

## GC/MS BATCH NUMBER: LM0102

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**ESSENTIAL OIL:** LAVENDER FINE ORGANIC  
**BOTANICAL NAME:** LAVANDULA ANGUSTIFOLIA  
**ORIGIN:** SPAIN

| KEY CONSTITUENTS PRESENT IN THIS BATCH OF LAVENDER FINE ORGANIC OIL | %    |
|---|------|
| LINALYL ACETATE   | 34.8 |
| 6-METHYL-3,5-HEPTADIEN-2-ONE + LINALOOL                             | 32.7 |
| TERPINEN-4-OL   | 4.4  |
| (E)- $\beta$ -OCIMENE   | 3.9  |
| (Z)- $\beta$ -OCIMENE   | 3.8  |
| $\beta$ -CARYOPHYLLENE + cis- $\alpha$ -BERGAMOTENE                 | 2.7  |
| LAVANDULYL ACETATE  | 2.5  |
| (E)- $\beta$ -FARNESENE + $\beta$ -SANTALENE                        | 1.9  |

Comments from Robert Tisserand: Beautiful sweet, powdery-floral odor quality. All thirteen key ISO constituents are within range for Lavender oil from "other origins".

**Date :** March 16, 2018

*CERTIFICATE OF ANALYSIS - GC PROFILING*

*SAMPLE IDENTIFICATION*

**Internal code :** 18C06-PTH1-1-CC

**Customer identification :** Lavender Fine Organic - Spain - LM010275R

**Type :** Essential oil

**Source :** *Lavandula angustifolia*

**Customer :** Plant Therapy

*ANALYSIS*

**Method:** PC-PA-014-17J19 - Analysis of the composition of an essential oil, or other volatile liquid, by FAST GC-FID (in French); identifications validated by GC-MS.

**Analyst :** Sarah-Eve Tremblay, M. Sc. A., Chimiste

**Analysis date :** March 14, 2018

Checked and approved by :

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Alexis St-Gelais, M. Sc., chimiste 2013-174

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*PHYSICOCHEMICAL DATA*

**Physical aspect:** Faintly yellow liquid

**Refractive index:**  $1.4605 \pm 0.0003$  (20 °C)

*CONCLUSION*

No adulterant, contaminant or diluent has been detected using this method.

## ANALYSIS SUMMARY

| Identification                        | DB-5 (%) | DB-WAX (%) | Classe               |
|---------------------------------------|----------|------------|----------------------|
| 3-Buten-2-one                         | tr       | 0.01       | Aliphatic ketone     |
| 2-Methyl-3-buten-2-ol                 | 0.01     | 0.01       | Aliphatic alcohol    |
| Isovaleral                            | 0.01     | 0.01       | Aliphatic aldehyde   |
| 2-Methylbutyral                       | tr       | tr         | Aliphatic aldehyde   |
| Isoamyl alcohol                       | tr       | tr         | Aliphatic alcohol    |
| Toluene                               | tr       | 0.06*      | Simple phenolic      |
| Prenal                                | tr       | 0.01       | Aliphatic aldehyde   |
| Hexanal                               | tr       | 0.02*      | Aliphatic aldehyde   |
| Butyl acetate                         | 0.01     | [0.02]*    | Aliphatic ester      |
| Methyl hexyl ether                    | 0.07     | 0.07       | Aliphatic ether      |
| (3Z)-Hexenol                          | 0.02     | 0.01       | Aliphatic alcohol    |
| Hexanol                               | 0.05     | 0.07*      | Aliphatic alcohol    |
| Tricyclene                            | 0.01     | 0.01       | Monoterpene          |
| $\alpha$ -Thujene                     | 0.06     | [0.06]*    | Monoterpene          |
| $\alpha$ -Pinene                      | 0.14     | 0.14       | Monoterpene          |
| Camphene                              | 0.10     | 0.10       | Monoterpene          |
| 5,5-Dimethyl-2(5H)-furanone           | tr       | 2.83*      | Aliphatic lactone    |
| Butyl isobutyrate                     | 0.01     | 0.01       | Aliphatic ester      |
| $\beta$ -Pinene                       | 0.07*    | 0.05       | Monoterpene          |
| Sabinene                              | [0.07]*  | 0.03       | Monoterpene          |
| Octen-3-ol                            | 0.20     | 0.28*      | Aliphatic alcohol    |
| 6-Methyl-5-hepten-2-one               | 0.84*    | 0.01       | Aliphatic ketone     |
| Octan-3-one                           | [0.84]*  | 4.72*      | Aliphatic ketone     |
| Myrcene                               | 0.39*    | 0.39       | Monoterpene          |
| <i>trans</i> -Dehydroxylinalool oxide | [0.39]*  | 0.02       | Monoterpenic ether   |
| Butyl butyrate                        | 0.08     | 0.09       | Aliphatic ester      |
| $\alpha$ -Phellandrene                | 0.16*    | 0.02       | Monoterpene          |
| Octan-3-ol                            | [0.16]*  | 0.15       | Aliphatic alcohol    |
| $\Delta^3$ -Carene                    | 0.07*    | 0.06       | Monoterpene          |
| <i>cis</i> -Dehydroxylinalool oxide   | [0.07]*  | 3.90*      | Monoterpenic ether   |
| (3Z)-Hexenyl acetate                  | 0.01     | 0.01       | Aliphatic ester      |
| $\alpha$ -Terpinene                   | 0.03     | 0.03       | Monoterpene          |
| Hexyl acetate                         | 0.32     | 0.43*      | Aliphatic ester      |
| ortho-Cymene                          | 0.03     | 0.13*      | Simple phenolic      |
| para-Cymene                           | 0.10     | [0.13]*    | Monoterpene          |
| Limonene                              | 1.13*    | 0.49       | Monoterpene          |
| 1,8-Cineole                           | [1.13]*  | 0.66*      | Monoterpenic ether   |
| $\beta$ -Phellandrene                 | [1.13]*  | [0.66]*    | Monoterpene          |
| Lavender lactone                      | 0.01     | 0.13*      | Aliphatic lactone    |
| (Z)- $\beta$ -Ocimene                 | 3.84     | [3.90]*    | Monoterpene          |
| (E)- $\beta$ -Ocimene                 | 3.85     | [4.72]*    | Monoterpene          |
| $\gamma$ -Terpinene                   | 0.13     | 0.12       | Monoterpene          |
| <i>cis</i> -Sabinene hydrate          | 0.11     | 0.26*      | Monoterpenic alcohol |
| <i>cis</i> -Linalool oxide (fur.)     | 0.17     | 0.17       | Monoterpenic alcohol |
| Octanol                               | 0.01     | 67.51*     | Aliphatic alcohol    |
| $\alpha$ -Pinene oxide analog         | 0.03     | [0.07]*    | Monoterpenic ether   |
| Isoterpinolene                        | 0.09*    | 0.02       | Monoterpene          |
| Terpinolene                           | [0.09]*  | [0.43]*    | Monoterpene          |

