

BIORUŽA, s. r. o.

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CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Petitgrain Bigarade
LATIN NAME	<i>Citrus aurantium</i> var. <i>amara</i>
COUNTRY OF ORIGIN	Egypt
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Leaves/Twigs
USE	Aromatherapy, Natural Perfumery.

SKU	4193
LOT #	16
MANUFACTURED	December 2025
BEST BY	December 2028

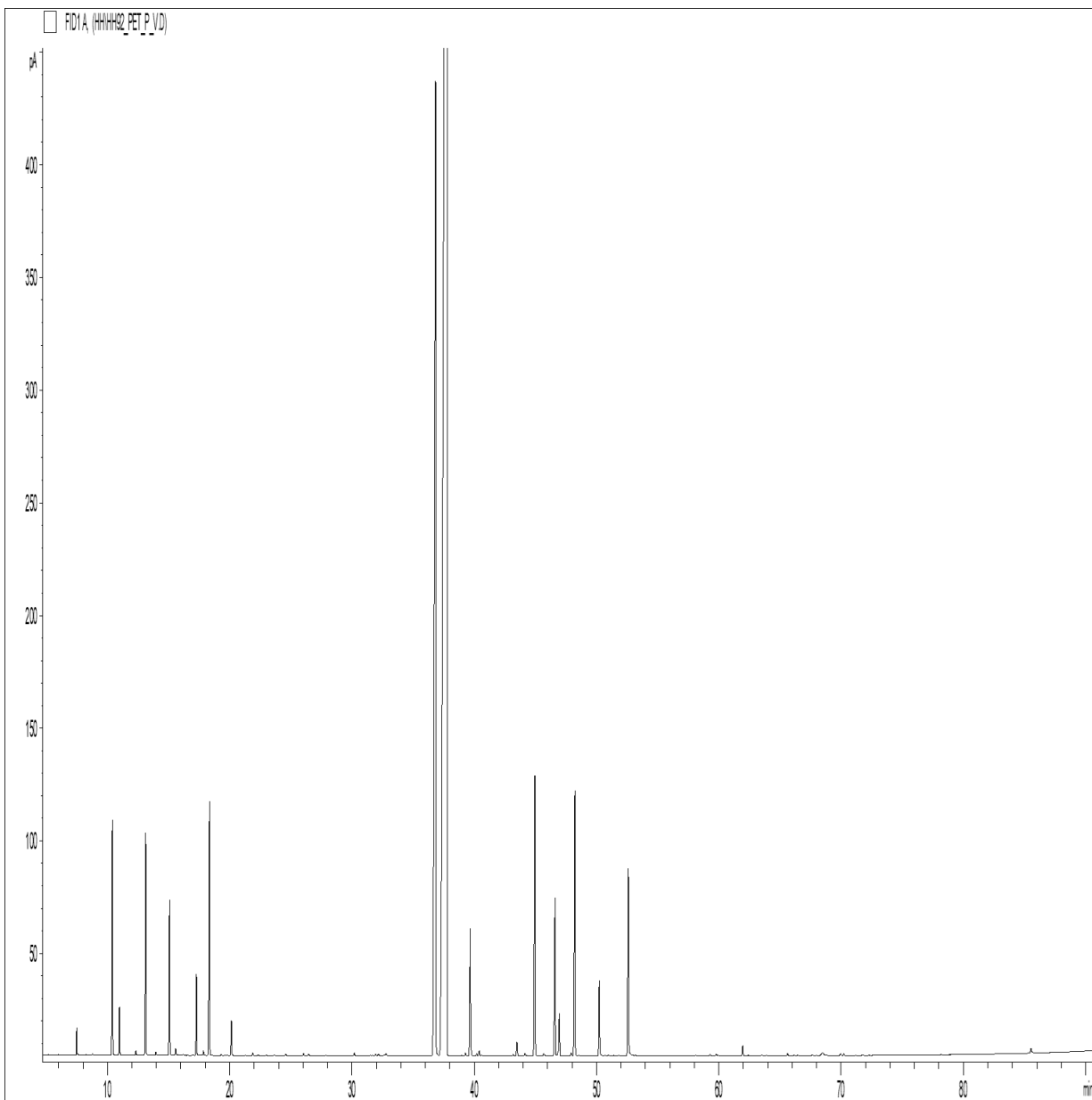
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.885 – 0.898	0.885
REFRACTIVE INDEX @20°C	1.455 – 1.472	1.4577
OPTICAL ROTATION @20°C	-6° to +2°	na

