

BIORUŽA, s. r. o.

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CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Sage - Organic
LATIN NAME	<i>Salvia officinalis</i>
COUNTRY OF ORIGIN	Bulgaria
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Leaves/Tops
USE	Aromatherapy, Natural Perfumery, Cosmetics

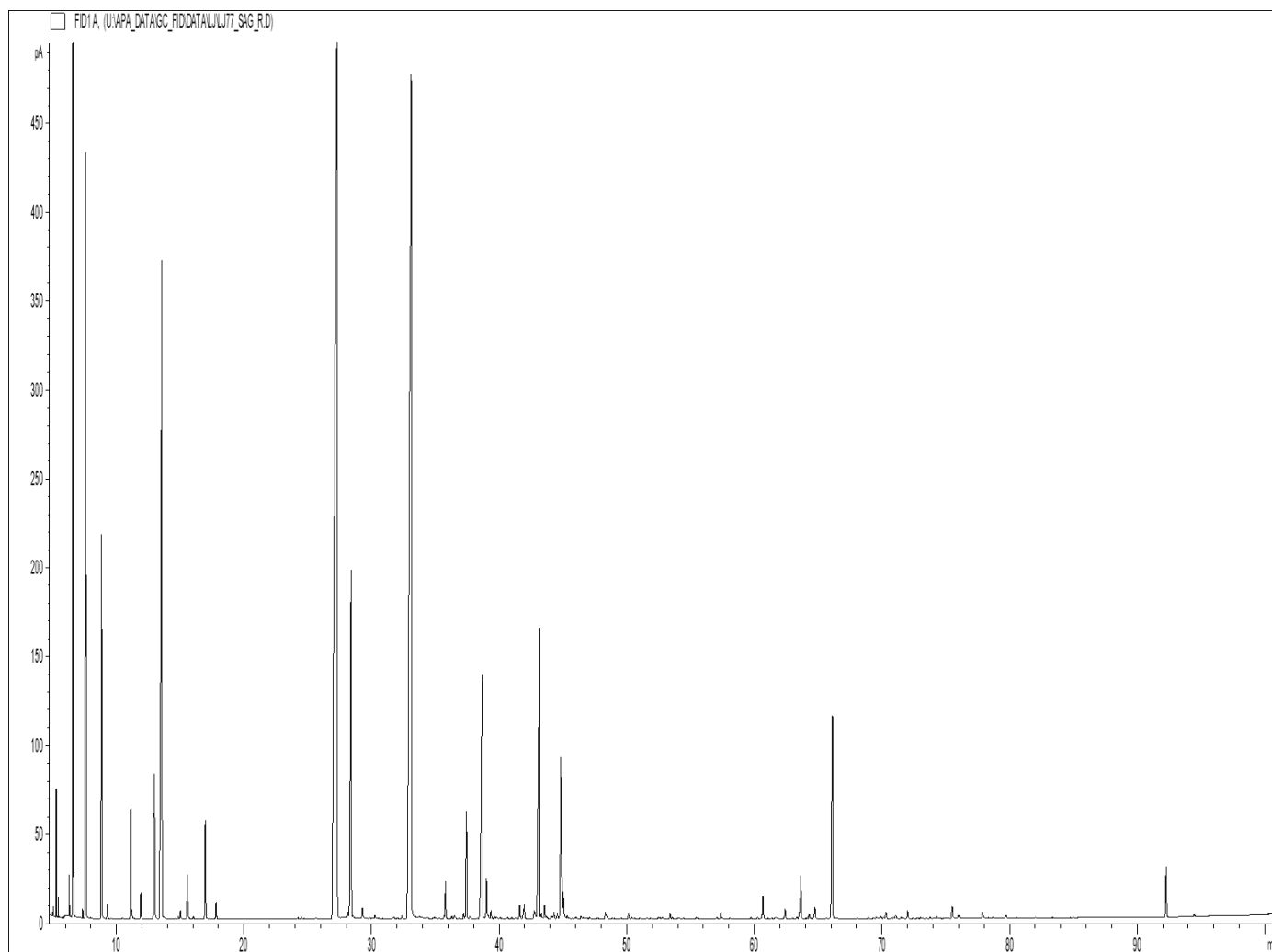
LOT #	2/25
MANUFACTURING DATE	June 2025
UPDATED BEST BY DATE	June 2028

