
Vestitenone	20.30	1439	0.90				Sesquiterp. ketone
<i>trans</i> - β -Farnesene	21.05	1449	1.07	0.94	1641	13.51	Sesquiterpene
γ -Himachalene	21.64	1457	8.65	8.89	1615	12.27	Sesquiterpene
11- α H-Himachala-1,4-diene	21.91	1460	1.52	1.16	1616	12.33	Sesquiterpene
β -Himachalene	23.74	1484	36.64	35.99	1638	13.35	Sesquiterpene
α -Dehydro-ar-himachalene	24.61	1496	0.48	0.52	1769	20.56	Sesquiterpene
γ -Dehydro-ar-himachalene	25.61*	1508	1.11	0.77	1827	24.47	Sesquiterpene
Unknown (m/z = 131, 91 (25), 202 (20), 115 (18), 159 (16), 129 (16))	25.61*	1508	[1.11]				Sesquiterpene
<i>trans</i> - α -Bisabolene	27.79	1534	1.20	1.16	1715	17.22	Sesquiterpene
Himachaleneoxide	29.57	1555	0.26	0.27	1867	27.35	Sesquiterp. ether
β -Himachaleneoxide	32.64	1592	0.34	0.37	1892	29.17	Sesquiterp. ether
Himachalol	35.30	1641	1.30	4.24	2104	39.17*	Sesquiterp. alcohol
Allohimachalol	35.90	1654	0.89	0.99	2143	40.25	Sesquiterp. alcohol
(<i>E</i>)-10,11-Dihydroatlantone	36.61*	1668	0.94	0.48	2063	37.75	Sesquiterp. ketone
β -Atlantone	36.61*	1668	[0.94]	0.44	2074	38.16	Sesquiterp. ketone
(<i>Z</i>)- γ -Atlantone	37.43	1685	2.94	[4.24]	2104	39.17*	Sesquiterp. ketone
Deodarone	37.61	1689	1.07	1.13	2116	39.49	Sesquiterp. ketone
Deodarone analog?	37.71	1691	1.30	1.06	2122	39.67	Sesquiterp. ketone
(<i>E</i>)- γ -Atlantone	37.99	1697	3.26	3.14	2130	39.87	Sesquiterp. ketone
(<i>Z</i>)- α -Atlantone	38.78	1719	2.51	2.22	2159	40.69	Sesquiterp. ketone
(<i>E</i>)- α -Atlantone	40.79	1778	11.46	11.15	2230	42.52	Sesquiterp. ketone
Total identified			95.02%	91.85%			

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*: Two or more compounds are coeluting on this column
[xx]: Duplicate percentage due to coelutions, not taken account in the identified total
Note: no correction factor was applied

OTHER DATA

Physical aspect: Bright yellow liquid
Refractive Index: 1.5130 ± 0.0003 (20 °C)

CONCLUSION

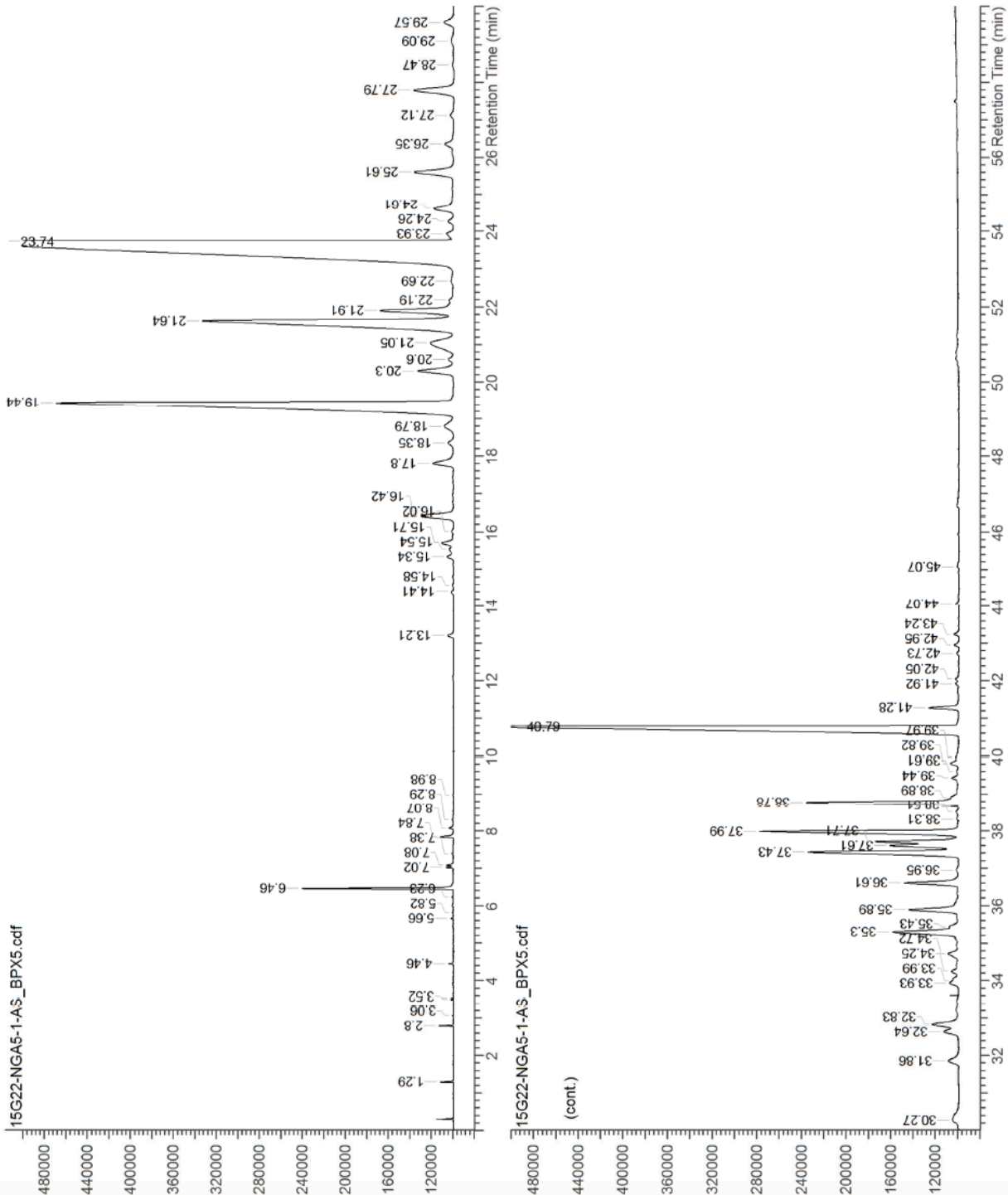
No adulterant, contaminant or dilutant were detected using this method.

