

BIORUŽA, s. r. o.

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CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Orange, Sweet
LATIN NAME	<i>Citrus sinensis</i>
COUNTRY OF ORIGIN	Italy
CULTIVATION METHOD	Certified Organic (Ceres)
TYPE	Essential Oil
EXTRACTION METHOD	Cold Pressed
PLANT PART	Peels
USE	Aromatherapy, Natural Perfumery.

LOT #	CO 23/2025
MANUFACTURING DATE	December 2025
BEST BY DATE	December 2027

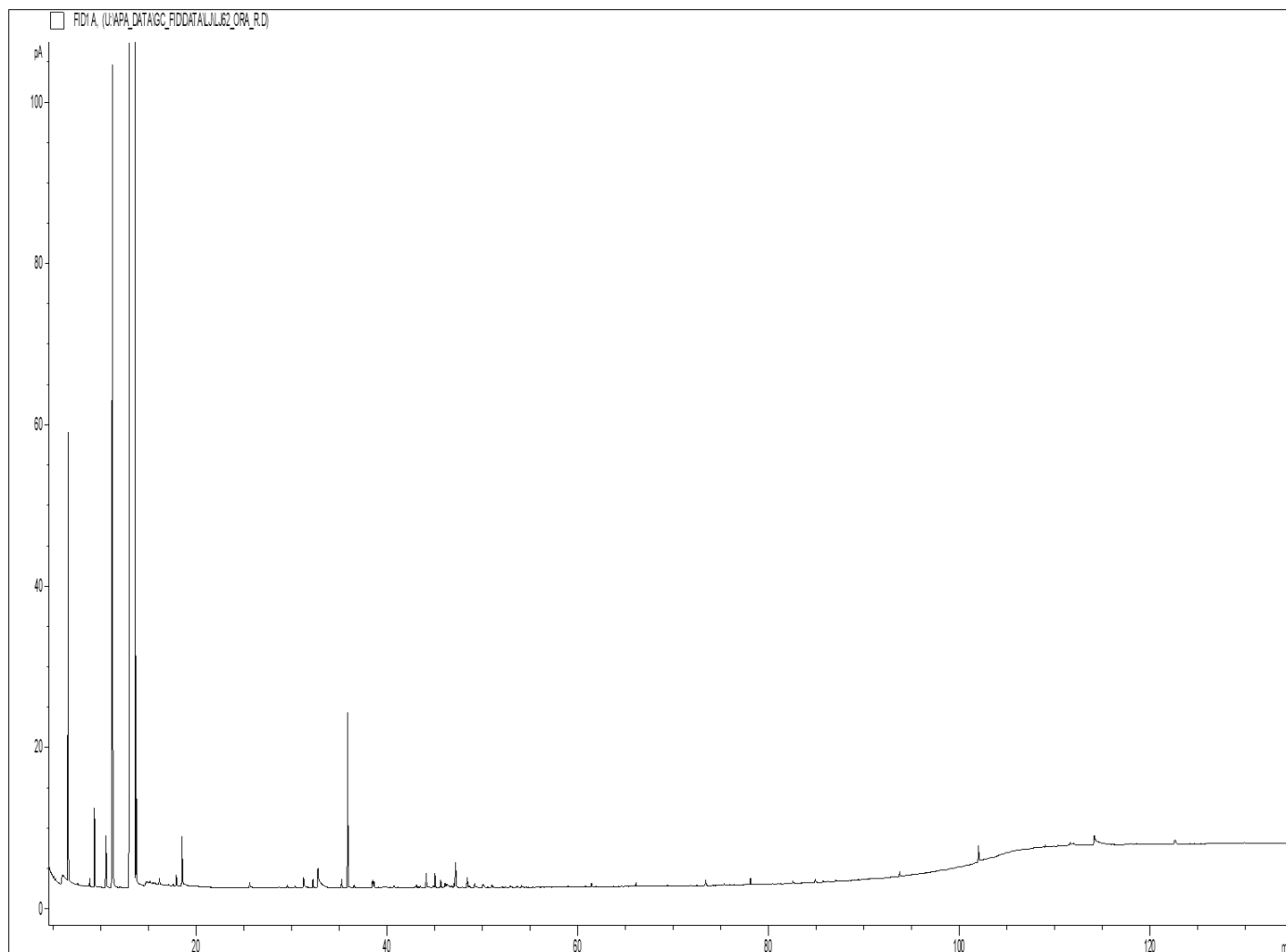
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @25°C	0.840 – 0.852	0.846
REFRACTIVE INDEX @20°C	1.468 – 1.478	1.4746
OPTICAL ROTATION @25°C	+94° to +99°	na

