



CERTIFICATE OF ANALYSIS

Common Name	:	Fossilized Amber Oil
Latin Name	:	<i>Oleum Succini / Anbar</i>
Country of Origin	:	Himalaya Mountains, China
Cultivation Method	:	Mined, not cultivated
Type	:	Authentic Oil of Amber
Extraction Method	:	Destructive Distillation with additional refining
Plant Part	:	N/A
Use	:	Perfumery as a fixative and base note
Physical appearance	:	Dark Viscous Liquid
Odor	:	Smoky, Leathery, Woody, with great tenacity
Solubility	:	Soluble in alcohol and fixed oils
Specific Gravity	:	1.011 +/- 0.002
Refractive Index	:	1.5066 +/- 0.001
Acid Value	:	<20
Flash Point	:	>100° C (closed cup)
Comments	:	Odor quality is excellent. Use highly diluted.

This Oil (destructively distilled from Amber) is an authentic natural product and does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to Eden Botanicals. This product is guaranteed by Eden Botanicals to be of excellent quality.

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Information from Data File:

File: C:\HPCHEM\1\DATA_1-E\E-B001.D
Operator: SPECTRIX LAB, INC.
Date Acquired: 9 Mar 2010 12:49
Method File: DB5CFLMZ
Sample Name: AMBER OIL, FOSSILIZED

Pk#	RT	Area%	Library/ID
1	29.43	0.18	C:\DATABASE\WILEY275.L (matrix artifact)
*2	33.16	0.24	C:\DATABASE\FFNSC13.L Carvacryl methyl ether
*3	34.27	0.48	C:\DATABASE\EO_FRAG.L Copaene<alpha->
*4	35.87	0.24	C:\DATABASE\EO_FRAG.L Elemene<beta->
5	36.31	0.30	C:\DATABASE\EO_FRAG.L (matrix artifact)
6	37.91	4.46	C:\DATABASE\WILEY275.L (matrix artifact)
*7	38.25	0.29	C:\DATABASE\EO_FRAG.L sesquiterpenoid not found
*8	38.51	0.17	C:\DATABASE\WILEY275.L Muurolane-A
9	40.15	0.42	C:\DATABASE\WILEY275.L (matrix artifact)
10	40.38	0.47	C:\DATABASE\WILEY275.L (matrix artifact)
*11	40.86	0.30	C:\DATABASE\WILEY275.L DIHYDRO-NEOCLOVENE-(I)
12	41.28	1.36	C:\DATABASE\EO_FRAG.L (matrix artifact)
13	41.61	0.62	C:\DATABASE\EO_FRAG.L (matrix artifact)
14	42.04	0.27	C:\DATABASE\WILEY275.L (matrix artifact)
15	42.32	0.31	C:\DATABASE\WILEY275.L (matrix artifact)
16	42.55	0.52	C:\DATABASE\WILEY275.L (matrix artifact)
*17	42.80	0.65	C:\DATABASE\WILEY275.L sesquiterpenoid not found

*18	43.72	0.19	C:\DATABASE\WILEY275.L sesquiterpenoid not found
19	44.21	5.26	C:\DATABASE\WILEY275.L not found in ms library MW=206 (matrix artifact?)
20	44.82	0.67	C:\DATABASE\EO_FRAG.L (matrix artifact)
21	45.21	1.48	C:\DATABASE\WILEY275.L (matrix artifact)
*22	45.54	0.24	C:\DATABASE\EO_FRAG.L Guaiene (tentitive)<correct isomer not found->
23	46.03	2.29	C:\DATABASE\WILEY275.L (matrix artifact)
*24	46.36	0.36	C:\DATABASE\EO_FRAG.L Amorpha-4,7(11)-diene
*25	46.57	0.83	C:\DATABASE\EO_FRAG.L Muurolene<alpha->
26	46.95	2.05	C:\DATABASE\WILEY275.L (matrix artifact).
27	47.14	0.13	C:\DATABASE\WILEY275.L not resolved
*28	47.80	0.74	C:\DATABASE\EO_FRAG.L Muurolene<unknown isomer->
*29	48.67	7.34	C:\DATABASE\EO_FRAG.L Calamenene<trans->
*30	48.79	8.06	C:\DATABASE\EO_FRAG.L Calamenene<cis->
*31	49.59	0.59	C:\DATABASE\EO_FRAG.L Amorph-4-ene <1-alpha-, 10-alpha-epoxy->
*32	50.19	0.82	C:\DATABASE\EO_FRAG.L Cadinene<alpha->
*33	50.61	3.40	C:\DATABASE\EO_FRAG.L Calacorene<alpha->
34	51.18	0.86	C:\DATABASE\WILEY275.L (matrix artifact)
35	51.48	0.84	C:\DATABASE\EO_FRAG.L (matrix artifact)
36	51.68	0.51	C:\DATABASE\FFNSC13.L (matrix artifact)
37	51.92	0.84	C:\DATABASE\EO_FRAG.L

(matrix artifact)