	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.91-0.93	0.917
REFRACTIVE INDEX @20°C	1.458 - 1.475	1.466
OPTICAL ROTATION @20°C	-3° to +30°	+6.3°

PHYSICAL APPEARANCE	Liquid	Conforms
COLOR	Colorless to yellow	Conforms
ODOR	Strong camphoraceous/herbaceous penetrating aroma.	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	Alpha-Thujone, Camphor, 1,8-Cineole.
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CHROMATOGRAPHIC PROFILE:



- ORGANIC SAGE EO - LOT 2 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
1	5.04	ISOVALERALDEHYDE	0.05		
2	5.28	Z-SALVENE	0.46		
3	5.45	E-SALVENE	0.08		
4	6.30	TRICYCLEN	0.20		
5	6.60	alpha-PINENE	5.50	1.0 - 6.5	5.50
6	6.63	alpha-THUYENE	0.21		
7	7.36	alpha-FENCHENE	0.06		
8	7.60	CAMPHENE	4.63	1.5 - 7.0	
9	8.84	beta-PINENE	2.56		2.56
10	9.29	SABINENE	0.09		
11	9.38	PINADIENE	0.01		
12	10.48	delta3-CARENE	0.01		
13	11.14	beta-MYRCENE	0.82		
14	11.23	alpha-PHELLANDRENE	0.07		
15	11.39	psi-LIMONENE	0.01		
16	11.93	alpha-TERPINENE	0.22		0.22
17	12.99	LIMONENE	1.57	0.50 - 3.0	1.57
18	13.59	1,8-CINEOLE	9.65	5.5 - 13.0	
19	13.78	1,3,8-p-MENTHATRIENE	0.03		
20	14.87	COMPOUND Mw=152	0.02		
21	15.03	cis-beta-OCIMENE	0.07		
22	15.59	gamma-TERPINENE	0.39		
23	16.04	trans-beta-OCIMENE	0.02		
24	16.99	p-CYMENE	0.87		
25	17.82	TERPINOLENE	0.15		0.15
26	24.21	COMPOUND Mw=122	0.02		
27	24.50	1-OCTEN-3-YL ACETATE	0.01		
28	25.63	3-OCTANOL	0.02		
29	27.31	alpha-THUYONE	27.91	18.0 - 43.0	
30	28.15	alpha,p-DIMETHYLSTYRENE	0.06		
31	28.39	beta-THUYONE	4.48	3.0 - 8.5	
32	28.53	COMPOUND Mw=152	0.04		
33	29.28	1-OCTEN-3-OL	0.11		
34	30.26	trans-THUYANOL	0.04		
35	30.43	LINALOOL trans-OXIDE	0.01		
36	31.69	alpha-CAMPHOLENAL	0.03		
37	32.05	YLANGENE	0.02		
38	32.37	alpha-COPAENE	0.04		
39	33.10	CAMPHOR	19.59	4.5 - 24.5	19.59
40	33.28	PINOCAMPHONE	0.08		
41	33.74	beta-BOURBONENE	0.05		
42	34.35	alpha-GURJUNENE	0.01		
43	34.92	ISOPINOCAMPHONE	0.02		

