

BIORUŽA, s. r. o.

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

CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Frankincense, Oman
LATIN NAME	<i>Boswellia serrata</i>
COUNTRY OF ORIGIN	Oman
CULTIVATION METHOD	Wild Grown
TYPE	Essential Oil
EXTRACTION METHOD	Hydrodistilled
PLANT PART	Resin
USE	Aromatherapy, Natural Perfumery

LOT #	18
MANUFACTURING DATE	January 2026
BEST BY DATE	January 2027

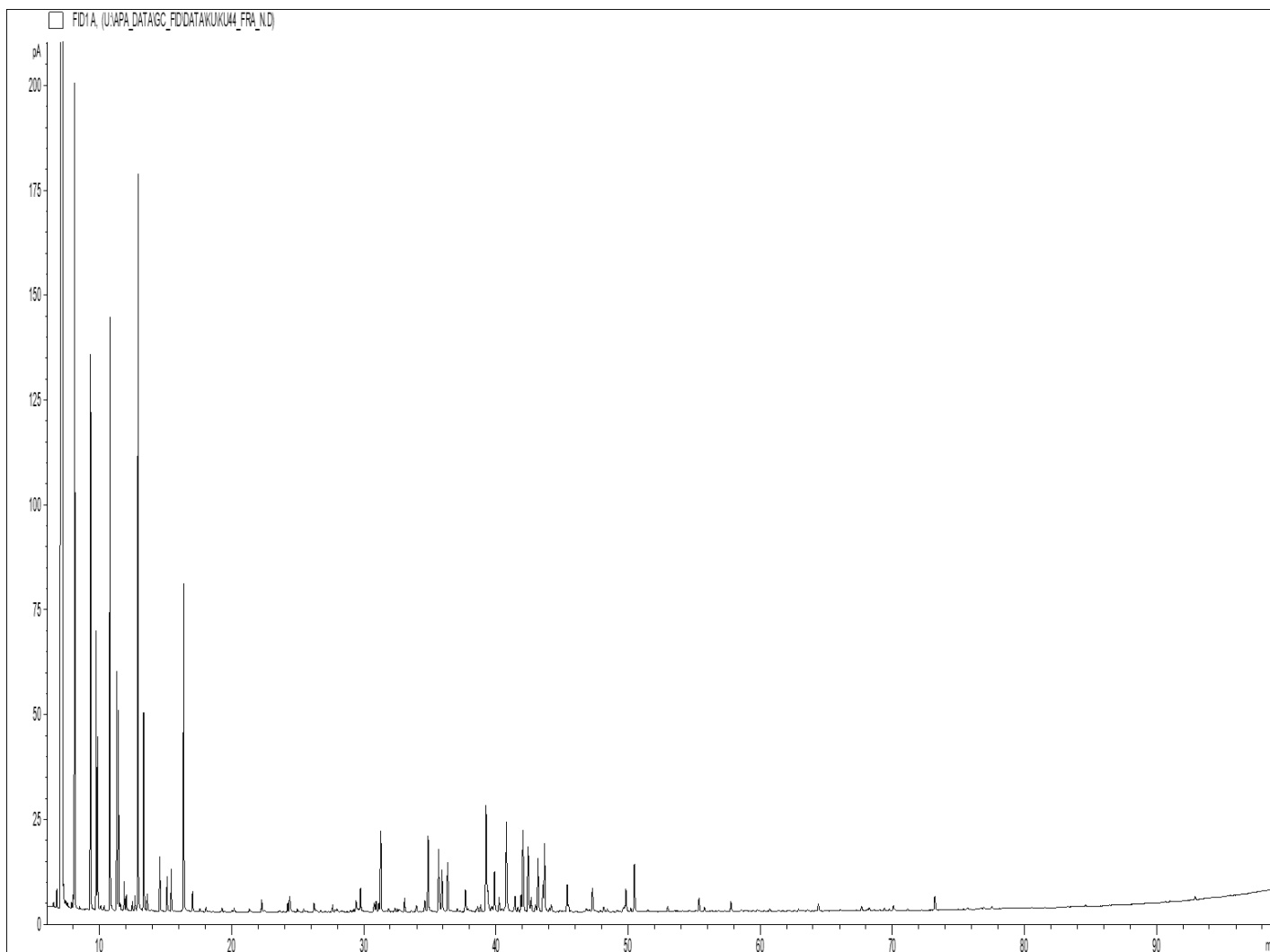
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.850 – 0.890	na
REFRACTIVE INDEX @20°C	1.465 – 1.482	1.4698
OPTICAL ROTATION @20°C	na	na

