



## 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 #              | 18          |
| MANUFACTURING DATE | August 2024 |
| BEST BY DATE       | August 2026 |

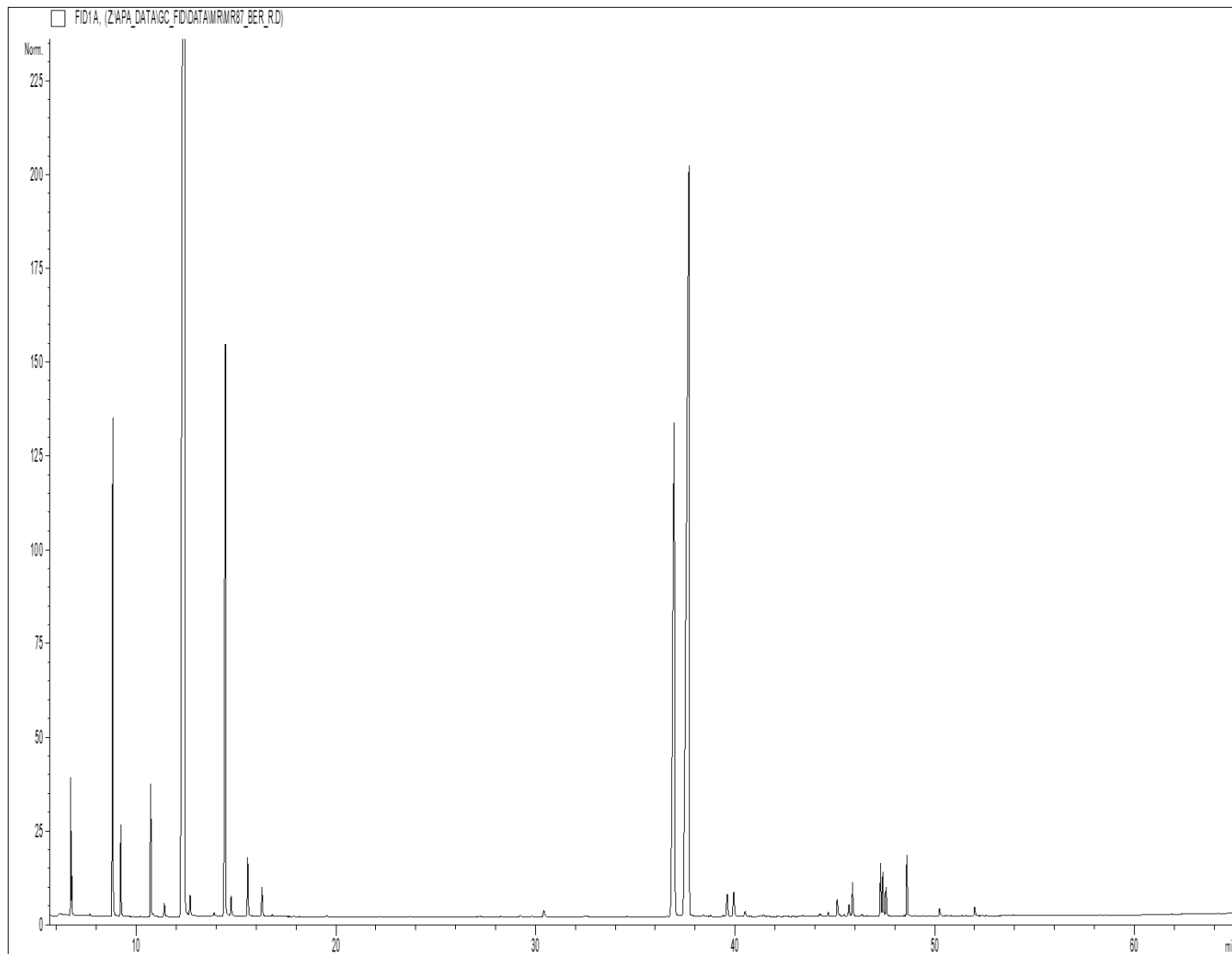
|                        |                        |        |
|------------------------|------------------------|--------|
|                        | SPECIFICATIONS (Range) |        |
| SPECIFIC GRAVITY @20°C | 0.86 – 0.89            | na     |
| REFRACTIVE INDEX @20°C | 1.45 – 1.47            | 1.4646 |
| 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. |
|----------------------|---------------------------------------------------|