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Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
44	35.68	cis-THUYANOL	0.02		
45	35.79	LINALOOL	0.34	≤ 1.0	0.34
46	36.28	LINALYL ACETATE	0.03	-	0.03
47	36.48	TERPENIC COMPOUND	0.03		
48	36.56	trans-p-MENTH-2-EN-1-OL	0.02		
49	37.23	ISOCARYOPHYLLENE	0.05		
50	37.44	BORNYL ACETATE	1.06	≤ 2.5	
51	37.70	ISOBORNYL ACETATE	0.03		
52	38.65	CAMPHENE HYDRATE	0.03		
53	38.68	beta-CARYOPHYLLENE	3.79		3.79
54	38.82	TERPENIC COMPOUND	0.02		
55	39.02	TERPINENE-4-OL	0.39		
56	39.15	SESQUITERPENE	0.04		
57	39.37	AROMADENDRENE	0.10		
58	39.65	SESQUITERPENE	0.03		
59	39.80	SESQUITERPENE	0.03		
60	40.07	MYRTENAL	0.02		
61	40.67	SESQUITERPENE	0.03		
62	41.00	GERMACRENE A	0.02		
63	41.62	ALLO-AROMADENDRENE	0.15		
64	41.97	trans-PINOCARVEOL	0.20		
65		cis-SABINYL ACETATE			
66	42.76	THUJYLALCOHOL	0.14		
67		ISOBORNEOL			
68	43.17	alpha-HUMULENE	4.69	≤ 12.0	
69	43.31	E-beta-FARNESENE	0.07		
70	43.57	delta-TERPINEOL	0.16		
71	43.74	COMPOUND Mw=152	0.04		
72	44.08	LAVANDULAL	0.03		
73	44.19	MYRTENYL ACETATE	0.02		
74	44.31	gamma-MUUROLENE	0.06		
75	44.57	THUJYLALCOHOL ISOMER	0.05		
76	44.85	BORNEOL	1.92		
77	44.90	alpha-TERPINEOL	0.20		0.20
78	45.04	LEDENE	0.35		
79	45.33	CARVENONE	0.04		
80	46.02	beta-SELINENE	0.03		
81	46.44	alpha-SELINENE	0.03		
82	46.60	alpha-MUUROLENE	0.02		
83	46.73	beta-BISABOLENE	0.03		
84	47.11	cis-CARVYL ACETATE	0.02		
85	47.75	trans-PIPERITOL	0.01		
86	48.34	delta-CADINENE	0.07		

- ORGANIC SAGE EO - LOT 2 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
87	48.45	gamma-CADINENE	0.03		
88	48.50	GERANYL ACETATE	0.01		0.01
89	49.56	MYRCEN-8-YL ACETATE	0.02		
90	50.15	MYRTENOL	0.07		
91	50.43	CAMPHOLENOL	0.02		
92	51.03	trans-SABINOL	0.01		
93	51.59	TERPENIC ESTER	0.01		
94	52.46	cis-CALAMENENE	0.01		
95	52.61	trans-CALAMENENE	0.01		
96	52.78	trans-CARVEOL	0.02		
97	53.40	p-CYMENE-8-OL	0.05		
98	53.58	GERANIOL	0.02		0.02
99	54.11	cis-CARVEOL	0.02		
100	55.46	MYRCEN-8-OL	0.01		
101	57.05	alpha-CALACORENE	0.01		
102	57.39	COMPOUND Mw=200	0.07		
103	59.72	SESQUITERPENIC OXIDE	0.02		
104	60.25	ISOCARYOPHYLLENE OXIDE	0.02		
105	60.68	CARYOPHYLLENE OXIDE	0.25		
106	61.69	COMPOUND Mw=166	0.02		
107	61.85	AROMATIC COMPOUND	0.01		
108	62.42	HUMULOL	0.11		
109	63.34	LEDOL	0.02		
110	63.57	COMPOUND Mw=168	0.06		
111	63.64	EPOXY-6,7-HUMULENE	0.45		
112	64.29	ELEMOL	0.05		
113	64.75	COMPOUND Mw=168	0.14		
114	66.12	VIRIDIFLOROL	2.48		
115	68.07	SPATHULENOL	0.01		
116	68.94	PENTADECANONE, TRIMETHYL-	0.02		
117	69.57	EUGENOL	0.03		0.03
118	69.93	ISOTHYMOL	0.02		
119	70.32	ISOPIMARA-8,15-DIENE	0.07		
120	70.89	THYMOL	0.01		
121	71.09	PHENOLIC COMPOUND Mw=150	0.04		
122	71.50	ISOCARVACROL	0.01		
123	72.02	CARVACROL	0.08		
124	73.06	beta-EUDESMOL	0.01		
125	73.78	DITERPENE	0.01		
126	74.32	COMPOUND Mw=270	0.02		
127	75.51	COMPOUND Mw=220	0.14		
128	75.97	SESQUITERPENIC OXIDE	0.02		
129	76.05	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0.04		

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Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
130	77.89	COMPOUND Mw=220	0.06		
131	78.69	SESQUITERPENIC OXIDE	0.02		
132	79.72	SESQUITERPENIC OXIDE	0.04		
133	92.27	Epi-MANOOL	0.54		
134	94.47	ALIPHATIC COMPOUND	0.02		
		TOTAL	99.92		33.99