

BIORUŽA, s. r. .

Laborecká 1, 010 01 Žilina, IČO: 52234070, IČ DPH: SK2120953802, tel.: 00421 905 864 140, info@bioruza.sk

CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Cedarwood, Himalayan
LATIN NAME	<i>Cedrus deodora</i>
COUNTRY OF ORIGIN	Himalayan Mountains, India
CULTIVATION METHOD	Wild Grown
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Wood
USE	Aromatherapy, Natural Perfumery

SKU	180
LOT #	19
MANUFACTURING DATE	September 2021
BEST BY DATE	September 2031

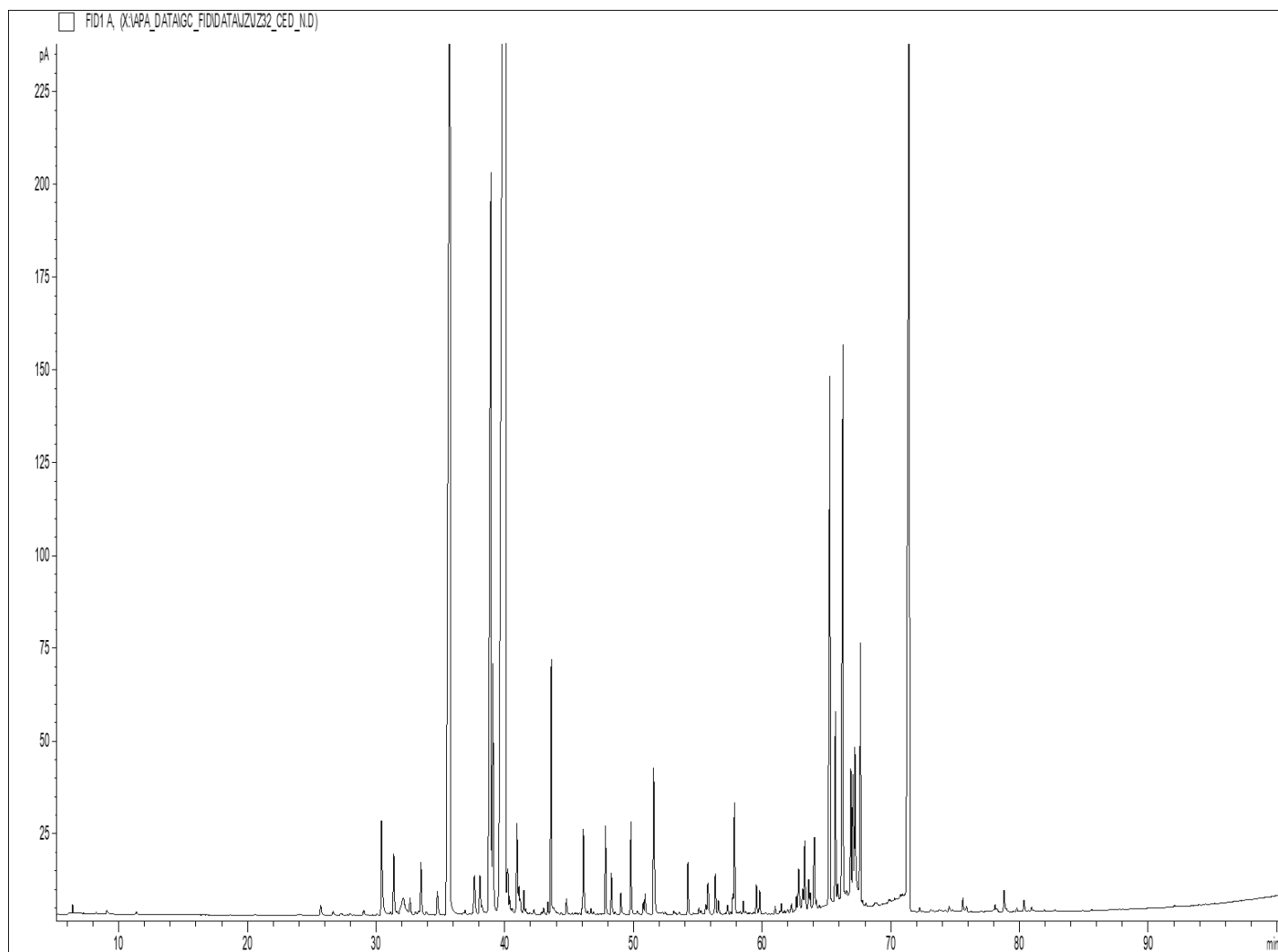
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.92 – 0.97	0.937
REFRACTIVE INDEX @20°C	1.495 – 1.525	1.5170
OPTICAL ROTATION @20°C	+35° to +85°	+59.20°

