

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	Tangerine (Mandarine)
LATIN NAME	<i>Citrus reticulata</i> Blanco
COUNTRY OF ORIGIN	Italy
CULTIVATION METHOD	Conventional
TYPE	Essential Oil
EXTRACTION METHOD	Cold Pressed
PLANT PART	Peels
USE	Aromatherapy, Natural Perfumery, Cosmetics

LOT #	100
MANUFACTURING DATE	January 2026
BEST BY DATE	January 2028

	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.840 - 0.855	0.849
REFRACTIVE INDEX @20°C	1.47 - 1.48	1.4744
OPTICAL ROTATION @20°C	<i>na</i>	<i>na</i>

PHYSICAL APPEARANCE	Transparent liquid	<i>Conforms</i>
COLOR	Yellow-orange to dark red	<i>Conforms</i>
ODOR	Sparkling, very fresh, sweet, tangy aroma with a bright zesty citrus note.	<i>Conforms</i>
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use. Refrigerate to preserve freshness.	

PRIMARY CONSTITUENTS	Limonene, Gamma-terpinene.
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Index	Name	Time [Min]	Area [uV.Min]	Area % [%]	Allergene
1	alpha-Pinene	6.92	1099.0	1.909	
2	alpha-Thujene	6.97	399.0	0.693	
3	beta-Pinene	8.53	774.5	1.345	
4	Sabinene	8.77	129.1	0.224	
5	Myrcene	9.61	946.4	1.644	
6	alpha-Terpinene	10.04	189.7	0.329	
7	Limonene	10.53	42300.6	73.475	Directive 2003/15EC (7th)
8	b-Phellandrene+1,8 Cineole	10.71	119.2	0.207	
9	gamma-Terpinene	11.53	9761.7	16.956	
10		11.58	16.2	0.028	
11	p-Cymene	12.09	394.9	0.686	
12	Terpinolene	12.35	424.6	0.738	
13	Octanal	12.47	42.5	0.074	

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14	Citronellal	16.66	14.2	0.025	
15	Decanal	17.06	48.4	0.084	
16	Linalool	17.89	47.9	0.083	Directive 2003/15EC (7th)
17	beta-Caryophyllene	19.24	46.8	0.081	
18		20.97	67.9	0.118	
19	Geranial	21.70	26.2	0.046	(= Citral) Directive 2003/15EC (7th)
20		21.92	120.7	0.210	
21		22.85	25.9	0.045	
22	Methyl N-methyl anthranilate	27.82	283.1	0.492	
23		29.28	39.0	0.068	
24	alpha-Sinensal	32.44	253.6	0.440	
Total			57571.2	100.000	

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