PHYSICAL APPEARANCE	Transparent liquid	<i>Conforms</i>
COLOR	Pale yellow	<i>Conforms</i>
ODOR	Distinct fresh, linalyl acetate-like, slightly bitter orange terpenic odor.	<i>Conforms</i>
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use. Refrigerate to preserve freshness.	

PRIMARY CONSTITUENTS	Linalool, Linalyl Acetate, Limonene.
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THIRD PARTY LAB ANALYSIS (GCMS)

Chromatographic profile:



Identification results: PETITGRAIN BIGARADE ORGANIC - BATCH N° 811 LOT 16					
Peaks	RT (min)	Compound name	%	Norm (%)	Allergens (%)
1	7.49	alpha-PINENE	0.15		
2	8.79	CAMPHENE	0.01		
3	10.40	beta-PINENE	1.71		
4	10.98	SABINENE	0.34		
5	12.33	delta3-CARENE	0.04		
6	13.13	beta-MYRCENE	1.67		
7	13.96	psi-LIMONENE	0.03		
8	15.07	LIMONENE	1.22	1 - 6	1.22
9	15.58	beta-PHELLANDRENE	0.06		
10		1,8-CINEOLE			
11	17.27	cis-beta-OCIMENE	0.61		
12	17.84	gamma-TERPINENE	0.04		
13	18.34	trans-beta-OCIMENE	2.17	1 - 4	
14	20.13	TERPINOLENE	0.28		
15	21.88	1,3,7-NONATRIENE, 4,8-DIMETHYL-	0.02		
16	24.58	1-HEXANOL	0.01		
17	26.04	ALLO-OCIMENE	0.02		
18	26.46	3-HEXEN-1-OL	0.01		
19	30.20	LINALOOL cis-OXIDE	0.02		
20	31.95	LINALOOL trans-OXIDE	0.01		
21	32.17	delta-ELEMENE	0.02		
22	32.65	CITRONELLAL	0.01		
23	32.80	BICYCLOELEMENE	0.03		
24	36.85	LINALOOL	15.73	10 - 32	15.73
25	37.77	LINALYL ACETATE	64.06	40 - 72	
26	39.28	beta-ELEMENE	0.02		
27	39.67	beta-CARYOPHYLLENE	1.18		
28	40.20	TERPINENE-4-OL	0.02		
29	40.41	HOTRIENOL	0.05		
30	43.20	E-beta-FARNESENE	0.01		
31	43.48	alpha-HUMULENE	0.15		
32	44.13	NERAL	0.02		0.02
33	44.95	alpha-TERPINEOL	2.78	1 - 7	
34	45.67	GERMACRENE D	0.02		
35	46.60	NERYL ACETATE	1.47		
36	46.85	GERANIAL	0.03		0.03
37	46.96	BICYCLOGERMACRENE	0.39		
38	47.91	delta-CADINENE	0.03		
39	48.23	GERANYL ACETATE	2.69	1.5 - 5.5	
40	50.22	NEROL	0.70		
41	52.59	GERANIOL	1.85	1 - 4	1.85
42	59.28	3,7-OCTADIENE-2,6-DIOL, 2,6-DIMETHYL-	0.02		
43	59.77	CARYOPHYLLENE OXIDE	0.02		
44	61.95	NEROLIDOL	0.09		
45	65.61	SPATHULENOL	0.02		
46	67.64	T-CADINOL	0.01		
47	68.40	alpha-MUUROLOL	0.01		
48	68.45	4-VINYL-GUAIACOL	0.06		
49	69.94	ALIPHATIC ESTER	0.02		
50	70.21	alpha-CADINOL	0.02		
51	85.52	PHYTOL	0.06		
		TOTAL	100.00		18.86

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