PHYSICAL APPEARANCE	Transparent liquid	Conforms
COLOR	Pale golden	Conforms
ODOR	Dry, woody, warm, balsamic.	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	Beta-Himachalene, Alpha-Himachalene.
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THIRD PARTY LAB ANALYSIS (GCMS)

CHROMATOGRAPHIC PROFILE:



- CEDARWOOD EO - SKU 180 LOT 19 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
1	6.40	alpha-PINENE	0.03		
2	9.08	3-PENTEN-2-ONE, 4-METHYL-	0.03		
3	11.38	LIMONENE	0.02		0.02
4	25.70	alpha-LONGIPINENE	0.07		
5	26.65	YLANGENE	0.03		
6	27.27	SESQUITERPENE	0.02		
7	27.97	SESQUITERPENE	0.01		
8	29.04	SATIVENE	0.03		
9	30.06	SESQUITERPENE	0.01		
10	30.42	4-ACETYLCYCLOHEX-1-ENE, 1-METHYL-	0.76		
11	31.14	SESQUITERPENE	0.03		
12	31.37	LONGIFOLENE	0.43		
13	31.61	SESQUITERPENE	0.03		
14	32.11	EUDESMATRIENE ISOMER	0.42		
15	32.64	alpha-trans-BERGAMOTENE	0.13		
16	33.08	SESQUITERPENE	0.02		
17	33.30	SESQUITERPENE	0.03		
18	33.49	HIMACHALENE ISOMER	0.36		
19	33.92	SESQUITERPENE	0.02		
20	34.77	HIMACHALENE ISOMER	0.18		
21	35.75	alpha-HIMACHALENE	12.47		
22	36.92	SESQUITERPENE	0.03		
23	37.64	E-beta-FARNESENE	0.35		
24	38.06	SESQUITERPENE	0.30		
25	38.24	SESQUITERPENE	0.06		
26	38.92	gamma-HIMACHALENE	7.49		
27	39.07	11-alpha-HIMACHALA-1,4-DIENE	1.66		
28	40.06	beta-HIMACHALENE	34.34		
29	40.22	SESQUITERPENE	0.37		
30	40.36	SESQUITERPENE	0.11		
31	40.56	SESQUITERPENE	0.04		
32	40.94	ISOTHUYOPSENE	0.62		
33		CURCUMENE ISOMER			
34	41.10	SESQUITERPENE Mw=202	0.16		
35	41.20	COMPOUND Mw=222	0.09		
36	41.48	SESQUITERPENE Mw=202	0.13		
37	41.63	SESQUITERPENE	0.03		
38	41.95	SESQUITERPENE	0.01		
39	42.26	SESQUITERPENE	0.03		
40	42.83	SESQUITERPENE	0.01		
41	43.01	p-METHYLACETOPHENONE	0.05		
42	43.34	alpha-CURCUMENE	0.07		
43	43.61	trans-alpha-BISABOLENE	1.41		

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Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
44	43.77	COMPOUND Mw=190	0.07		
45	44.37	SESQUITERPENE Mw=202	0.01		
46	44.78	SESQUITERPENE Mw=202	0.10		
47	45.46	TERPENIC COMPOUND	0.01		
48	45.82	TERPENIC COMPOUND	0.01		
49	46.11	EUDESMATRIENE ISOMER	0.59		
50	46.43	CALAMENENE	0.03		
51	46.68	AROMATIC COMPOUND	0.04		
52	46.89	AROMATIC COMPOUND	0.02		
53	47.83	alpha-DEHYDRO-ar-HIMACHALENE	0.48		
54	48.28	CADINA-1,6,8-TRIENE	0.25		
55	49.01	VESTITENONE ISOMER	0.14		
56	49.80	gamma-DEHYDRO-ar-HIMACHALENE	0.54		
57	50.28	SESQUITERPENONE	0.03		
58	50.76	AROMATIC COMPOUND	0.07		
59	50.90	alpha-CALACORENE	0.12		
60	51.57	VESTITENONE	1.03		
61	51.99	AROMATIC COMPOUND	0.03		
62	52.25	AROMATIC COMPOUND	0.02		
63	52.47	COMPOUND Mw=218	0.02		
64	53.13	TERPENIC COMPOUND	0.02		
65	53.26	beta-CALACORENE	0.01		
66	53.55	COMPOUND Mw=202	0.02		
67	54.23	COMPOUND Mw=218	0.29		
68	55.08	SESQUITERPENIC COMPOUND	0.04		
69	55.22	AROMATIC COMPOUND	0.03		
70	55.62	SESQUITERPENIC COMPOUND	0.07		
71	55.78	SESQUITERPENIC COMPOUND	0.26		
72	56.36	beta-HIMACHALENE OXIDE	0.26		
73	56.60	AROMATIC COMPOUND	0.09		
74	57.30	AROMATIC COMPOUND	0.07		
75	57.56	COMPOUND Mw=218	0.01		
76	57.72	COMPOUND Mw=220	0.09		
77	57.84	AROMATIC COMPOUND Mw=200	0.67		
78	58.13	CADALENE ISOMER	0.02		
79	58.31	COMPOUND Mw=200	0.02		
80	58.53	COMPOUND Mw=220	0.07		
81	58.70	SESQUITERPENIC COMPOUND	0.02		
82	58.92	AROMATIC COMPOUND	0.01		
83	59.06	AROMATIC COMPOUND	0.01		
84	59.35	AROMATIC COMPOUND	0.02		
85	59.56	COMPOUND Mw=220	0.18		
86	59.81	COMPOUND Mw=220	0.15		

