

## Identification

Nom INCI/CTFA :  
Melissa officinalis (Lemon Balm) flower oil  
Nom latin :  
Melissa officinalis

N° CAS : 84082-61-1  
N° EINECS : 282-007-0

## Caractéristiques générales

Famille botanique : Lamiacées  
Obtention du produit : Distillation à la vapeur d'eau des sommités fleuries  
Molécules principales : Citronellal, géraniol, néral  
Allergènes : Citral, géraniol, citronellol, linalol, limonène  
Durée de conservation : Ne contient aucun conservateur, se conserve en l'état pendant 5 ans à l'abri de la lumière, de l'air et de la chaleur.

## Caractéristiques du lot

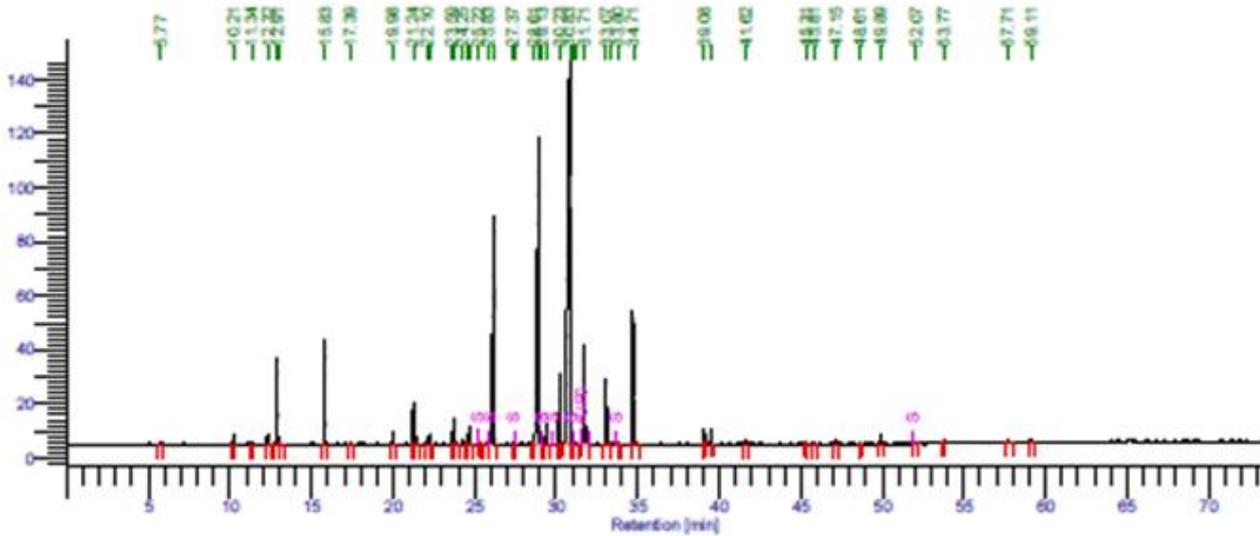
Qualité : Biologique (certifiée par Ecocert SAS F32600)  
Texture / Couleur / Odeur : Liquide limpide / jaune Brun/ caractéristique  
Indice de réfraction (20°C) : 1,4878  
Densité (20°C) : 0,896

## Conditions d'analyse chromatographique

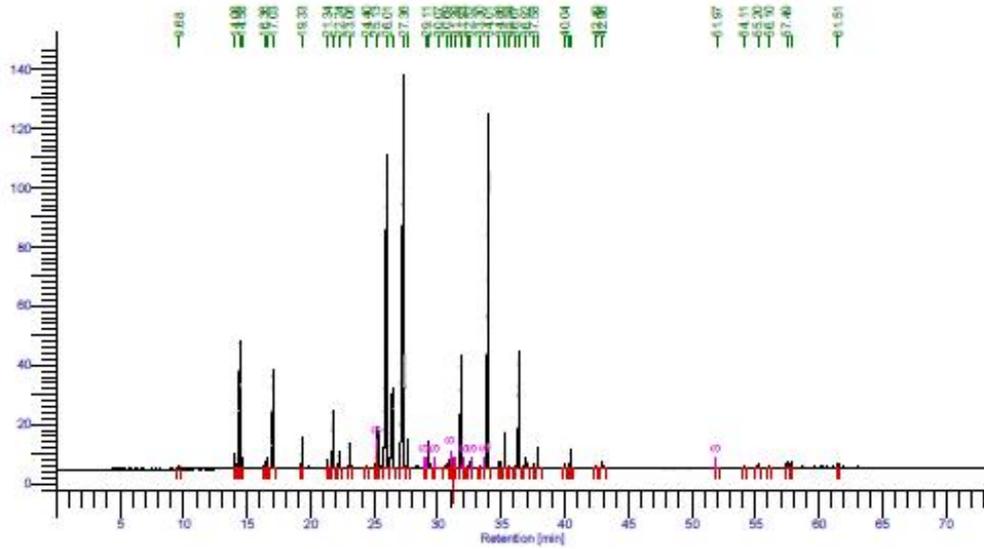
Appareillage : GC 6890 MS 5975  
Gamme de masse : 40-450 uma  
Colonne : HP5ms / 30 m / 0,25 mm / 0,25 µm  
Injection split : 1 µL - ratio 1/200

