

BIORUŽA, s. r. .

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CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Cypress Leaf - Organic
LATIN NAME	<i>Cupressus sempervirens</i>
COUNTRY OF ORIGIN	Spain
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Branches / Leaves
USE	Aromatherapy, Natural Perfumery.

SKU	685
LOT #	2424
MANUFACTURING DATE	February 2023
RETEST	February 2026

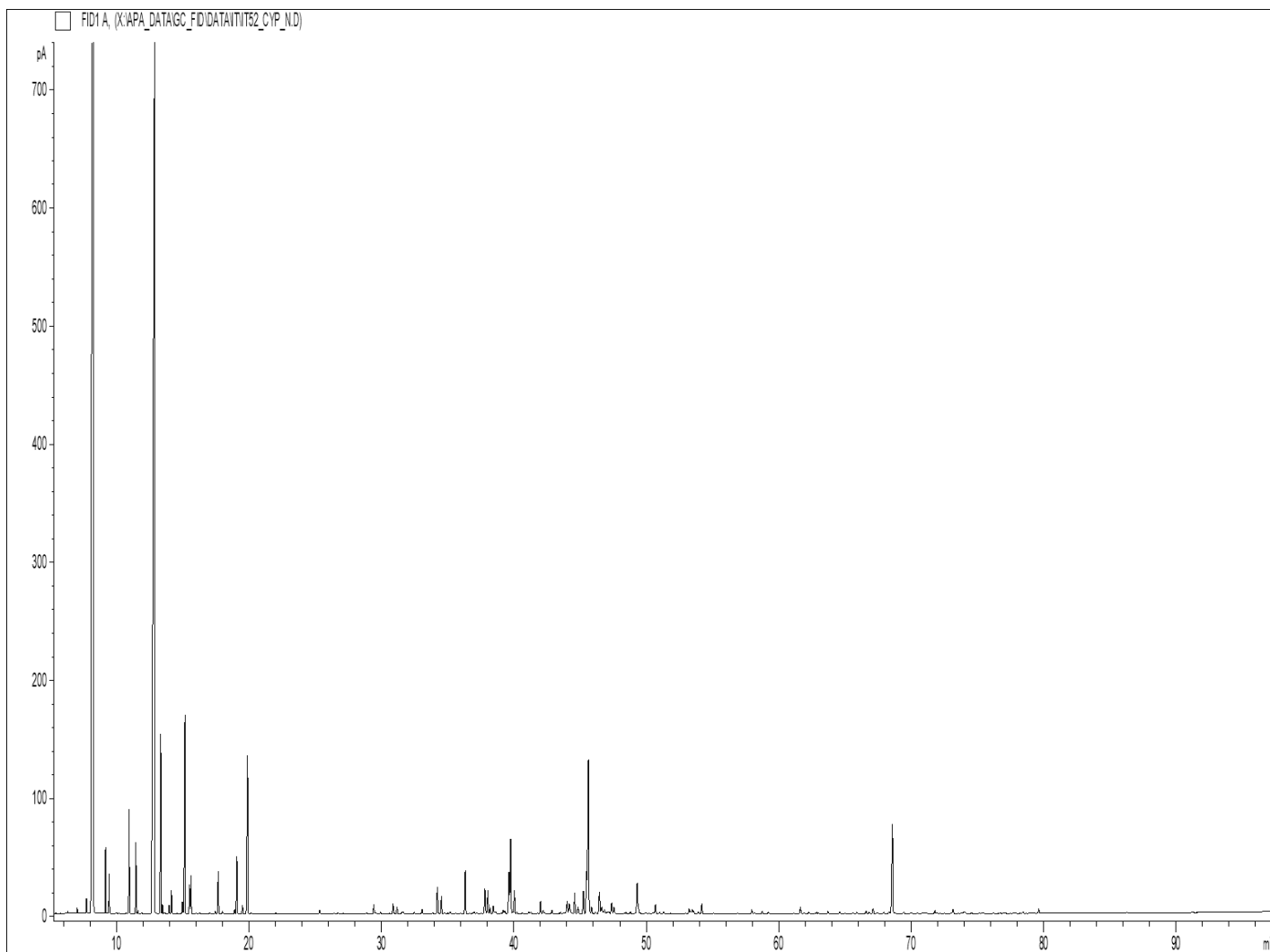
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.863 – 0.885	0.868
REFRACTIVE INDEX @20°C	1.468 – 1.478	1.4699
OPTICAL ROTATION @20°C	+15° to +30°	+20°.1

PHYSICAL APPEARANCE	Transparent liquid	Conforms
COLOR	Colorless to pale yellow	Conforms
ODOR	Fresh, resinous, rustic and wooded.	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	Alpha-Pinene, Delta-3-Carene.
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THIRD PARTY LAB ANALYSIS (GCMS)

