



## CERTIFICATE of ANALYSIS (COA)

Bergamot FCF - Organic (SKU 130 lot 13)

|                    |                                       |
|--------------------|---------------------------------------|
| LATIN NAME         | <i>Citrus aurantium var. 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       |

|              |                  |
|--------------|------------------|
| ANALYZED     | January 12, 2021 |
| MANUFACTURED | January 1, 2020  |
| RETEST       | June 1, 2022     |

|                        |       |
|------------------------|-------|
| SPECIFIC GRAVITY @ 20C | 0,87  |
| REFRACTIVE INDEX @ 20C | 1,46  |
| OPTICAL ROTATION @ 20C | 35,60 |

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

|          |  |
|----------|--|
| COMMENTS |  |
|----------|--|

| COMPONENT               | Actual % | CAS        |
|-------------------------|----------|------------|
| Limonene <sup>2</sup>   | 33,25%   | 138-86-3   |
| Linalyl acetate         | 24,54%   | 115-95-7   |
| Linalool <sup>2</sup>   | 12,03%   | 78-70-6    |
| gamma-Terpinene         | 10,92%   | 99-85-4    |
| beta-Pinene             | 7,18%    | 127-91-3   |
| alpha-Pinene            | 1,85%    | 80-56-8    |
| Sabinene                | 1,48%    | 3387-41-5  |
| Myrcene <sup>1</sup>    | 1,43%    | 123-35-3   |
| beta-Phellandrene       | 1,41%    | 555-10-2   |
| alpha-Thujene           | 0,50%    | 2867-05-2  |
| Neryl acetate           | 0,50%    | 141-12-8   |
| Terpinolene             | 0,50%    | 586-62-9   |
| alpha-trans-Bergamotene | 0,49%    | 13474-59-4 |
| Caryophyllene(E-)       | 0,45%    | 13877-93-5 |
| Geranial <sup>2</sup>   | 0,44%    | 141-27-5   |
| beta-Bisabolene         | 0,43%    | 495-61-4   |
| Geranyl acetate         | 0,41%    | 105-87-3   |

|                                                                    |       |            |
|--------------------------------------------------------------------|-------|------------|
| para-Cymene                                                        | 0,37% | 99-87-6    |
| alpha-Terpinene                                                    | 0,26% | 99-86-5    |
| (E)-, beta-Ocimene                                                 | 0,26% | 3779-61-1  |
| Neral <sup>2</sup>                                                 | 0,23% | 106-26-3   |
| alpha-Terpinyl acetate                                             | 0,18% | 80-26-2    |
| alpha-Terpineol                                                    | 0,15% | 98-55-5    |
| octyl-Acetate                                                      | 0,14% | 112-14-1   |
| n-Octanal                                                          | 0,06% | 124-13-0   |
| cis-(IPP vs OH)Sabinene hydrate                                    | 0,05% | 15537-55-0 |
| n-Decanal                                                          | 0,05% | 112-31-2   |
| alpha-Phellandrene                                                 | 0,04% | 99-83-2    |
| Terpinen-4-ol                                                      | 0,04% | 562-74-3   |
| trans-(Ac vs. IPP)Sabinene hydrate acetate                         | 0,04% | 77318-47-9 |
| Camphene                                                           | 0,04% | 79-92-5    |
| Nerol                                                              | 0,04% | 106-25-2   |
| Germacrene D                                                       | 0,03% | 23986-74-5 |
| n-Nonanal                                                          | 0,02% | 124-19-6   |
| Isobornyl acetate                                                  | 0,02% | 125-12-2   |
| Linalyl propionate                                                 | 0,02% | 144-39-8   |
| alpha-Humulene                                                     | 0,01% | 6753-98-6  |
| (Z)-beta-Ocimene                                                   | 0,01% | 3338-55-4  |
| (Z)-, alpha-Bisabolene                                             | 0,01% | 29837-07-8 |
| (E)-, beta-Farnesene                                               | 0,01% | 18794-84-8 |
| alpha-, cis-Bergamotene                                            | 0,01% | 18252-46-5 |
| Decyl acetate                                                      | 0,01% | 112-17-4   |
| Bornyl acetate                                                     | 0,01% | 76-49-3    |
| Nonyl acetate                                                      | 0,01% | 143-13-5   |
| 6-methyl-Hept-5-en-2-one                                           | 0,01% | 110-93-0   |
| Bicyclogermacrene                                                  | 0,01% | 67650-90-2 |
| Citronellyl acetate                                                | 0,01% | 150-84-5   |
| Citronellal                                                        | 0,00% | 106-23-0   |
| Total Deleted Low Purity Peaks                                     | 0,00% |            |
| Not Identified Peaks                                               | 0,03% |            |
| <sup>1</sup> = Proposition 65 compound, <sup>2</sup> = EU Allergen |       |            |

### MS Results for SKU 130 lot 13