PHYSICAL APPEARANCE	Transparent liquid	Conforms
COLOR	Pale yellow to orange	Conforms
ODOR	Sweet, fresh, citrus.	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use. Refrigerate to preserve freshness.	

PRIMARY CONSTITUENTS	Limonene, Linalool, Decanal, Alpha-Pinene.
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THIRD PARTY LAB ANALYSIS (GCMS)

CHROMATOGRAPHIC PROFILE :



- ORGANIC ORANGE SWEET -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
1	6.61	alpha-PINENE	0.57	0.40 - 0.80	0.57
2	8.88	beta-PINENE	0.02	0.02 - 0.15	0.02
3	9.37	SABINENE	0.15		
4	10.58	delta3-CARENE	0.13		
5	11.26	beta-MYRCENE	2.08	1.5 - 3.5	
6		alpha-PHELLANDRENE			
7	13.60	LIMONENE	95.41	93.0 - 96.0	95.41
8	13.74	beta-PHELLANDRENE	0.32		
9	16.18	trans-beta-OCIMENE	0.01		
10	17.96	TERPINOLENE	0.02		0.02
11	18.57	OCTANAL	0.11	0.10 - 0.60	
12	25.66	NONANAL	0.01	0.01 - 0.10	
13	31.29	CITRONELLAL	0.03		
14	32.28	alpha-COPAENE	0.02		
15	32.80	DECANAL	0.12	0.10 - 0.70	
16	35.28	beta1-CUBEBENE	0.02		
17	35.93	LINALOOL	0.35	0.15 - 0.70	0.35
18	36.59	1-OCTANOL	0.01		
19	38.54	beta-CUBEBENE	0.02		
20	38.68	beta-CARYOPHYLLENE	0.02		0.02
21	40.75	cis-p-MENTHA-2,8-DIEN-1-OL	0.01		
22	43.14	E-beta-FARNESENE	0.01		
23	44.16	NERAL	0.04	0.03 - 0.10	0.04
24	45.07	alpha-TERPINEOL	0.04		0.04
25	45.67	GERMACRENE D	0.02		
26	46.14	VALENCENE	0.01	0.01 - 0.40	
27	46.30	DODECANAL	0.03		
28	47.07	CARVONE	0.01		0.01
29	47.23	GERANIAL	0.06	0.05 - 0.20	0.06
30	48.48	delta-CADINENE	0.03		
31	49.25	CITRONELLOL	0.01		0.01
32	50.12	PERILLALDEHYDE	0.01		
33	61.47	LIMONENE-10-OL	0.01		
34	66.13	SESQUITERPENOL	0.01		
35	73.43	beta-SINENSAL	0.01	0.01 - 0.06	
36	78.12	alpha-SINENSAL	0.02		
37	84.92	LAURIC ACID	0.01		
38	86.24	NOOTKATONE	0.01		
39	93.77	MYRISTIC ACID	0.01		
40	102.03	PALMITIC ACID	0.06		
41	111.93	AROMATIC COMPOUND	0.01		
42	114.19	LINOLEIC ACID	0.10		
43	122.63	AROMATIC COMPOUND	0.02		

- ORGANIC ORANGE SWEET EO - SKU 710 LOT 43 -					
Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
		TOTAL	99.98		96.54