



CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Clove Bud - Organic
LATIN NAME	<i>Eugenia caryophyllata</i>
COUNTRY OF ORIGIN	Madagascar
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Fruits
USE	Aromatherapy, Natural Perfumery

SKU	238
LOT #	27
MANUFACTURING DATE	November 2024
BEST BY DATE	November 2027

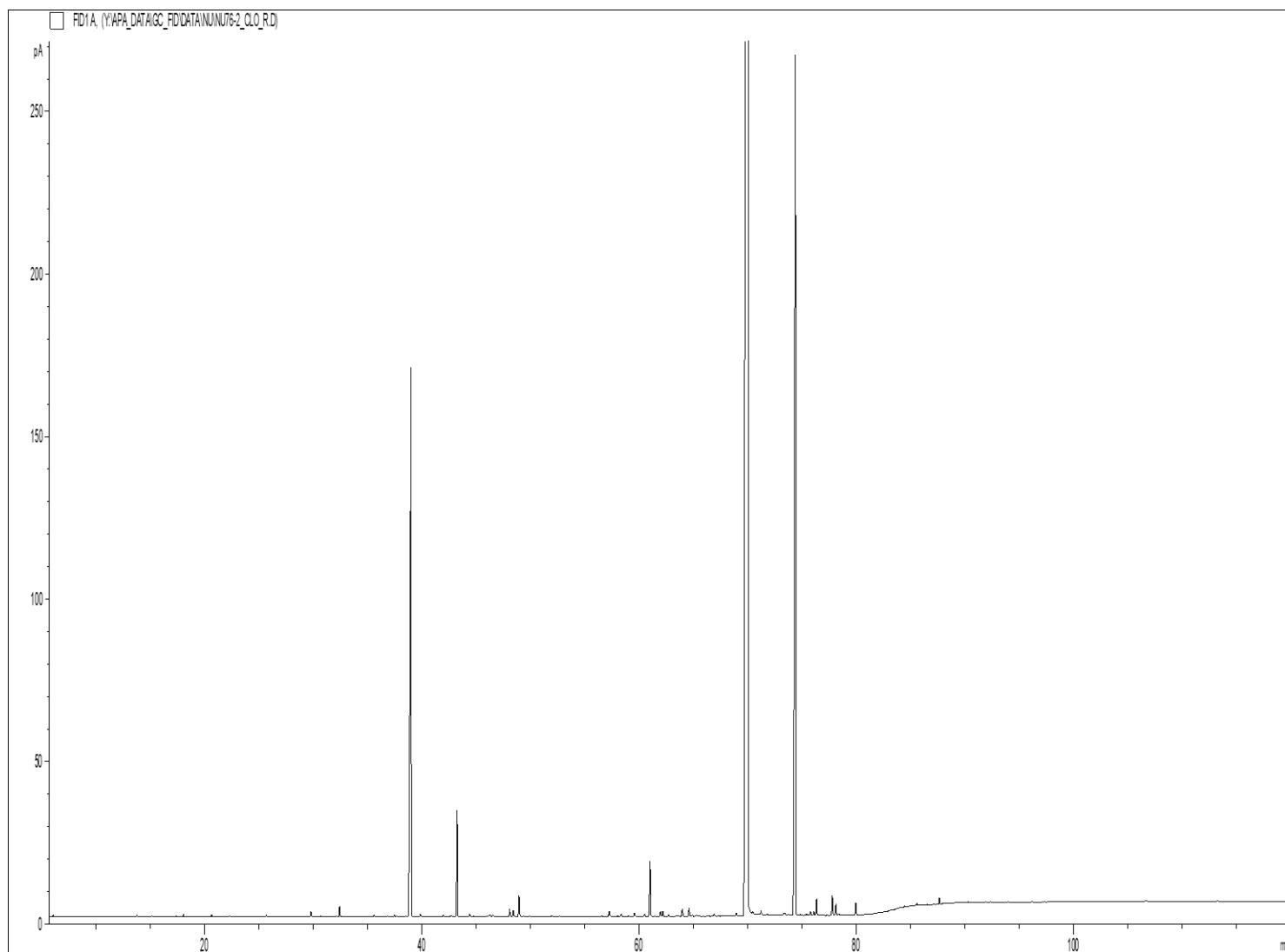
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	1.042 – 1.063	na
REFRACTIVE INDEX	1.528 – 1.538	1.5161
OPTICAL ROTATION	na	na

