

# Certificate of Analysis

Product: **Cymbopogon winterianus organic 2498**

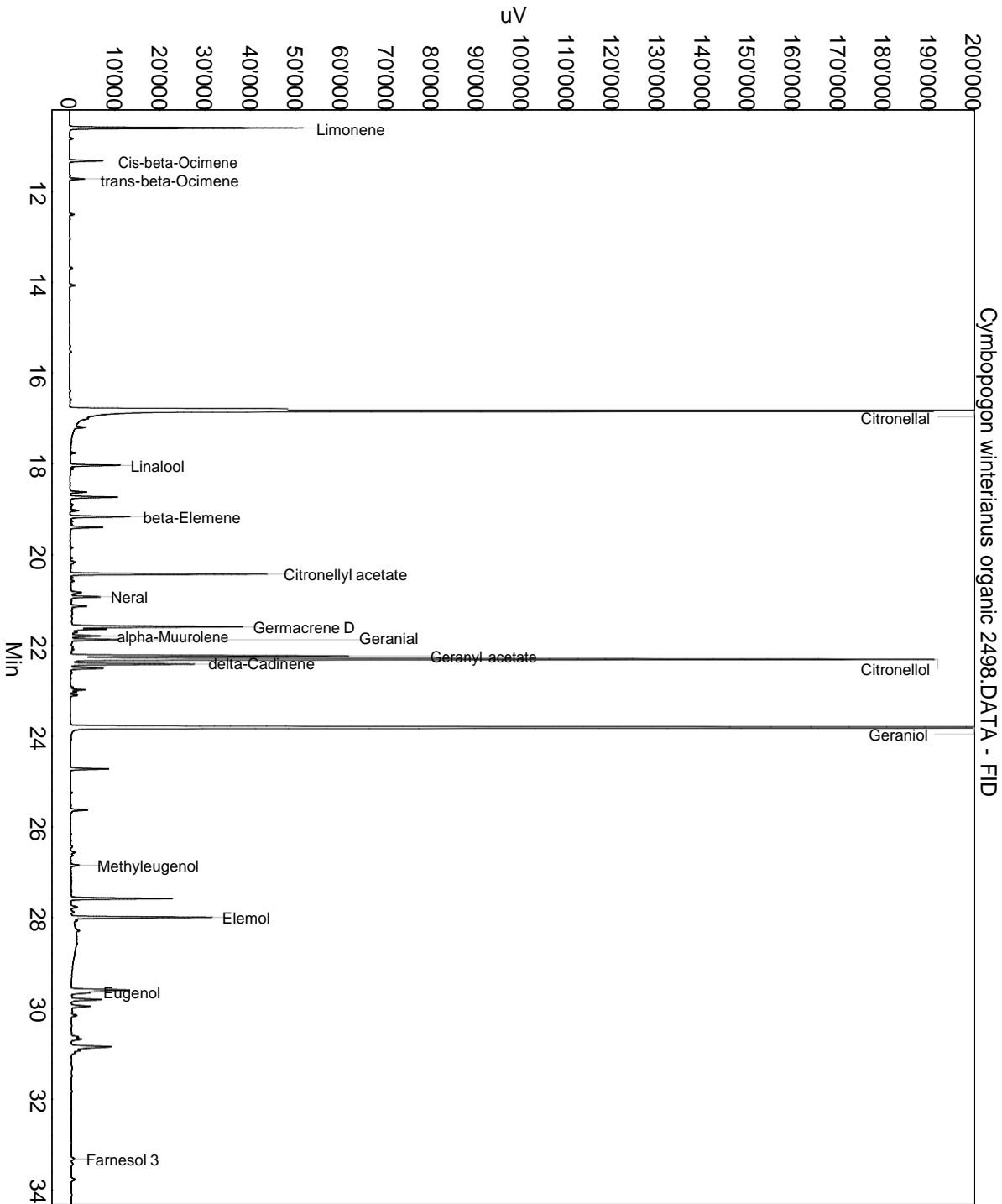
Lot: 2498

Date of analysis: 19.09.2018 18:09:38

System: GC-430 FID

Column: BGB Wax 60m / 0.25mm / 0.25um

Method: 180306 essential basis 60min



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| Index | Name                | Time [Min] | Area [uV.Min] | Area % [%] | Allergene                             |
|-------|---------------------|------------|---------------|------------|---------------------------------------|
| 1     | alpha-Pinene        | 7.02       | 36.3          | 0.069      |                                       |
| 2     |                     | 7.83       | 26.4          | 0.050      |                                       |
| 3     |                     | 9.74       | 39.9          | 0.076      |                                       |
| 4     | Limonene            | 10.60      | 1551.6        | 2.938      | Directive 2003/15EC (7th)             |
| 5     |                     | 10.83      | 24.2          | 0.046      |                                       |
| 6     | Cis-beta-Ocimene    | 11.32      | 213.9         | 0.405      |                                       |
| 7     | trans-beta-Ocimene  | 11.72      | 98.8          | 0.187      |                                       |
| 8     |                     | 12.50      | 32.2          | 0.061      |                                       |
| 9     |                     | 13.68      | 20.4          | 0.039      |                                       |
| 10    |                     | 14.07      | 43.2          | 0.082      |                                       |
| 11    | Citronellal         | 16.84      | 19555.3       | 37.035     |                                       |
| 12    |                     | 17.19      | 73.8          | 0.140      |                                       |
| 13    |                     | 17.76      | 40.5          | 0.077      |                                       |
| 14    | Linalool            | 18.03      | 334.0         | 0.633      | Directive 2003/15EC (7th)             |
| 15    |                     | 18.11      | 23.3          | 0.044      |                                       |
| 16    |                     | 18.62      | 118.4         | 0.224      |                                       |
| 17    |                     | 18.73      | 349.2         | 0.661      |                                       |
| 18    |                     | 19.03      | 54.1          | 0.102      |                                       |
| 19    | beta-Elemene        | 19.16      | 417.4         | 0.791      |                                       |
| 20    |                     | 19.40      | 224.7         | 0.426      |                                       |
| 21    |                     | 20.16      | 64.1          | 0.121      |                                       |
| 22    | Citronellyl acetate | 20.43      | 1270.0        | 2.405      |                                       |
| 23    |                     | 20.51      | 15.6          | 0.029      |                                       |
| 24    |                     | 20.58      | 23.5          | 0.045      |                                       |
| 25    |                     | 20.83      | 93.7          | 0.178      |                                       |
| 26    | Neral               | 20.93      | 223.5         | 0.423      | (= Citral ) Directive 2003/15EC (7th) |
| 27    |                     | 21.13      | 113.4         | 0.215      |                                       |
| 28    | Germacrene D        | 21.59      | 1243.5        | 2.355      |                                       |
| 29    |                     | 21.64      | 241.6         | 0.458      |                                       |
| 30    |                     | 21.71      | 45.5          | 0.086      |                                       |
