

# Certificate of Analysis

Product: **Zingiber officinale organic 1974**

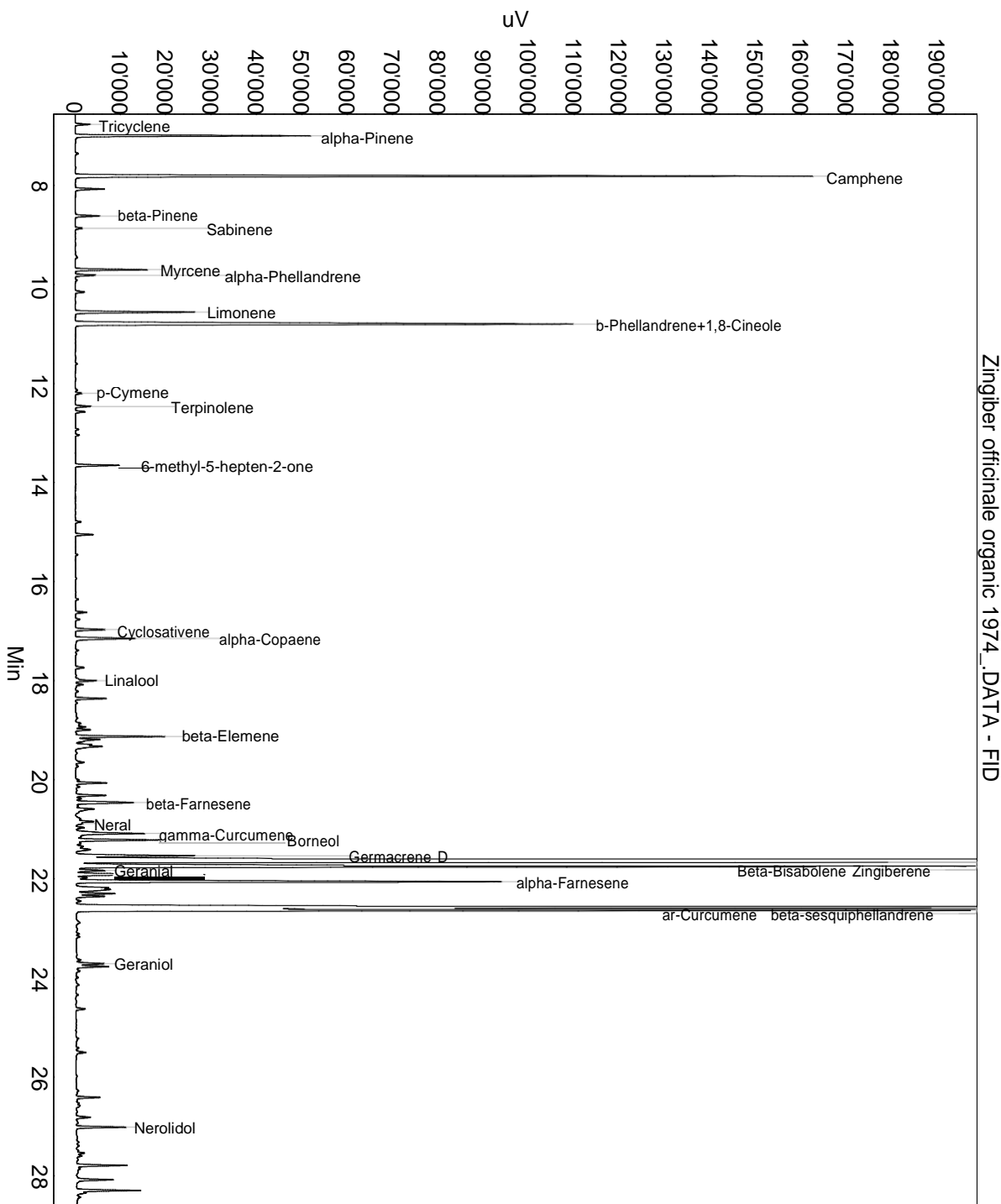
Lot: 1974

Date of analysis: 29.01.2020 09:21:12

System: GC-430 FID

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

Method: 180306 essential basis 60min



Zingiber officinale organic 1974 .DATA - FID

This data sheet was issued to the best of our knowledge and is supplied without warranty for its correctness or accuracy.