Gaz vecteur : Hélium / Débit : 1 mL/min  
Four : 2°/min, 60-250°C pendant 5 min  
Durée d'acquisition : 100 min

## Profil chromatographique



| Pics ordre | Molécules Noms     | Rétention [min] | Aires [uV*sec] | Aires [%] | Pics ordre | Molécules Noms     | Rétention [min] | Aires [uV*sec] | Aires [%] |
|------------|--------------------|-----------------|----------------|-----------|------------|--------------------|-----------------|----------------|-----------|
| 1          |                    | 5.771           | 3583.51        | 0.09      | 31         |                    | 31.149          | 3079.05        | 0.07      |
| 2          |                    | 10.213          | 9030.46        | 0.22      | 32         | ACETATE DE GERANYL | 31.709          | 18184.30       | 4.43      |
| 3          |                    | 11.337          | 2872.67        | 0.07      | 33         |                    | 33.066          | 91717.70       | 2.23      |
| 4          |                    | 12.318          | 9417.27        | 0.23      | 36         | GERANIOL           | 34.712          | 202212.19      | 4.92      |
| 5          | CIS BETA OCIMENE   | 12.911          | 95675.84       | 2.33      | 37         |                    | 39.082          | 16805.81       | 0.41      |
| 6          |                    | 13.022          | 8267.54        | 0.20      | 38         |                    | 39.519          | 21203.06       | 0.52      |
| 7          | METHYLHEPTENONE    | 15.828          | 128121.50      | 3.12      | 39         |                    | 41.620          | 6572.19        | 0.16      |
| 9          |                    | 19.979          | 14770.30       | 0.36      | 40         |                    | 45.312          | 3177.59        | 0.08      |
| 10         |                    | 21.238          | 50241.03       | 1.22      | 41         |                    | 45.814          | 3558.77        | 0.09      |
| 11         |                    | 21.387          | 10384.17       | 0.25      | 42         |                    | 47.152          | 7104.09        | 0.17      |
| 12         |                    | 22.096          | 10553.91       | 0.26      | 44         |                    | 49.888          | 10968.38       | 0.27      |
| 13         |                    | 22.304          | 13581.89       | 0.33      | 46         |                    | 53.774          | 4380.18        | 0.11      |
| 14         |                    | 23.590          | 15645.76       | 0.38      | 47         |                    | 57.706          | 4393.10        | 0.11      |
| 15         |                    | 23.752          | 36537.56       | 0.89      | 48         |                    | 59.108          | 4750.64        | 0.12      |
| 16         |                    | 24.247          | 5333.84        | 0.13      |            |                    |                 |                |           |
| 17         |                    | 24.525          | 12155.71       | 0.30      |            |                    | 1171.442        | 4108216.49     | 100.00    |
| 18         |                    | 24.665          | 25630.56       | 0.62      |            |                    |                 |                |           |
| 19         |                    | 25.217          | 2597.31        | 0.06      |            |                    |                 |                |           |
| 20         |                    | 25.827          | 8750.96        | 0.21      |            |                    |                 |                |           |
| 21         | BETA CARYOPHYLLENE | 26.226          | 697324.68      | 16.97     |            |                    |                 |                |           |
| 22         |                    | 27.367          | 3350.65        | 0.08      |            |                    |                 |                |           |
| 24         |                    | 28.614          | 7830.83        | 0.19      |            |                    |                 |                |           |
| 25         | NERAL              | 28.950          | 880244.73      | 21.43     |            |                    |                 |                |           |
| 27         |                    | 29.387          | 30548.35       | 0.74      |            |                    |                 |                |           |
| 28         | D GERMACRENE       | 30.231          | 138922.30      | 3.38      |            |                    |                 |                |           |
| 29         | GERANIAL           | 30.830          | 1325056.12     | 32.25     |            |                    |                 |                |           |



