



## CERTIFICATE of ANALYSIS (COA)

|                    |                                              |
|--------------------|----------------------------------------------|
| COMMON NAME        | Bergamot FCF - Organic                       |
| LATIN NAME         | <i>Citrus aurantium</i> var. <i>bergamia</i> |
| COUNTRY OF ORIGIN  | Italy                                        |
| CULTIVATION METHOD | Certified Organic (USDA, NOP)                |
| TYPE               | Essential Oil                                |
| EXTRACTION METHOD  | Cold Pressed and Vacuum Distilled            |
| PLANT PART         | Peels                                        |
| USE                | Aromatherapy, Natural Perfumery              |

|                    |              |
|--------------------|--------------|
| SKU                | 130          |
| LOT #              | 19           |
| MANUFACTURING DATE | January 2025 |
| BEST BY DATE       | January 2027 |

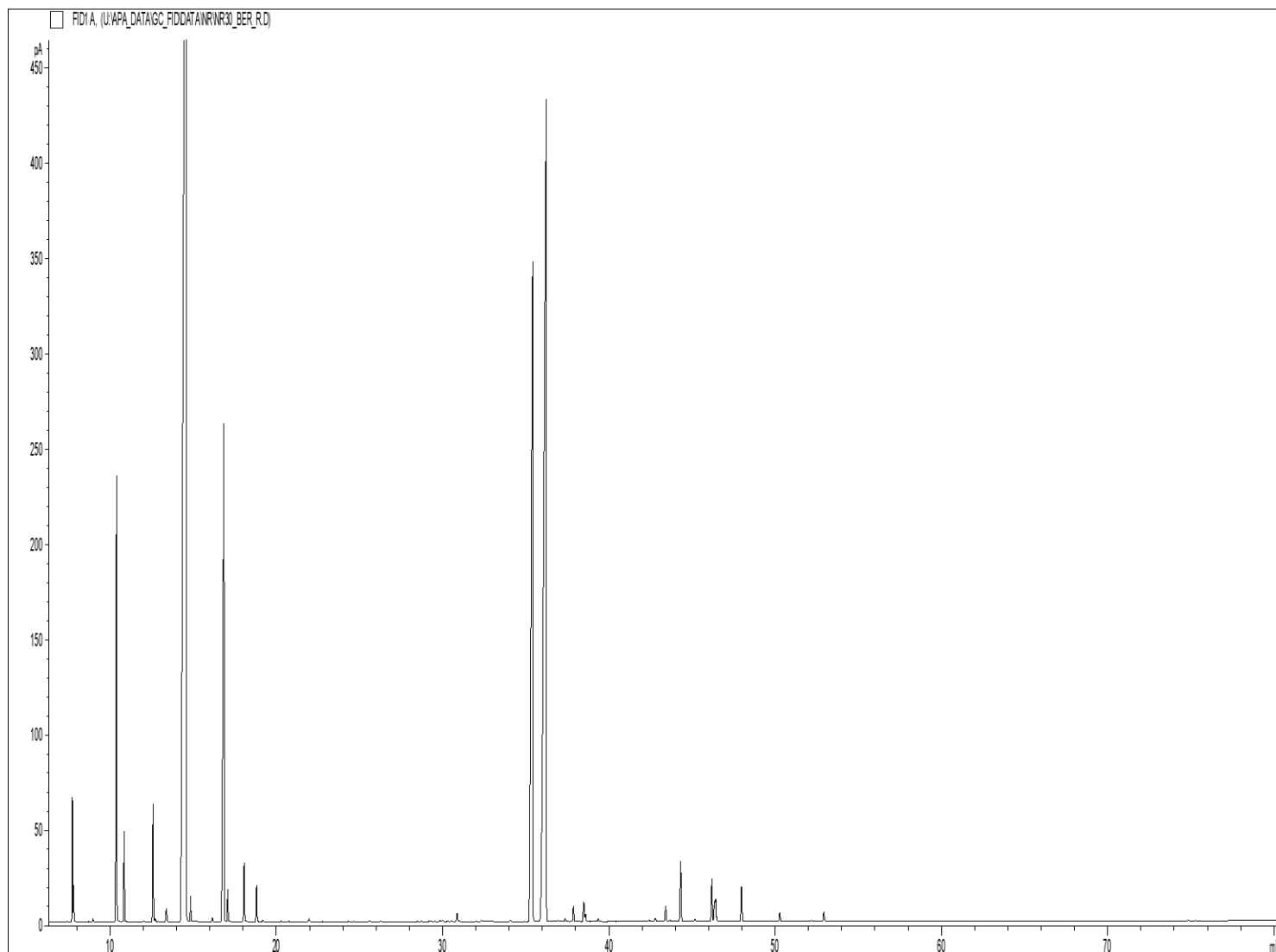
|                        |                        |        |
|------------------------|------------------------|--------|
|                        | SPECIFICATIONS (Range) |        |
| SPECIFIC GRAVITY @20°C | 0.86 – 0.89            | na     |
| REFRACTIVE INDEX @20°C | 1.45 – 1.47            | 1.4651 |
| OPTICAL ROTATION @20°C | +8° to +38°            | na     |