## Certificate of Analysis

Product: **Zingiber officinale organic 1974**

Lot: 1974

Date of analysis: 29.01.2020 09:21:12

System: GC-430 FID

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

Method: 180306 essential basis 60min

| Index | Name                       | Time [Min] | Area [uV.Min] | Area % [%] | Allergene                 |
|-------|----------------------------|------------|---------------|------------|---------------------------|
| 1     | Tricyclene                 | 6.77       | 96.3          | 0.119      |                           |
| 2     | alpha-Pinene               | 7.00       | 1452.7        | 1.787      |                           |
| 3     | Camphene                   | 7.81       | 4799.9        | 5.906      |                           |
| 4     |                            | 8.07       | 197.6         | 0.243      |                           |
| 5     | beta-Pinene                | 8.62       | 169.4         | 0.208      |                           |
| 6     | Sabinene                   | 8.87       | 49.4          | 0.061      |                           |
| 7     | Myrcene                    | 9.70       | 456.5         | 0.562      |                           |
| 8     | alpha-Phellandrene         | 9.81       | 138.2         | 0.170      |                           |
| 9     |                            | 10.15      | 68.8          | 0.085      |                           |
| 10    | Limonene                   | 10.56      | 807.2         | 0.993      | Directive 2003/15EC (7th) |
| 11    | b-Phellandrene+1,8-Cineole | 10.80      | 4455.8        | 5.483      |                           |
| 12    | p-Cymene                   | 12.20      | 45.6          | 0.056      |                           |
| 13    | Terpinolene                | 12.46      | 109.3         | 0.135      |                           |
| 14    |                            | 12.57      | 69.1          | 0.085      |                           |
| 15    |                            | 12.93      | 21.6          | 0.027      |                           |
| 16    |                            | 13.04      | 26.6          | 0.033      |                           |
| 17    | 6-methyl-5-hepten-2-one    | 13.65      | 297.5         | 0.366      |                           |
| 18    |                            | 14.80      | 37.9          | 0.047      |                           |
| 19    |                            | 15.05      | 117.6         | 0.145      |                           |
| 20    |                            | 16.62      | 75.1          | 0.092      |                           |
| 21    |                            | 16.76      | 31.7          | 0.039      |                           |
| 22    | Cyclosativene              | 16.97      | 217.2         | 0.267      |                           |
| 23    | alpha-Copaene              | 17.15      | 482.4         | 0.593      |                           |
| 24    |                            | 17.74      | 65.3          | 0.080      |                           |
| 25    | Linalool                   | 18.00      | 156.8         | 0.193      | Directive 2003/15EC (7th) |
| 26    |                            | 18.08      | 61.8          | 0.076      |                           |
| 27    |                            | 18.36      | 201.2         | 0.248      |                           |
| 28    |                            | 18.86      | 55.0          | 0.068      |                           |
| 29    |                            | 18.93      | 71.3          | 0.088      |                           |
| 30    |                            | 18.99      | 98.6          | 0.121      |                           |
| 31    | beta-Elemene               | 19.13      | 611.8         | 0.753      |                           |
| 32    |                            | 19.19      | 177.8         | 0.219      |                           |
| 33    |                            | 19.21      | 48.0          | 0.059      |                           |
| 34    |                            | 19.29      | 99.2          | 0.122      |                           |
| 35    |                            | 19.33      | 236.8         | 0.291      |                           |
| 36    |                            | 19.65      | 69.0          | 0.085      |                           |
| 37    |                            | 19.73      | 22.4          | 0.028      |                           |
| 38    |                            | 20.06      | 197.6         | 0.243      |                           |

This data sheet was issued to the best of our knowledge and is supplied without warranty for its correctness or accuracy.