| Pics ordre | Molécules Noms   | Rétention [min] | Aires [UV*sec] | Aires [%] | Pics ordre | Molécules Noms      | Rétention [min] | Aires [UV*sec] | Aires [%] |
|------------|------------------|-----------------|----------------|-----------|------------|---------------------|-----------------|----------------|-----------|
| 1          |                  | 9.681           | 2644.58        | 0.06      | 14         |                     | 25.129          | 11201.03       | 0.26      |
| 2          |                  | 14.056          | 15078.28       | 0.35      | 15         | CITRONNELOL         | 25.276          | 97560.49       | 2.26      |
| 3          | METHYLHEPTENONE  | 14.430          | 140974.37      | 3.27      | 16         | NERAL               | 26.010          | 868413.37      | 20.11     |
| 4          |                  | 14.583          | 9338.73        | 0.22      | 17         | GERANIOL            | 26.444          | 225081.38      | 5.21      |
| 5          |                  | 16.368          | 2881.83        | 0.07      | 18         | GERANIAL            | 27.361          | 1335347.88     | 30.93     |
| 6          |                  | 16.533          | 9755.24        | 0.23      | 19         |                     | 27.642          | 31651.60       | 0.73      |
| 7          | CIS BETA OCIMENE | 17.034          | 97628.03       | 2.26      | 21         |                     | 29.316          | 29664.12       | 0.69      |
| 8          |                  | 19.332          | 31273.00       | 0.72      | 23         |                     | 30.691          | 11313.19       | 0.26      |
| 9          |                  | 21.340          | 11860.64       | 0.27      | 24         |                     | 30.978          | 6420.51        | 0.15      |
| 10         | CITRONNELLAL     | 21.766          | 75746.72       | 1.75      | 25         |                     | 31.008          | 2528.32        | 0.06      |
| 11         |                  | 22.243          | 19185.19       | 0.44      | 27         | ACETATE DE GERANYL  | 31.843          | 152673.80      | 3.54      |
| 12         |                  | 23.057          | 34408.38       | 0.80      | 28         |                     | 31.931          | 10179.26       | 0.24      |
| 13         |                  | 24.401          | 3357.86        | 0.08      | 29         |                     | 32.372          | 3157.30        | 0.07      |
|            |                  |                 |                |           | 30         |                     | 32.519          | 11184.93       | 0.26      |
|            |                  |                 |                |           | 31         |                     | 33.304          | 3316.28        | 0.08      |
|            |                  |                 |                |           | 32         | BETA CARYOPHYLLENE  | 34.012          | 719994.64      | 16.68     |
|            |                  |                 |                |           | 33         |                     | 34.861          | 7611.02        | 0.18      |
|            |                  |                 |                |           | 34         | ALPHA CARYOPHYLLENE | 35.278          | 41014.40       | 0.95      |
|            |                  |                 |                |           | 35         |                     | 35.581          | 3013.56        | 0.07      |
|            |                  |                 |                |           | 36         |                     | 36.068          | 3634.31        | 0.08      |
|            |                  |                 |                |           | 37         | D GERMACRENE        | 36.384          | 157945.08      | 3.66      |
|            |                  |                 |                |           | 38         |                     | 36.922          | 21420.29       | 0.50      |
|            |                  |                 |                |           | 39         |                     | 37.583          | 6342.19        | 0.15      |
|            |                  |                 |                |           | 40         |                     | 37.870          | 23658.91       | 0.55      |
|            |                  |                 |                |           | 41         |                     | 40.036          | 5854.20        | 0.14      |
|            |                  |                 |                |           | 42         |                     | 40.353          | 4900.29        | 0.11      |
|            |                  |                 |                |           | 43         |                     | 40.464          | 21957.00       | 0.51      |
|            |                  |                 |                |           | 44         |                     | 42.486          | 7553.92        | 0.17      |
|            |                  |                 |                |           | 45         |                     | 42.962          | 8944.93        | 0.21      |
|            |                  |                 |                |           | 47         |                     | 54.107          | 2979.20        | 0.07      |
|            |                  |                 |                |           | 48         |                     | 55.198          | 4778.38        | 0.11      |
|            |                  |                 |                |           | 49         |                     | 56.105          | 3614.45        | 0.08      |
|            |                  |                 |                |           | 50         |                     | 57.487          | 8876.07        | 0.21      |
|            |                  |                 |                |           | 51         |                     | 57.793          | 5758.08        | 0.13      |
|            |                  |                 |                |           | 52         |                     | 61.512          | 3706.36        | 0.09      |
|            |                  |                 |                |           |            |                     | 1549.686        | 4317383.61     | 100.00    |

**Conclusion**

**Le présent lot est conforme.**

**Le 12/06/2017,**

**Service Qualité**