PHYSICAL APPEARANCE	Clear liquid	Conforms
COLOR	Colorless to pale yellow	Conforms
ODOR	Fresh, warm, resinous, coniferous, with peppery undertones and a top note of orange citrus.	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	Alpha-Pinene, Limonene, Sabinene, Camphene.
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THIRD PARTY LAB ANALYSIS (GCMS)

CHROMATOGRAPHIC PROFILE:



- FRANKINCENSE EO, LOT 18 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
1	5.24	CYCLOALKYL COMPOUND	0.03		
2	6.51	CYCLOALKYL COMPOUND	0.03		
3	6.76	TRICYCLEN	0.09		
4	7.19	alpha-PINENE	76.28		76.28
5	7.25	alpha-THUYENE	0.41		
6	7.26	TERPENE ISOMER	0.10		
7	7.43	TERPENE ISOMER	0.04		
8	7.56	TOLUENE	0.02		
9	7.88	alpha-FENCHENE	0.01		
10	8.02	TERPENE ISOMER	0.06		
11	8.11	CAMPHENE	2.17		
12	9.32	beta-PINENE	1.67		1.67
13	9.75	SABINENE	0.83		
14	9.85	PINADIENE	0.53		
15	10.10	delta2-CARENE	0.03		
16	10.35	p-MENTH-2-ENE	0.02		
17	10.81	delta3-CARENE	1.98		
18	11.31	beta-MYRCENE	0.76		
19	11.44	alpha-PHELLANDRENE	0.64		
20	11.58	psi-LIMONENE	0.03		
21	11.87	o-CYMENE	0.11		
22	12.03	alpha-TERPINENE	0.07		0.07
23	12.48	1,8-CINEOLE, 2,3-DEHYDRO-	0.03		
24	12.68	MENTHATRIENE ISOMER	0.06		
25	12.93	LIMONENE	2.77		2.77
26	13.35	1,8-CINEOLE	0.75		
27		beta-PHELLANDRENE			
28	13.62	1,3,8-p-MENTHATRIENE	0.07		
29	14.57	cis-beta-OCIMENE	0.20		
30	15.12	gamma-TERPINENE	0.14		
31	15.43	trans-beta-OCIMENE	0.17		
32	16.37	p-CYMENE	1.28		
33	17.05	TERPINOLENE	0.09		0.09
34	17.60	DIMETHYLSTYRENE ISOMER	0.02		
35	18.07	CYMENE ISOMER	0.02		
36	19.28	PINOL	0.02		
37	20.20	COMPOUND Mw=138	0.02		
38	21.35	COMPOUND Mw=138	0.02		
39	22.26	alpha-PINENE OXIDE	0.06		
40	22.45	TERPENIC OXIDE	0.02		
41	23.61	COMPOUND Mw=150	0.02		
42	24.23	COMPOUND Mw=152	0.04		
43	24.38	o-METHYLANISOLE	0.09		