PHYSICAL APPEARANCE	Transparent liquid	Conforms
COLOR	Pale yellow to amber	Conforms
ODOR	Spicy, warm, sweet	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	Eugenol, Beta-caryophyllene, Eugenyl acetate
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GCMS ANALYSIS

CHROMATOGRAPHIC PROFILE:



- ORGANIC CLOVE BUD EO - SKU 238 LOT 27 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
1	5.11	ISOVALERALDEHYDE	0.02		
2	13.79	2-HEPTANONE	0.01		
3	18.08	2-HEPTANOL, ACETATE	0.01		
4	20.69	1,3,7-NONATRIENE, 4,8-DIMETHYL-	0.01		
5	25.72	2-DECANONE	0.01		
6	29.82	FURFURAL	0.04		
7	32.46	alpha-COPAENE	0.07		
8	35.62	LINALOOL	0.01		0.01
9	37.51	ISOCARYOPHYLLENE	0.01		
10	39.04	beta-CARYOPHYLLENE	6.43		6.43
11	39.89	AROMADENDRENE	0.02		
12	42.02	ALLO-AROMADENDRENE	0.01		
13	43.27	alpha-HUMULENE	0.77		
14	44.43	gamma-MUUROLENE	0.02		
15	46.29	BENZYL ACETATE	0.03		
16	46.55	SESQUITERPENE	0.02		
17	48.11	SESQUITERPENE	0.05		
18	48.44	delta-CADINENE	0.05		
19	48.97	METHYL SALICYLATE	0.17		0.17
20	57.29	COMPOUND Mw=164	0.05		
21	58.39	SESQUITERPENIC OXIDE	0.02		
22	59.61	ALIPHATIC ESTER	0.03		
23	60.55	ISOCARYOPHYLLENE OXIDE	0.02		
24	61.04	CARYOPHYLLENE OXIDE	0.45		
25	62.00	SESQUITERPENIC OXIDE	0.04		
26	62.22	METHYLEUGENOL	0.04		
27	64.00	EPOXY-6,7-HUMULENE	0.08		
28	64.63	CARYOPHYLLENOL	0.07		
29	66.93	SESQUITERPENIC OXIDE	0.02		
30	68.98	SESQUITERPENOL	0.03		
31	70.06	EUGENOL	81.21		81.21
32	71.26	alpha-MUUROLOL	0.03		
33	73.38	alpha-CADINOL	0.03		
34	74.42	EUGENYL ACETATE	9.40		9.40
35	75.46	SESQUITERPENIC OXIDE	0.01		
36	75.81	SESQUITERPENIC COMPOUND	0.03		
37	76.11	CARYOPHYLLADIENOL ISOMER	0.03		
38	76.37	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0.13		
39	77.81	CHAVICOL	0.16		
40	78.15	AROMADENDRENE EPOXIDE	0.09		
41	78.43	ISOEUGENOL	0.02		0.02
42	79.97	SESQUITERPENIC OXIDE	0.10		
43	85.60	VANILLIN	0.02		0.02

- ORGANIC CLOVE BUD EO - SKU 238 LOT 27 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
44	87.67	BENZYL BENZOATE	0.04		0.04
45	106.67	CONIFERALDEHYDE	0.02		
46	113.23	CONIFEROL	0.01		
		TOTAL	99.95		97.30

This Essential Oil is a 100% pure and natural product. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to Eden Botanicals. This product is guaranteed by Eden Botanicals to be of excellent quality.

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