|                          |                                                       |          |
|--------------------------|-------------------------------------------------------|----------|
| PHYSICAL APPEARANCE      | Transparent liquid                                    | Conforms |
| COLOR                    | Colorless to pale yellowish-green                     | Conforms |
| ODOR                     | Fresh, sweet citrus aroma                             | Conforms |
| SOLUBILITY               | Soluble in alcohol and fixed oils                     |          |
| SPECIAL USE INSTRUCTIONS | Dilute before use. Refrigerate to preserve freshness. |          |

|                      |                                                   |
|----------------------|---------------------------------------------------|
| PRIMARY CONSTITUENTS | Limonene, Linalyl acetate, Linalool, Beta-Pinene. |
|----------------------|---------------------------------------------------|

## GCMS ANALYSIS

CHROMATOGRAPHIC PROFILE:



- ORGANIC BERGAMOT FCF EO - SKU 130 LOT 19 -

| Peaks | RT (min) | Compound name                   | %            | Standard (%) | Allergens (%) |
|-------|----------|---------------------------------|--------------|--------------|---------------|
| 1     | 7.74     | alpha-PINENE                    | 0.85         |              | 0.85          |
| 2     | 7.81     | alpha-THUYENE                   | 0.24         |              |               |
| 3     | 8.96     | CAMPHENE                        | 0.02         |              |               |
| 4     | 10.39    | <b>beta-PINENE</b>              | <b>4.05</b>  |              | 4.05          |
| 5     | 10.85    | SABINENE                        | 0.74         |              |               |
| 6     | 12.59    | beta-MYRCENE                    | 1.13         |              |               |
| 7     | 12.71    | alpha-PHELLANDRENE              | 0.03         |              |               |
| 8     | 13.39    | alpha-TERPINENE                 | 0.15         |              | 0.15          |
| 9     | 14.59    | <b>LIMONENE</b>                 | <b>46.19</b> |              | 46.19         |
| 10    | 14.84    | beta-PHELLANDRENE               | 0.20         |              |               |
| 11    |          | 1,8-CINEOLE                     |              |              |               |
| 12    | 16.15    | cis-beta-OCIMENE                | 0.04         |              |               |
| 13    | 16.85    | <b>gamma-TERPINENE</b>          | <b>7.10</b>  |              |               |
| 14    | 17.08    | trans-beta-OCIMENE              | 0.29         |              |               |
| 15    | 18.06    | p-CYMENE                        | 0.55         |              |               |
| 16    | 18.81    | TERPINOLENE                     | 0.35         |              | 0.35          |
| 17    | 19.17    | OCTANAL                         | 0.01         |              |               |
| 18    | 20.32    | 1,3,7-NONATRIENE, 4,8-DIMETHYL- | 0.01         |              |               |
| 19    | 21.97    | 5-HEPTEN-2-ONE, 6-METHYL-       | 0.03         |              |               |
| 20    | 25.61    | NONANAL                         | 0.02         |              |               |
| 21    | 28.71    | LIMONENE cis-1,2-EPOXIDE        | 0.01         |              |               |
| 22    | 29.83    | 5-HEPTEN-2-OL, 6-METHYL-        | 0.01         |              |               |
| 23    | 29.99    | trans-THUYANOL                  | 0.02         |              |               |
| 24    | 30.57    | delta-ELEMENE                   | 0.01         |              |               |