| 31    | alpha-Muurolene     | 21.79      | 216.5         | 0.410      |                                       |
| 32    | Geranial            | 21.87      | 344.9         | 0.653      | (= Citral ) Directive 2003/15EC (7th) |
| 33    | Geranyl acetate     | 22.23      | 1816.4        | 3.440      |                                       |
| 34    | Citronellol         | 22.30      | 6094.3        | 11.542     | Directive 2003/15EC (7th)             |
| 35    | delta-Cadinene      | 22.41      | 886.7         | 1.679      |                                       |
| 36    |                     | 22.50      | 241.7         | 0.458      |                                       |
| 37    |                     | 22.60      | 13.5          | 0.026      |                                       |
| 38    |                     | 22.92      | 21.5          | 0.041      |                                       |

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|-------|---------------|------------|---------------|------------|---------------------------|
| 39    |               | 22.98      | 103.6         | 0.196      |                           |
| 40    |               | 23.03      | 40.9          | 0.077      |                           |
| 41    |               | 23.10      | 51.2          | 0.097      |                           |
| 42    | Geraniol      | 23.81      | 11908.4       | 22.553     | Directive 2003/15EC (7th) |
| 43    |               | 24.72      | 267.7         | 0.507      |                           |
| 44    |               | 25.63      | 128.2         | 0.243      |                           |
| 45    |               | 26.56      | 41.9          | 0.079      |                           |
| 46    |               | 26.63      | 18.4          | 0.035      |                           |
| 47    | Methyleugenol | 26.85      | 30.5          | 0.058      |                           |
| 48    |               | 26.85      | 31.8          | 0.060      |                           |
| 49    |               | 27.58      | 744.4         | 1.410      |                           |
| 50    |               | 27.77      | 57.8          | 0.109      |                           |
| 51    |               | 27.88      | 26.6          | 0.050      |                           |
| 52    | Elemol        | 27.99      | 1019.6        | 1.931      |                           |
| 53    |               | 28.06      | 34.0          | 0.064      |                           |
| 54    |               | 28.29      | 37.7          | 0.071      |                           |
| 55    |               | 29.60      | 576.9         | 1.093      |                           |
| 56    | Eugenol       | 29.64      | 13.6          | 0.026      | Directive 2003/15EC (7th) |
| 57    |               | 29.65      | 146.1         | 0.277      |                           |
| 58    |               | 29.81      | 270.9         | 0.513      |                           |
| 59    |               | 29.96      | 161.0         | 0.305      |                           |
| 60    |               | 30.16      | 47.7          | 0.090      |                           |
| 61    |               | 30.63      | 60.7          | 0.115      |                           |
| 62    |               | 30.68      | 93.1          | 0.176      |                           |
| 63    |               | 30.85      | 451.2         | 0.854      |                           |
| 64    |               | 30.93      | 112.7         | 0.213      |                           |
| 65    | Farnesol 3    | 33.31      | 35.5          | 0.067      |                           |
| 66    |               | 33.77      | 43.3          | 0.082      |                           |
|       |               |            |               |            |                           |
| Total |               |            | 52802.8       | 100.000    |                           |

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