## THIRD PARTY LAB ANALYSIS (GCMS)

### CHROMATOGRAPHIC PROFILE:



- ORGANIC BERGAMOT FCF EO - SKU 130 LOT 18 -

| Peaks | RT (min) | Compound name             | %            | Standard (%) | Allergens (%) |
|-------|----------|---------------------------|--------------|--------------|---------------|
| 1     | 6,71     | alpha-PINENE              | 0,83         |              | 0,83          |
| 2     | 6,77     | alpha-THUYENE             | 0,24         |              |               |
| 3     | 7,67     | CAMPHERE                  | 0,02         |              |               |
| 4     | 8,82     | <b>beta-PINENE</b>        | <b>3,93</b>  |              | 3,93          |
| 5     | 9,22     | SABINENE                  | 0,74         |              |               |
| 6     | 10,73    | beta-MYRCENE              | 1,14         |              |               |
| 7     | 10,84    | alpha-PHELLANDRENE        | 0,03         |              |               |
| 8     | 11,42    | alpha-TERPINENE           | 0,14         |              | 0,14          |
| 9     | 12,44    | <b>LIMONENE</b>           | <b>49,56</b> |              | 49,56         |
| 10    | 12,70    | beta-PHELLANDRENE         | 0,26         |              |               |
| 11    |          | 1,8-CINEOLE               |              |              |               |
| 12    | 13,91    | cis-beta-OCIMENE          | 0,05         |              |               |
| 13    | 14,47    | <b>gamma-TERPINENE</b>    | <b>6,45</b>  |              |               |
| 14    | 14,76    | trans-beta-OCIMENE        | 0,21         |              |               |
| 15    | 15,59    | p-CYMENE                  | 0,63         |              |               |
| 16    | 16,30    | TERPINOLENE               | 0,32         |              | 0,32          |
| 17    | 16,80    | OCTANAL                   | 0,03         |              |               |
| 18    | 19,53    | 5-HEPTEN-2-ONE, 6-METHYL- | 0,02         |              |               |
| 19    | 27,21    | ALIPHATIC ESTER           | 0,02         |              |               |
| 20    | 29,22    | trans-THUYANOL            | 0,02         |              |               |
| 21    | 30,41    | OCTYL ACETATE             | 0,10         |              |               |
| 22    | 36,94    | <b>LINALOOL</b>           | <b>10,07</b> |              | 10,07         |
| 23    | 37,69    | <b>LINALYL ACETATE</b>    | <b>21,33</b> |              | 21,33         |
| 24    | 38,40    | alpha-cis-BERGAMOTENE     | 0,02         |              |               |
| 25    | 38,76    | BORNYL ACETATE            | 0,02         |              |               |
| 26    | 39,39    | NONYLE ACETATE            | 0,02         |              |               |
| 27    | 39,60    | alpha-trans-BERGAMOTENE   | 0,32         |              |               |
| 28    | 39,93    | beta-CARYOPHYLLENE        | 0,38         |              | 0,38          |
| 29    | 40,50    | TERPINENE-4-OL            | 0,08         |              |               |
| 30    | 41,30    | epi-beta-SANTALENE        | 0,01         |              |               |
| 31    | 41,43    | LINALYL PROPIONATE        | 0,02         |              |               |
| 32    | 43,37    | beta-SANTALENE            | 0,02         |              |               |
| 33    | 44,23    | alpha-HUMULENE            | 0,03         |              |               |
| 34    | 44,29    | CITRONELLYL ACETATE       | 0,02         |              |               |
| 35    | 44,67    | E-beta-FARNESENE          | 0,04         |              |               |
| 36    | 45,11    | NERAL                     | 0,24         |              | 0,24          |
| 37    | 45,45    | Z-beta-FARNESENE          | 0,02         |              |               |
| 38    | 45,70    | TERPENYL ACETATE          | 0,15         |              |               |
| 39    | 45,88    | alpha-TERPINEOL           | 0,37         |              | 0,37          |
| 40    | 46,35    | GERMACRENE D              | 0,03         |              |               |

|    |       |                        |               |  |              |
|----|-------|------------------------|---------------|--|--------------|
| 41 | 47,28 | NERYL ACETATE          | 0,50          |  |              |
| 42 | 47,40 | <b>beta-BISABOLENE</b> | <b>0,49</b>   |  |              |
| 43 | 47,56 | <b>GERANIAL</b>        | <b>0,34</b>   |  | 0,34         |
| 44 | 48,60 | GERANYL ACETATE        | 0,58          |  | 0,58         |
| 45 | 50,24 | NEROL                  | 0,09          |  |              |
| 46 | 52,00 | GERANIOL               | 0,10          |  | 0,10         |
| 47 | 53,94 | COMPOUND Mw=152        | 0,01          |  |              |
|    |       | <b>TOTAL</b>           | <b>100,00</b> |  | <b>88,17</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

[www.edenbotanicals.com](http://www.edenbotanicals.com)

info@edenbotanicals.com

T: 1-707-509-0041 / F: 1-707-949-2526

Document created: 05.01.18

Document updated: 12.02.24