

## 1 Identification de l'échantillon / Sample identification

|                                                            |                                                  |
|------------------------------------------------------------|--------------------------------------------------|
| Désignation commerciale<br><i>Trade name</i>               | HE PALMAROSA BIO<br><i>Organic Palmarosa Oil</i> |
| Code article / Article code                                | [MP10064]                                        |
| Type d'extrait<br><i>Type of Extract</i>                   | Huile Essentielle<br><i>Essential Oil</i>        |
| Nom commun<br><i>Common name</i>                           | Palmarosa<br><i>Palmarosa</i>                    |
| Nom botanique<br><i>Botanical name</i>                     | <i>Cymbopogon martinii</i>                       |
| Qualité / Quality                                          | Biologique / Organic                             |
| Partie de la plante<br><i>Part of the plant</i>            | Parties aériennes<br><i>Aerial parts</i>         |
| Origine de la plante<br><i>Origin of the plant</i>         | Népal                                            |
| Producteur / Fournisseur<br><i>Manufacturer / Supplier</i> | LABORATOIRE ALTHO                                |
| N° de Lot / Batch number                                   | INT240315-22                                     |
| Informations / Information                                 | -                                                |
| N° unique d'échantillon<br><i>Sample number</i>            | Données Fournisseur                              |



## 2 Analyse par Chromatographie Phase Gazeuse / GC-MS Analysis

### 2.1 Résultats d'analyse / Results

|                                  | Résultat                                                                 | Normes                                                                                                | Conformité |
|----------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------|
| PRINCIPAUX CONSTITUANTS          | Geraniol: 82.92% Acetae<br>Neryl:10.84%                                  | Geraniol: 80%-90% Acetae<br>Neryl:9-15%                                                               | Conforme   |
| NOM INCI                         | CYMBOPOGON MARTINI OIL                                                   | CYMBOPOGON MARTINI OIL                                                                                | Conforme   |
| Conditions de conservation       | Store products in their original capped containers in a cool, dry place. | Stocker les produits dans leurs bidons d'origine, parfaitement bouchés, dans un endroit sec et frais. | Conforme   |
| Date de distillation/Fabrication | 10/10/2023                                                               |                                                                                                       | Conforme   |
| Odeur                            | Dewy; herbaceous                                                         | Rosée ; herbacée                                                                                      | Conforme   |
| Apparence                        | Liquid                                                                   | Liquide                                                                                               | Conforme   |
| Couleur                          | Pale yellow to yellow                                                    | Jaune pâle à jaune                                                                                    | Conforme   |
| Densité relative (d20/20)        | 0.886                                                                    | [0.870 ; 0.900]                                                                                       | Conforme   |
| Indice de réfraction 20°C        | 1.475                                                                    | [1.465 ; 1.485]                                                                                       | Conforme   |
| POUVOIR ROTATOIRE (°)            | -0.43°                                                                   | [-3° ; +3°]                                                                                           | Conforme   |

**Liste des composants (%GC) :**

|                    | Pourcentage % | N°CAS     |
|--------------------|---------------|-----------|
| Myrcene            | 0.15          | 123-35-3  |
| Limonene           | 0.44          | 5989-27-5 |
| Citral             | 0.38          | 5392-40-5 |
| Farnesol           | 0.09          | 4602-84-0 |
| Nerol              | 0.48          | 106-25-2  |
| Caryophyllene beta | 1.67          | 87-44-5   |
| Trans beta Ocimene | 0.28          | 3779-61-1 |
| Linalool           | 2.14          | 78-70-6   |
| Geranyl acetate    | 10.84         | 105-87-3  |
| Geraniol           | 82.92         | 106-24-1  |

Méthode utilisée : GC-FID APOLAIRE  
Method used: GC-FID non-polar  
Limite de détection: 200ppm  
detection limit : 200ppm

### 3 Rapport pesticides / *Pesticids report*

**RÉCAPITULATIF DES RÉSULTATS**

Aucun des pesticides recherchés n'a été détecté.