- CEDARWOOD EO - SKU 180 LOT 19 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
87	61.01	AROMATIC COMPOUND	0.05		
88	61.36	AROMATIC COMPOUND	0.02		
89	61.49	AROMATIC COMPOUND	0.07		
90	61.73	SESQUITERPENIC COMPOUND	0.03		
91	61.98	AROMATIC COMPOUND	0.04		
92	62.23	SESQUITERPENIC COMPOUND	0.02		
93	62.28	AROMATIC COMPOUND	0.07		
94	62.65	SESQUITERPENIC COMPOUND	0.09		
95	62.84	LONGIBORNEOL	0.36		
96	63.15	SESQUITERPENIC COMPOUND	0.17		
97	63.31	OXYGENED COMPOUND	0.43		
98	63.62	TERPENIC COMPOUND	0.19		
99	63.74	SESQUITERPENIC COMPOUND	0.12		
100	64.06	KETONIC COMPOUND	0.56		
101	64.20	COMPOUND Mw=220	0.06		
102	64.45	TERPENIC COMPOUND	0.03		
103	65.26	Z-gamma-ATLANTONE	3.46		
104	65.69	HIMACHALOL	1.04		
105	65.87	AROMATIC COMPOUND	0.11		
106	66.28	E-gamma-ATLANTONE	3.73		
107	66.54	AROMATIC COMPOUND	0.05		
108	66.89	DEODARONE ISOMERE	0.70		
109	67.06	DEODARONE ISOMERE	0.67		
110	67.22	ALLO-HIMACHALOL	1.03		
111	67.30	Z-alpha-ATLANTONE	4.81		
112	67.80	COMPOUND Mw=216	0.01		
113	68.08	AROMATIC COMPOUND	0.02		
114	68.75	SESQUITERPENIC COMPOUND	0.02		
115	68.88	AROMATIC COMPOUND	0.02		
116	69.85	SESQUITERPENIC COMPOUND	0.01		
117	69.98	SESQUITERPENIC COMPOUND	0.01		
118	70.30	AROMATIC COMPOUND	0.01		
119	70.73	AROMATIC COMPOUND	0.02		
120	70.89	AROMATIC COMPOUND	0.01		
121	71.44	E-alpha-ATLANTONE	12.78		
122	72.25	SESQUITERPENIC COMPOUND	0.02		
123	73.09	TERPENIC OXIDE	0.03		
124	73.29	AROMATIC COMPOUND	0.02		
125	73.75	TERPENIC COMPOUND	0.02		
126	74.23	AROMATIC COMPOUND	0.02		
127	74.52	AROMATIC COMPOUND	0.04		
128	74.80	AROMATIC COMPOUND	0.02		
129	75.60	COMPOUND Mw=218	0.08		

- CEDARWOOD EO - SKU 180 LOT 19 -					
Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
130	75.88	SESQUITERPENIC COMPOUND	0.05		
131	78.11	TERPENIC COMPOUND	0.05		
132	78.25	AROMATIC COMPOUND	0.03		
133	78.80	COMPOUND Mw=220	0.17		
134	78.98	SESQUITERPENIC COMPOUND	0.03		
135	79.79	SESQUITERPENIC COMPOUND	0.03		
136	80.35	AROMATIC COMPOUND	0.08		
137	80.93	COMPOUND Mw=220	0.03		
138	82.78	COMPOUND Mw=220	0.01		
		TOTAL	99.96		0.02

This Essential Oil is a 100% pure and natural product.

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