## Certificate of Analysis

Product: **Zingiber officinale organic 1974**

Lot: 1974

Date of analysis: 29.01.2020 09:21:12

System: GC-430 FID

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

Method: 180306 essential basis 60min

| Index | Name                    | Time [Min] | Area [uV.Min] | Area % [%] | Allergene                             |
|-------|-------------------------|------------|---------------|------------|---------------------------------------|
| 39    |                         | 20.14      | 22.2          | 0.027      |                                       |
| 40    |                         | 20.32      | 214.8         | 0.264      |                                       |
| 41    |                         | 20.38      | 38.5          | 0.047      |                                       |
| 42    | beta-Farnesene          | 20.46      | 544.5         | 0.670      |                                       |
| 43    |                         | 20.59      | 199.4         | 0.245      |                                       |
| 44    |                         | 20.79      | 50.5          | 0.062      |                                       |
| 45    |                         | 20.85      | 143.1         | 0.176      |                                       |
| 46    | Neral                   | 20.89      | 50.1          | 0.062      | (= Citral ) Directive 2003/15EC (7th) |
| 47    |                         | 20.97      | 63.3          | 0.078      |                                       |
| 48    |                         | 21.06      | 82.3          | 0.101      |                                       |
| 49    | gamma-Curcumene         | 21.09      | 590.4         | 0.726      |                                       |
| 50    | Borneol                 | 21.22      | 635.7         | 0.782      |                                       |
| 51    |                         | 21.29      | 41.6          | 0.051      |                                       |
| 52    |                         | 21.35      | 65.2          | 0.080      |                                       |
| 53    |                         | 21.41      | 151.9         | 0.187      |                                       |
| 54    | Germacrene D            | 21.54      | 904.0         | 1.112      |                                       |
| 55    | Zingiberene             | 21.66      | 25500.7       | 31.376     |                                       |
| 56    | Beta-Bisabolene         | 21.76      | 7846.8        | 9.655      |                                       |
| 57    | Geranial                | 21.83      | 222.8         | 0.274      | (= Citral ) Directive 2003/15EC (7th) |
| 58    |                         | 21.92      | 925.8         | 1.139      |                                       |
| 59    |                         | 21.98      | 82.1          | 0.101      |                                       |
| 60    | alpha-Farnesene         | 22.06      | 3124.9        | 3.845      |                                       |
| 61    |                         | 22.18      | 232.9         | 0.287      |                                       |
| 62    |                         | 22.22      | 350.7         | 0.432      |                                       |
| 63    |                         | 22.30      | 275.0         | 0.338      |                                       |
| 64    |                         | 22.36      | 199.2         | 0.245      |                                       |
| 65    |                         | 22.45      | 37.0          | 0.046      |                                       |
| 66    | beta-sesquiphellandrene | 22.58      | 10525.0       | 12.950     |                                       |
| 67    | ar-Curcumene            | 22.64      | 7357.4        | 9.053      |                                       |
| 68    |                         | 23.64      | 31.6          | 0.039      |                                       |
| 69    | Geraniol                | 23.71      | 200.2         | 0.246      | Directive 2003/15EC (7th)             |
| 70    |                         | 23.77      | 226.5         | 0.279      |                                       |
| 71    |                         | 24.63      | 71.2          | 0.088      |                                       |
| 72    |                         | 25.51      | 81.1          | 0.100      |                                       |
| 73    |                         | 26.41      | 161.0         | 0.198      |                                       |
| 74    |                         | 26.82      | 108.4         | 0.133      |                                       |
| 75    | Nerolidol               | 27.01      | 328.4         | 0.404      |                                       |
| 76    |                         | 27.54      | 64.0          | 0.079      |                                       |

This data sheet was issued to the best of our knowledge and is supplied without warranty for its correctness or accuracy.

## Certificate of Analysis

Product: **Zingiber officinale organic 1974**

Lot: 1974

Date of analysis: 29.01.2020 09:21:12

System: GC-430 FID

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

Method: 180306 essential basis 60min

| Index | Name | Time<br>[Min] | Area<br>[uV.Min] | Area %<br>[%] | Allergene |
|-------|------|---------------|------------------|---------------|-----------|
| 77    |      | 27.59         | 54.4             | 0.067         |           |
| 78    |      | 27.79         | 346.2            | 0.426         |           |
| 79    |      | 27.86         | 25.1             | 0.031         |           |
| 80    |      | 28.08         | 277.6            | 0.342         |           |
| 81    |      | 28.29         | 520.7            | 0.641         |           |
| 82    |      | 28.43         | 34.4             | 0.042         |           |
| 83    |      | 28.99         | 96.2             | 0.118         |           |
| 84    |      | 29.34         | 48.1             | 0.059         |           |
| 85    |      | 29.42         | 281.9            | 0.347         |           |
| 86    |      | 29.53         | 70.8             | 0.087         |           |
| 87    |      | 29.94         | 44.5             | 0.055         |           |
| 88    |      | 30.36         | 56.0             | 0.069         |           |
| 89    |      | 30.45         | 43.4             | 0.053         |           |
| 90    |      | 30.55         | 203.4            | 0.250         |           |
| 91    |      | 30.95         | 180.3            | 0.222         |           |
| 92    |      | 30.98         | 107.6            | 0.132         |           |
| 93    |      | 31.26         | 56.5             | 0.069         |           |
| 94    |      | 31.36         | 292.2            | 0.360         |           |
| 95    |      | 31.80         | 60.8             | 0.075         |           |
| 96    |      | 33.29         | 326.9            | 0.402         |           |
|       |      |               |                  |               |           |
| Total |      |               | 81273.5          | 100.000       |           |

This data sheet was issued to the best of our knowledge and is supplied without warranty for its correctness or accuracy.