CHROMATOGRAPHIC PROFILE:



- CYPRESS LEAF ORG - SKU 275 LOT 20

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
1	6,33	TERPENIC COMPOUND	0,01		
2	7,03	BORNYLENE	0,04		
3	7,74	TRICYCLEN	0,17		
4	8,26	alpha-PINENE	49,43		
5	8,30	alpha-THUYENE	0,37		
6	9,17	alpha-FENCHENE	0,55		
7	9,45	CAMPHENE	0,34		
8	10,96	beta-PINENE	1,05		
9	11,46	SABINENE	0,71		
10	11,62	PINADIENE	0,03		
11	12,86	delta3-CARENE	20,85		
12	13,34	beta-MYRCENE	1,96		
13	13,46	alpha-PHELLANDRENE	0,08		
14	13,97	o-CYMENE	0,09		
15	14,15	alpha-TERPINENE	0,25		
16	14,97	ISOSYLVESTRENE	0,15		
17	15,16	LIMONENE	2,51		2,51
18	15,51	1,8-CINEOLE	0,34		
19	15,62	beta-PHELLANDRENE	0,41		
20	16,27	1,3,8-p-MENTHATRIENE	0,01		
21	17,03	cis-beta-OCIMENE	0,01		
22	17,45	TERPENIC COMPOUND	0,03		
23	17,68	gamma-TERPINENE	0,50		
24	17,99	trans-beta-OCIMENE	0,03		
25	18,92	m-CYMENE	0,05		
26	19,08	p-CYMENE	0,70		
27	19,51	ISOTERPINOLENE	0,11		
28	19,89	TERPINOLENE	2,28		
29	20,17	TERPINOLENE ISOMER	0,02		
30	22,02	PINOL	0,02		
31	25,33	alpha-PINENE OXIDE	0,05		
32	26,72	COMPOUND Mw=152	0,02		
33	27,09	SESQUITERPENE	0,01		
34	28,33	PERILLENE	0,01		
35	28,87	DIMETHYLSTYRENE ISOMER	0,02		
36	29,42	alpha,p-DIMETHYLSTYRENE	0,15		
37	29,59	MENTHATRIENE ISOMER	0,01		
38	29,94	LIMONENE cis-1,2-EPOXIDE	0,03		
39	30,61	SESQUITERPENE	0,01		
40	30,87	alpha-CUBEBENE	0,16		
41	31,17	4,8-TERPINOLENE EPOXIDE	0,10		
42	31,33	COMPOSÉ Mw=134	0,01		
43	31,55	SESQUITERPENE	0,03		

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
44	31,63	delta-ELEMENE	0,04		
45	32,48	YLANGENE	0,03		
46	33,07	alpha-COPAENE	0,07		
47	33,88	SESQUITERPENE	0,02		
48	34,22	CAMPHOR	0,43		
49	34,53	KARAHANAENONE	0,26		
50	34,72	beta-BOURBONENE	0,02		
51	35,00	SESQUITERPENE	0,02		
52	35,19	TERPENIC COMPOUND	0,03		
53	35,60	COMPOUND Mw=150	0,02		
54	35,97	SESQUITERPENE	0,02		
55	36,12	ISOPINOCAMPHONE	0,01		
56	36,33	LINALOOL	0,61		0,61
57	36,66	COMPOUND Mw=150	0,02		
58	36,91	COMPOUND Mw=152	0,02		
59	37,02	LINALYL ACETATE	0,03		
60	37,19	alpha-cis-BERGAMOTENE	0,02		
61	37,54	PINOCARVONE	0,01		
62	37,81	alpha-CEDRENE	0,43		
63	38,03	SESQUITERPENE	0,38		
64	38,21	epsilon-CADINENE	0,09		
65	38,45	BORNYL ACETATE	0,14		
66	38,58	COMPOUND Mw=152	0,02		
67	38,64	ALIPHATIC ESTER	0,03		
68	39,05	SESQUITERPENE	0,03		
69	39,20	beta-ELEMENE	0,06		
70	39,31	beta-CUBEBENE	0,06		
71	39,63	beta-CARYOPHYLLENE	0,67		
72	39,75	TERPINENE-4-OL	1,17		
73	39,91	COMPOUND Mw=152	0,03		
74	40,04	TERPINEN-4-YL ACETATE	0,36		
75	40,22	SESQUITERPENE	0,04		
76	40,64	LAVANDULYL ACETATE	0,02		
77	41,12	THUYOPSENE	0,03		
78	41,29	MYRTENAL	0,05		
79	41,78	CADINADIENE ISOMER	0,02		
80	42,00	UMBELLULONE	0,20		
81	42,20	CADINA-3,5-DIENE	0,09		
82	42,87	trans-PINOCARVEOL	0,08		
83	43,51	ZONARENE	0,03		
84	43,74	CRYPTONE	0,03		
85	44,03	alpha-HUMULENE	0,24		
86	44,18	cis-4,5-MUROLADIENE	0,23		

