

Certificate of Analysis

Product Name: Bergamot Essential Oil

Botanic Name: Citrus bergamia

Lot Number: BPCBEO42025

Origin: Italy

Expiry Date: April 2028

Properties Specifications Results

Appearance: Light yellowish green to yellowish brown liquid. Complies

Odor: Fragrant sweet-fruity odor. Complies

Solubility: Soluble in alcohol and oils. Insoluble in water. Complies

Specific Gravity: 0.874 to 0.883 @ 20°C 0.874

Optical Rotation: +15° to +32° @ 20°C +27.8°

Refractive Index: 1.4650 to 1.470 @ 20°C 1.466

Limonene: 30 - 45 % 38.0

Linalool: 3 - 15 % 10.6

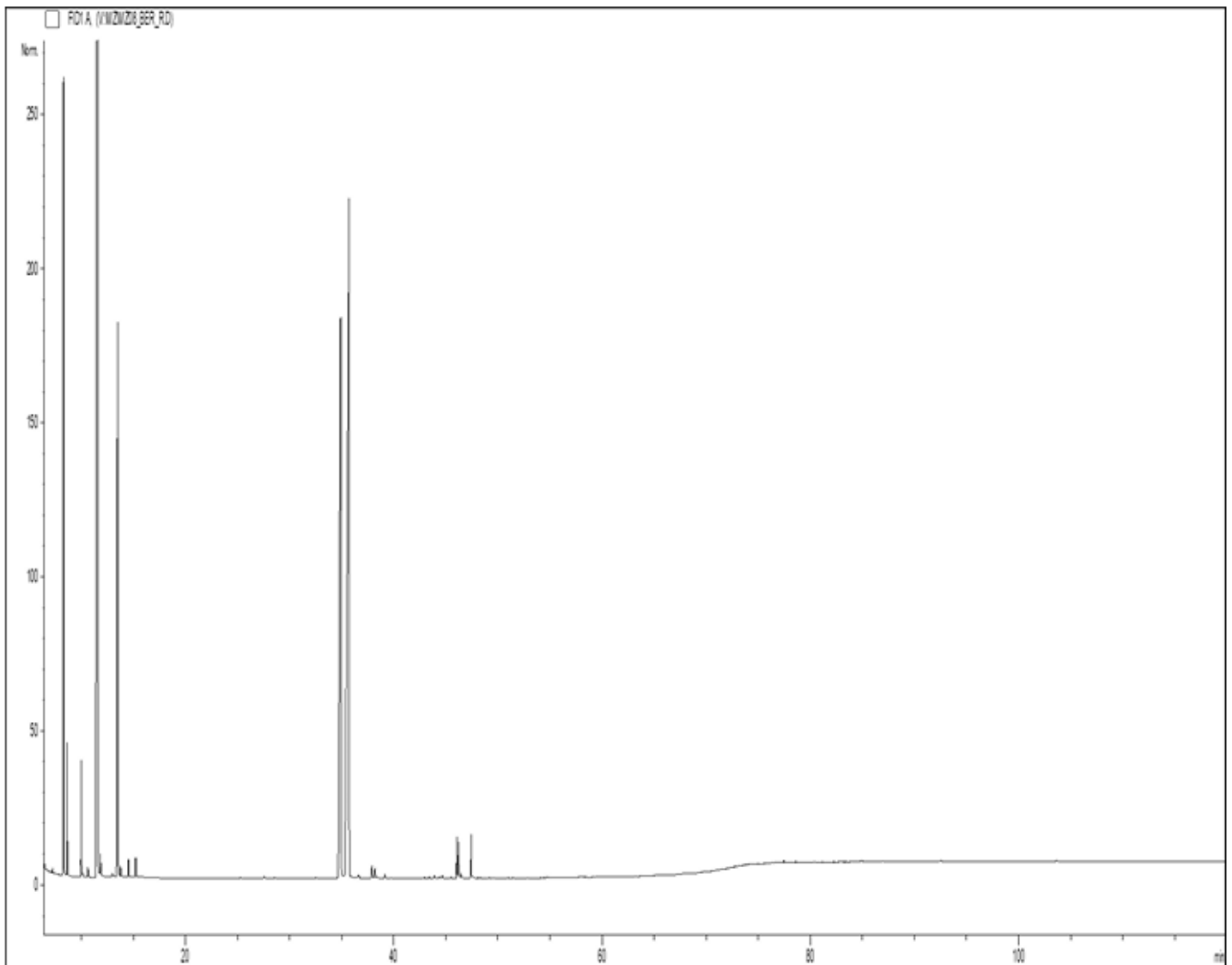
Linalyl Acetate: 22 - 36 % 28.4

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GCMS REPORT Bergamot Essential Oil Italy April 2025



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Peak	RT (min)	Compound name	%
1	6,38	alpha-PINENE	1,05
2	6,43	alpha-THUYENE	0,25
3	7,23	CAMPHENE	0,03
4	8,28	beta-PINENE	6,40
5	8,64	SABINENE	1,04
6	10,01	beta-MYRCENE	0,99
7	10,13	alpha-PHELLANDRENE	0,04
8	10,66	alpha-TERPINENE	0,10
9	11,62	LIMONENE	40,93
10	11,86	beta-PHELLANDRENE	0,18
11		1,8-CINEOLE	
12	12,99	cis-beta-OCIMENE	0,04
13	13,51	gamma-TERPINENE	6,12
14	13,78	trans-beta-OCIMENE	0,11
15	14,55	p-CYMENE	0,19
16	15,24	TERPINOLENE	0,22
17	25,33	LINALOOL cis-OXIDE	0,02
18	27,59	LINALOOL trans-OXIDE	0,03
19	28,59	OCTYL ACETATE	0,02
20	32,55	E-SOLANONE	0,02
21	34,92	LINALOOL	14,47
22	35,73	LINALYL ACETATE	25,59
23	36,62	LINALOOL cis-OXIDE ACETATE	0,05
24	37,89	alpha-trans-BERGAMOTENE	0,21
25	38,19	beta-CARYOPHYLLENE	0,18
26	39,14	LINALOOL trans-OXIDE ACETATE	0,06
27	43,39	E-beta-FARNESENE	0,02
28	43,90	NERAL	0,05
29		SESQUITERPENE	
30	44,39	TERPENYL ACETATE	0,03

Peak	RT (min)	Compound name	%
31	44,65	alpha-TERPINEOL	0,03
32	45,44	SESQUITERPENE	0,02
33	46,06	NERYL ACETATE	0,40
34	46,21	beta-BISABOLENE	0,46
35	46,46	GERANIAL	0,07
36	47,42	GERANYL ACETATE	0,44
37	57,76	SPATHULENOL	0,02
38	67,74	SESQUITERPENIC COMPOUND	0,01
39	92,48	LIMETTINE	0,03
40	103,64	BERGAPTENE	0,02
		TOTAL	99,92

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