

Appalachian Valley Natural Products

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| Certificate of Analysis:    |                                |
|-----------------------------|--------------------------------|
| Oil Name:                   | Lemongrass                     |
| Botanical Name:             | ( <i>Cymbopogon citratus</i> ) |
| Lot Number:                 | HAP17-PS                       |
| Country:                    | Haiti                          |
| Name:                       | Area%                          |
| Prenol                      | 0.03                           |
| Tricyclene                  | 0.31                           |
| Camphene                    | 1.26                           |
| Hept-5-en-2-one <6-methyl-> | 0.96                           |
| Myrcene                     | 0.29                           |
| 1,5,8-p-menthatriene        | 0.18                           |
| 1,5,8-p-menthatriene isomer | 0.12                           |
| Limonene                    | 0.35                           |
| 1,8-Cineole                 | 0.43                           |
| Linalool                    | 1.05                           |
| p-Menth-3-en-9-al           | 0.05                           |
| epiphotocitral A            | 0.07                           |
| Citronellal                 | 0.43                           |
| Chrysanthenol<cis>          | 0.54                           |
| Isocitral <trans>           | 0.99                           |
| Ulemongrass                 | 0.61                           |
| Terpineol <alpha>           | 0.45                           |
| Carveol isomer              | 0.23                           |
| Carveol <trans>             | 0.25                           |
| Carveol <cis>               | 0.32                           |
| Nerol                       | 0.05                           |
| Citronellol                 | 0.26                           |
| Ulemongrass                 | 0.05                           |
| Neral                       | 34.47                          |
| Geraniol                    | 3.81                           |
| Piperitone                  | 0.05                           |
| Geranial                    | 45.59                          |
| Ulemongrass                 | 0.11                           |
| Citronellyl acetate         | 0.05                           |
| Eugenol                     | 0.09                           |

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|                       |      |
|-----------------------|------|
| Geranyl acetate       | 3.86 |
| Caryophyllene <trans> | 1.37 |
| Humulene <alpha>      | 0.21 |
| Muurolene <alpha>     | 0.04 |
| Cadinene <gamma->     | 0.01 |
| Cadinene <delta->     | 0.19 |
| Elemol <alpha->       | 0.32 |
| Ulemongrass           | 0.17 |
| Caryophyllene oxide   | 0.30 |
| Cubenol               | 0.08 |