38	52.81	1.05	C:\DATABASE\EO_FRAG.L (matrix artifact)
39	53.73	0.86	C:\DATABASE\WILEY275.L (matrix artifact)
40	53.98	0.70	C:\DATABASE\EO_FRAG.L (matrix artifact)
41	54.37	1.14	C:\DATABASE\EO_FRAG.L (matrix artifact)
42	54.81	0.56	C:\DATABASE\EO_FRAG.L (matrix artifact)
*43	55.31	1.60	C:\DATABASE\WILEY275.L Cadina-1(10),6,8-triene \$\$ CALAMENE
44	55.56	0.45	C:\DATABASE\EO_FRAG.L (matrix artifact)
45	56.65	0.51	C:\DATABASE\WILEY275.L (matrix artifact)
46	56.71	0.55	C:\DATABASE\WILEY275.L (matrix artifact)
47	57.28	0.62	C:\DATABASE\EO_FRAG.L (matrix artifact)
48	57.88	1.56	C:\DATABASE\EO_FRAG.L (matrix artifact)
49	58.28	0.30	C:\DATABASE\EO_FRAG.L (matrix artifact)
*50	58.83	1.18	C:\DATABASE\EO_FRAG.L Colocalene<alpha->
51	59.36	0.54	C:\DATABASE\EO_FRAG.L (matrix artifact)
52	59.62	0.41	C:\DATABASE\EO_FRAG.L (matrix artifact)
53	61.49	1.47	C:\DATABASE\EO_FRAG.L (matrix artifact)
54	62.17	1.12	C:\DATABASE\WILEY275.L (matrix artifact)
55	62.54	0.39	C:\DATABASE\WILEY275.L (matrix artifact)
*56	64.03	9.27	C:\DATABASE\EO_FRAG.L Cadalene

57	64.59	0.72	C:\DATABASE\EO_FRAG.L (matrix artifact)
*58	65.17	1.12	C:\DATABASE\EO_FRAG.L Germacra-4(15),5,10(14)-triene
59	65.44	0.53	C:\DATABASE\EO_FRAG.L (matrix artifact)
60	65.58	0.80	C:\DATABASE\EO_FRAG.L (matrix artifact)
61	66.35	0.21	C:\DATABASE\EO_FRAG.L (matrix artifact)
62	66.85	1.00	C:\DATABASE\FFNSC13.L (matrix artifact)
63	67.22	0.49	C:\DATABASE\EO_FRAG.L (matrix artifact)
64	68.34	0.41	C:\DATABASE\EO_FRAG.L (matrix artifact)
65	68.74	1.12	C:\DATABASE\EO_FRAG.L (matrix artifact)
66	69.43	0.37	C:\DATABASE\EO_FRAG.L (matrix artifact)
67	69.78	0.99	C:\DATABASE\WILEY275.L (matrix artifact)
68	72.56	0.34	C:\DATABASE\EO_FRAG.L (matrix artifact)
69	73.23	0.73	C:\DATABASE\EO_FRAG.L (matrix artifact)
70	73.92	0.39	C:\DATABASE\EO_FRAG.L (matrix artifact)
71	74.36	0.55	C:\DATABASE\WILEY275.L (matrix artifact)
72	75.52	1.37	C:\DATABASE\EO_FRAG.L (matrix artifact)
*73	75.73	1.93	C:\DATABASE\EO_FRAG.L Calamenene<5-hydroxy-cis->
74	76.07	0.90	C:\DATABASE\EO_FRAG.L (matrix artifact)
75	76.55	0.63	C:\DATABASE\EO_FRAG.L (matrix artifact)
76	76.94	1.50	C:\DATABASE\WILEY275.L (matrix artifact)

77	77.36	0.75	C:\DATABASE\WILEY275.L (matrix artifact)
78	77.75	2.84	C:\DATABASE\EO_FRAG.L (matrix artifact)
79	78.21	0.55	C:\DATABASE\WILEY275.L (matrix artifact)
80	78.40	1.15	C:\DATABASE\EO_FRAG.L (matrix artifact)
81	78.77	0.29	C:\DATABASE\EO_FRAG.L (matrix artifact)
82	78.87	0.39	C:\DATABASE\EO_FRAG.L (matrix artifact)
83	79.06	0.42	C:\DATABASE\WILEY275.L (matrix artifact)
84	79.30	0.90	C:\DATABASE\EO_FRAG.L (matrix artifact)
85	79.48	0.38	C:\DATABASE\EO_FRAG.L (matrix artifact)
86	79.61	0.40	C:\DATABASE\EO_FRAG.L (matrix artifact)
87	80.25	0.70	C:\DATABASE\EO_FRAG.L (matrix artifact)
88	81.28	0.51	C:\DATABASE\WILEY275.L (matrix artifact)
*89	81.71	0.94	C:\DATABASE\WILEY275.L 7-Hydroxycadalene
*90	81.87	0.17	C:\DATABASE\WILEY275.L Hydroxycadalene isomer
91	82.13	0.48	C:\DATABASE\EO_FRAG.L (matrix artifact)

NOTE: 1) "*" PREFIX OF PEAK # INDICATES ESSENTIAL OIL CONSTIT
 2) TOTAL VALID ESSENTIAL OIL CONSTITUENTS= 41.23%
 3) TOTAL RESIN CONDENSATE AND PYROLIZED CONTENT AS ISOM
 (MATRIX ARTIFACTS)= 58.77%

File : C:\HPCHEM\1\DATA_1-E\E-B001.D
Operator : SPECTRIX LAB, INC.
Acquired : 9 Mar 2010 12:49 using AcqMethod DB5CFLMZ
Instrument : GC/MS Ins
Sample Name: AMBER OIL, FOSSILIZED
Misc Info :
Vial Number: 21