(continued)



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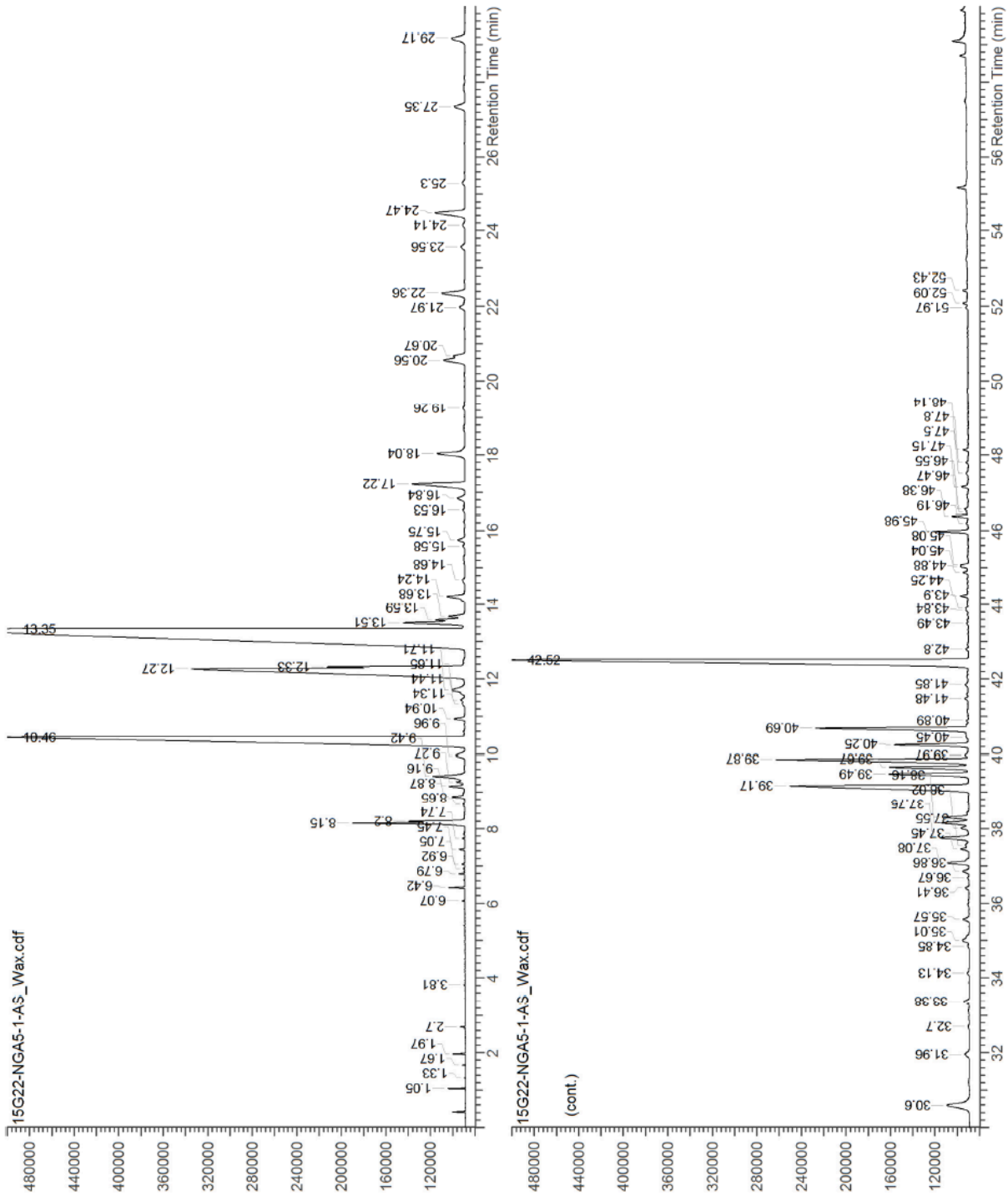


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