- FRANKINCENSE EO, LOT 18 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
44	24.96	PERILLENE	0.02		
45	25.44	COMPOUND Mw=122	0.02		
46	26.22	alpha,p-DIMETHYLSTYRENE	0.06		
47	26.39	alpha-THUYONE	0.02		
48	27.63	alpha-CUBEBENE	0.04		
49	27.83	KETONIC COMPOUND	0.01		
50	27.96	AROMATIC COMPOUND	0.02		
51	28.30	OCTYL ACETATE	0.02		
52	29.24	ISOLEDENE	0.01		
53	29.41	alpha-CAMPHOLENAL	0.09		
54	29.74	alpha-COPAENE	0.13		
55	30.78	CAMPHOR	0.05		0.05
56	30.92	PINOCAMPHONE	0.06		
57	31.12	alpha-BOURBONENE	0.04		
58	31.28	beta-BOURBONENE	0.40		
59	31.87	alpha-GURJUNENE	0.02		
60	32.34	SATIVENE	0.02		
61	32.68	beta1-CUBEBENE	0.02		
62	33.07	LINALOOL	0.07		0.07
63	33.98	PINOCARVONE	0.04		
64	34.61	COMPOUND Mw=152	0.06		
65	34.80	epsilon-CADINENE	0.04		
66	34.86	BORNYL ACETATE	0.38		
67	35.65	beta-ELEMENE	0.32		
68	35.70	beta-CUBEBENE	0.04		
69	35.92	beta-CARYOPHYLLENE	0.23		0.23
70	36.34	TERPINENE-4-OL	0.24		
71	37.07	TERPENIC COMPOUND	0.01		
72	37.68	MYRTENAL	0.13		
73	37.88	SABINAKETONE	0.02		
74	38.60	GERMACRENE A	0.04		
75	38.85	ALLO-AROMADENDRENE	0.04		
76	39.25	trans-PINOCARVEOL	0.62		
77	39.37	cis-VERBENOL	0.14		
78	39.67	COMPOUND Mw=140	0.04		
79	39.88	trans-p-MENTHA-2,8-DIEN-1-OL	0.21		
80	40.23	CRYPTONE	0.07		
81	40.45	SESQUITERPENE	0.03		
82	40.70	alpha-HUMULENE	0.09		
83	40.79	trans-VERBENOL	0.47		
84	41.05	gamma-SELINENE	0.01		
85	41.44	gamma-MUUROLENE	0.09		
86	41.89	TERPENYL ACETATE	0.14		

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Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
87	42.04	alpha-TERPINEOL	0.42		0.42
88	42.15	BORNEOL	0.35		
89	42.42	VERBENONE	0.46		
90	42.65	GERMACRENE D	0.09		
91	42.99	MUUROLADIENE ISOMER	0.04		
92	43.18	beta-SELINENE	0.29		
93	43.55	alpha-SELINENE	0.14		
94		alpha-MUUROLENE			
95	43.67	p-MENTHA-1(7),2-DIEN-8-OL	0.31		
96	43.70	CARVONE	0.09		0.09
97	44.18	BICYCLOGERMACRENE	0.05		
98	45.39	delta-CADINENE	0.14		
99	45.49	gamma-CADINENE	0.03		
100	46.83	SABINOL ISOMER	0.03		
101	47.29	MYRTENOL	0.14		
102	47.47	TERPENIC ALCOHOL	0.02		
103	48.16	TERPENIC ALCOHOL	0.03		
104	48.42	TERPENIC COMPOUND	0.02		
105	49.70	CALAMENENE	0.04		
106	49.83	trans-CARVEOL	0.13		
107	50.20	m-CYMENE-8-OL	0.02		
108	50.47	p-CYMENE-8-OL	0.23		
109	50.50	TOLUENE, 3,5-DIMETHOXY-	0.02		
110	51.48	cis-CARVEOL	0.01		
111	52.99	AROMATIC COMPOUND	0.02		
112	55.37	alpha-PHELLANDRENE DIMER ISOMER	0.07		
113	55.79	SESQUITERPENIC COMPOUND	0.02		
114	57.77	CARYOPHYLLENE OXIDE	0.06		
115	59.77	alpha-PHELLANDRENE DIMER ISOMER	0.01		
116	60.71	EPOXY-6,7-HUMULENE	0.02		
117	64.40	SESQUITERPENIC COMPOUND	0.04		
118	67.67	5-epi-7-epi-alpha-EUDESOL	0.03		
119	68.27	TERPENIC COMPOUND	0.02		
120	69.40	SESQUITERPENOL	0.01		
121	70.08	beta-EUDESOL	0.03		
122	73.23	COMPOUND Mw=168	0.08		
123	75.71	DITERPENE	0.01		
124	76.95	COMPOUND Mw=220	0.01		
125	77.56	AROMATIC COMPOUND	0.01		
126	92.93	TERPENIC COMPOUND	0.02		
		TOTAL	99.93		81.73