**ANALYSE MULTI-RÉSIDUS PESTICIDES PAR GC/MS/MS (méthode interne I-ANA-015) :**

| Pesticide recherché   | Résultat | LQ    | Pesticide recherché | Résultat | LQ    | Pesticide recherché | Résultat | LQ    |
|-----------------------|----------|-------|---------------------|----------|-------|---------------------|----------|-------|
| Alachlor              | ND       | 0.10  | Endosulfan β-       | ND       | 0.050 | Monalide            | ND       | 0.050 |
| Aldrine               | ND       | 0.050 | Endosulfan sulfate  | ND       | 0.010 | Monocrotophos       | ND       | 0.050 |
| Atrazine              | ND       | 0.050 | Endrine             | ND       | 0.050 | Myclobutanil        | ND       | 0.050 |
| Azinphos Ethyl-       | ND       | 0.10  | Ethion              | ND       | 0.050 | Napropamide         | ND       | 0.050 |
| Azinphos Methyl-      | ND       | 0.10  | Ethofumesate        | ND       | 0.10  | Omethoate           | ND       | 0.050 |
| Benalaxyl             | ND       | 0.050 | Ethoprophos         | ND       | 0.050 | o-Phenylphenol      | ND       | 0.050 |
| Bifenthrine           | ND       | 0.050 | Etridiazole         | ND       | 0.050 | Oxadiazon           | ND       | 0.050 |
| Bitertanols           | ND       | 0.050 | Etrimphos           | ND       | 0.010 | Oxadixyl            | ND       | 0.050 |
| Bromophos Ethyl-      | ND       | 0.010 | Fenamiphos          | ND       | 0.050 | Penconazole         | ND       | 0.010 |
| Bromophos Methyl-     | ND       | 0.010 | Fenarimol           | ND       | 0.050 | Pentachloroaniline  | ND       | 0.050 |
| Bromopropylate        | ND       | 0.010 | Fenchlorphos        | ND       | 0.010 | Pentachloroanisole  | ND       | 0.010 |
| Carbofuran            | ND       | 0.10  | Fenoxycarb          | ND       | 0.050 | Permethrines        | ND       | 0.050 |
| Chlordane cis-        | ND       | 0.050 | Fenpropathrine      | ND       | 0.050 | Phosalone           | ND       | 0.050 |
| Chlordane trans-      | ND       | 0.050 | Fenpropimorphe      | ND       | 0.10  | Phosmet             | ND       | 0.050 |
| Chlorfenvinphos       | ND       | 0.010 | Fensulfothion       | ND       | 0.050 | Piperonyl butoxide  | ND       | 0.050 |
| Chlorobenzilate       | ND       | 0.050 | Fenthion            | ND       | 0.50  | Pirimicarb          | ND       | 0.050 |
| Chlorothalonil        | ND       | 0.050 | Fenvalerates        | ND       | 0.050 | Pirimiphos Ethyl-   | ND       | 0.010 |
| Chlorpropham          | ND       | 0.050 | Fluazifop p-Butyl-  | ND       | 0.010 | Pirimiphos Methyl-  | ND       | 0.050 |
| Chlorpyrifos Ethyl-   | ND       | 0.010 | Flucythrines        | ND       | 0.010 | Prochloraz          | ND       | 0.050 |
| Chlorpyrifos Methyl-  | ND       | 0.050 | Flusilazole         | ND       | 0.050 | Procymidone         | ND       | 0.010 |
| Chlorthal Dimethyl-   | ND       | 0.010 | Flutolanil          | ND       | 0.050 | Profenophos         | ND       | 0.050 |
| Clomazone             | ND       | 0.010 | Flutriafol          | ND       | 0.050 | Propiconazols       | ND       | 0.050 |
| Coumaphos             | ND       | 0.050 | Fonofos             | ND       | 0.050 | Propyzamide         | ND       | 0.010 |
| Cyfluthrines          | ND       | 0.050 | HCH α-              | ND       | 0.050 | Prothiofos          | ND       | 0.050 |
| Cyhalothrine λ-       | ND       | 0.050 | HCH β- + Lindane    | ND       | 0.020 | Pyridaben           | ND       | 0.050 |
| Cypermethrines        | ND       | 0.050 | HCH δ-              | ND       | 0.050 | Pyridaphenthion     | ND       | 0.050 |
| DDD o,p'-             | ND       | 0.010 | Heptachlor epoxide  | ND       | 0.050 | Pirimethanil        | ND       | 0.050 |
| DDD p,p'- + DDT o,p'- | ND       | 0.020 | Heptachlore         | ND       | 0.010 | Quinalphos          | ND       | 0.50  |
| DDE o,p'-             | ND       | 0.010 | Hexachlorobenzene   | ND       | 0.010 | Quizalofop Ethyl-   | ND       | 0.010 |
| DDE p,p'-             | ND       | 0.010 | Hexaconazole        | ND       | 0.050 | S421                | ND       | 0.050 |
| DDT p,p'-             | ND       | 0.050 | Iprodione           | ND       | 0.050 | Sebuthylazine       | ND       | 0.050 |
| Deltamethrines        | ND       | 0.050 | Malaoxon            | ND       | 0.10  | Tebuconazole        | ND       | 0.050 |
| Diazinon              | ND       | 0.050 | Malathion           | ND       | 0.050 | Terbufos            | ND       | 0.50  |
| Dichlofenthion        | ND       | 0.010 | Mecarbam            | ND       | 0.050 | Terbuthylazine      | ND       | 0.050 |
| Dichlofluanide        | ND       | 0.050 | Metalaxyl           | ND       | 0.10  | Tetradifon          | ND       | 0.050 |
| Diclofop Methyl-      | ND       | 0.010 | Metazachlor         | ND       | 0.050 | Tetramethrines      | ND       | 0.50  |
| Diethofencarb         | ND       | 0.050 | Methacrifos         | ND       | 0.050 | Tolclofos Methyl-   | ND       | 0.050 |
| Difenoconazols        | ND       | 0.050 | Methidathion        | ND       | 0.050 | Tolyfluanid         | ND       | 0.050 |
| Diflufenican          | ND       | 0.010 | Methiocarb          | ND       | 0.10  | Triadimefon         | ND       | 0.010 |
| Dimethoate            | ND       | 0.050 | Methoxychlore       | ND       | 0.050 | Triadimenol         | ND       | 0.050 |
| Diphenylamine         | ND       | 0.050 | Metolachlor         | ND       | 0.010 | Triazophos          | ND       | 0.050 |
| Endosulfan α-         | ND       | 0.050 | Mirex               | ND       | 0.010 | Vinclozoline        | ND       | 0.050 |

Unité = mg/kg