| 25    | 30.87    | OCTYL ACETATE                   | 0.10         |              |               |
| 26    | 32.33    | DECANAL                         | 0.02         |              |               |
| 27    | 34.09    | E-SOLANONE                      | 0.02         |              |               |
| 28    | 35.42    | <b>LINALOOL</b>                 | <b>12.67</b> |              | 12.67         |
| 29    | 36.23    | <b>LINALYL ACETATE</b>          | <b>21.75</b> |              | 21.75         |
| 30    | 36.94    | alpha-cis-BERGAMOTENE           | 0.01         |              |               |
| 31    | 37.38    | BORNYL ACETATE                  | 0.04         |              |               |
| 32    | 37.87    | alpha-trans-BERGAMOTENE         | 0.18         |              |               |
| 33    | 38.49    | beta-CARYOPHYLLENE              | 0.23         |              | 0.23          |
| 34    | 38.59    | TERPINENE-4-OL                  | 0.09         |              |               |
| 35    | 39.37    | LINALYL PROPIONATE              | 0.03         |              |               |
| 36    | 39.48    | SESQUITERPENE                   | 0.01         |              |               |
| 37    | 40.11    | cis-p-MENTHA-2,8-DIEN-1-OL      | 0.01         |              |               |
| 38    | 41.67    | beta-SANTALENE                  | 0.02         |              |               |
| 39    | 42.20    | 2-DECENAL                       | 0.02         |              |               |
| 40    | 42.43    | CITRONELLYL ACETATE             | 0.03         |              |               |
| 41    | 42.65    | trans-p-MENTHA-2,8-DIEN-1-OL    | 0.01         |              |               |
| 42    | 42.80    | alpha-HUMULENE                  | 0.06         |              |               |
| 43    | 43.41    | NERAL                           | 0.20         |              | 0.20          |

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|-------|----------|------------------------|---------------|--------------|---------------|
| 44    | 43.67    | DECYL ACETATE          | 0.02          |              |               |
| 45    | 43.76    | Z-beta-FARNESENE       | 0.01          |              |               |
| 46    | 44.32    | TERPENYL ACETATE       | 0.12          |              |               |
| 47    | 44.38    | alpha-TERPINEOL        | 0.61          |              | 0.61          |
| 48    | 45.19    | GERMACRENE D           | 0.03          |              |               |
| 49    | 46.20    | NERYL ACETATE          | 0.50          |              |               |
| 50    | 46.37    | <b>beta-BISABOLENE</b> | <b>0.22</b>   |              |               |
| 51    | 46.43    | <b>GERANIAL</b>        | <b>0.27</b>   |              | 0.27          |
| 52    | 46.61    | BICYCLOGERMACRENE      | 0.01          |              |               |
| 53    | 47.98    | GERANYL ACETATE        | 0.42          |              | 0.42          |
| 54    | 48.29    | 1-DECANOL              | 0.01          |              |               |
| 55    | 48.41    | CITRONELLOL            | 0.01          |              | 0.01          |
| 56    | 50.29    | NEROL                  | 0.11          |              |               |
| 57    | 52.19    | cis-CARVEOL            | 0.02          |              |               |
| 58    | 52.93    | GERANIOL               | 0.12          |              | 0.12          |
|       |          | <b>TOTAL</b>           | <b>100.00</b> |              | <b>87.86</b>  |

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.

Eden Botanicals

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