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
87	44,38	SESQUITERPENE	0,02		
88	44,59	TERPENIC COMPOUND	0,32		
89	44,84	TERPENIC COMPOUND	0,14		
90	45,24	gamma-MUUROLENE	0,38		
91	45,48	alpha-TERPINEOL	0,61		
92	45,63	TERPENYL ACETATE	3,01		
93	45,86	BORNEOL	0,12		
94		VERBENONE			
95	46,15	TERPENIC COMPOUND	0,03		
96	46,46	GERMACRENE D	0,41		
97	46,63	SESQUITERPENE	0,15		
98	46,84	MUUROLADIENE ISOMER	0,10		
99	47,08	SESQUITERPENE	0,05		
100	47,17	SESQUITERPENE	0,03		
101	47,38	alpha-MUUROLENE	0,20		
102	47,55	TERPENIC COMPOUND	0,13		
103	48,32	SESQUITERPENE	0,01		
104	48,46	COMPOUND Mw=150	0,03		
105	48,79	TERPENIC ALCOHOL	0,04		
106	49,31	delta-CADINENE	0,65		
107		gamma-CADINENE			
108	49,53	CITRONELLOL	0,02		0,02
109	49,93	p-METHYLACETOPHENONE	0,03		
110	50,22	alpha-CURCUMENE	0,02		
111	50,51	SESQUITERPENE	0,03		
112	50,68	TERPENIC ALCOHOL	0,16		
113	51,00	MYRTENOL	0,04		
114	51,30	SESQUITERPENE	0,04		
115	51,83	TERPENIC ALCOHOL	0,02		
116	52,97	CUPARENE	0,01		
117	53,22	COMPOUND Mw=152	0,08		
118	53,33	GERMACRENE B	0,04		
119	53,46	cis-CALAMENENE	0,08		
120	53,57	trans-CALAMENENE	0,04		
121	53,92	m-CYMENE-8-OL	0,03		
122	54,19	p-CYMENE-8-OL	0,17		
123	55,08	COMPOUND Mw=220	0,01		
124	56,90	SESQUITERPENOL	0,01		
125	57,96	PIPERITENONE	0,07		
126	58,15	alpha-CALACORENE	0,02		
127	58,75	KETONIC COMPOUND	0,05		
128	59,20	TERPENIC COMPOUND	0,04		
129	61,13	ISOCARYOPHYLLENE OXIDE	0,02		

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
130	61,63	CARYOPHYLLENE OXIDE	0,11		
131	61,90	OXYGENED COMPOUND	0,02		
132	62,27	OXYGENED COMPOUND	0,03		
133	62,73	ALIPHATIC ESTER	0,01		
134	62,87	KETONIC COMPOUND	0,02		
135	63,71	DECADIENYL ISOVALERATE	0,03		
136	64,60	EPOXY-6,7-HUMULENE	0,03		
137	65,59	SESQUITERPENOL	0,02		
138	65,90	SESQUITERPENOL	0,03		
139	66,60	ELEMOL	0,05		
140	66,83	cis-1,2-DIHYDROXY-p-MENTH-2-ENE	0,03		
141	67,13	TERPENIC COMPOUND	0,09		
142	67,52	AROMATIC COMPOUND	0,02		
143	67,93	SESQUITERPENOL	0,02		
144	68,34	SESQUITERPENOL	0,04		
145	68,59	CEDROL	1,65		
146	68,80	SESQUITERPENOL	0,01		
147	69,44	SESQUITERPENOL	0,03		
148	70,48	SESQUITERPENOL	0,01		
149	71,17	T-CADINOL	0,02		
150	71,79	THYMOL	0,05		
151	71,93	SESQUITERPENOL	0,03		
152	72,49	SESQUITERPENOL	0,02		
153	73,04	DITERPENE	0,01		
154	73,17	CARVACROL	0,07		
155	73,96	beta-EUDESOL	0,02		
156	74,06	alpha-CADINOL	0,04		
157	75,16	SESQUITERPENOL	0,01		
158	75,47	DITERPENE	0,01		
159	76,22	COMPOUND Mw=220	0,01		
160	76,73	COMPOUND Mw=220	0,01		
161	76,97	COMPOUND Mw=220	0,01		
162	78,44	SANDARACOPIMARADIENE	0,03		
163	79,63	MANOYL OXIDE	0,08		
164	86,32	ABIETATRIENE	0,01		
		TOTAL	99,99		3,14

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