|                                     |          |          |                        |
|-------------------------------------|----------|----------|------------------------|
| <i>trans</i> -Linalool oxide (fur.) | 0.13     | [0.26]*  | Monoterpenic alcohol   |
| $\alpha$ -Pinene oxide              | tr       | [0.07]*  | Monoterpenic ether     |
| Rosefuran                           | 0.02     | 0.04     | Monoterpenic ether     |
| 6-Methyl-3,5-heptadien-2-one        | 32.69*   | [67.51]* | Aliphatic ketone       |
| Linalool                            | [32.69]* | [67.51]* | Monoterpenic alcohol   |
| Octen-3-yl acetate                  | 0.64     | 0.59     | Aliphatic ester        |
| Unknown                             | 0.03     | 1.92*    | Unknown                |
| $\alpha$ -Campholenal               | 0.01     |          | Monoterpenic aldehyde  |
| Octan-3-yl acetate                  | 0.07     | 0.09     | Aliphatic ester        |
| allo-Ocimene                        | 0.07     | 0.07     | Monoterpene            |
| ( <i>Z</i> )-Myroxide               | 0.02     | 0.02     | Monoterpenic ether     |
| Camphor                             | 0.38     | 0.39     | Monoterpenic ketone    |
| ( <i>E</i> )-Myroxide               | 0.03     | 0.02     | Monoterpenic ether     |
| Unknown                             | 0.01     |          | Oxygenated monoterpene |
| Hexyl isobutyrate                   | 0.05     | 0.05     | Aliphatic ester        |
| Nerol oxide                         | 0.02     | [0.28]*  | Aliphatic ether        |
| Borneol                             | 0.61     | 1.38*    | Monoterpenic alcohol   |
| $\delta$ -Terpineol                 | 0.03*    | 0.03*    | Monoterpenic alcohol   |
| <i>cis</i> -Linalool oxide (pyr.)   | [0.03]*  | 0.01     | Monoterpenic alcohol   |
| Lavandulol                          | 0.67     | 0.70     | Monoterpenic alcohol   |
| Terpinen-4-ol                       | 4.41     | 4.39     | Monoterpenic alcohol   |
| meta-Cymen-8-ol                     | 0.11*    | 0.04     | Monoterpenic alcohol   |
| Cryptone                            | [0.11]*  | [0.13]*  | Normonoterpenic ketone |
| para-Cymen-8-ol                     | 0.06     | 0.04     | Monoterpenic alcohol   |
| $\alpha$ -Terpineol                 | 0.74     | [1.38]*  | Monoterpenic alcohol   |
| Hodiendiol                          | 0.31*    | 0.19*    | Monoterpenic alcohol   |
| Hexyl butyrate                      | [0.31]*  | 0.27     | Aliphatic ester        |
| Unknown                             | 0.02     |          | Unknown                |
| Bornyl formate                      | 0.03     |          | Monoterpenic ester     |
| Nerol                               | 0.13     | 0.14     | Monoterpenic alcohol   |
| Hexyl 2-methylbutyrate              | 0.04*    | tr       | Aliphatic ester        |
| Cuminal                             | [0.04]*  | 0.02*    | Monoterpenic aldehyde  |
| Neral                               | 0.07*    | [0.03]*  | Monoterpenic aldehyde  |
| Carvone                             | [0.07]*  | 0.03     | Monoterpenic ketone    |
| Hexyl isovalerate                   | 0.06     | tr       | Aliphatic ester        |
| Linalyl acetate                     | 35.13*   | [67.51]* | Monoterpenic ester     |
| Geraniol                            | [35.13]* | 0.29     | Monoterpenic alcohol   |
| <i>trans</i> -Ascaridole glycol     | 0.05     | 0.02     | Monoterpenic alcohol   |
| Geranial                            | 0.04     | 0.04*    | Monoterpenic aldehyde  |
| Bornyl acetate                      | 0.10     | [67.51]* | Monoterpenic ester     |
| Lavandulyl acetate                  | 2.49     | 2.50*    | Monoterpenic ester     |
| Hexyl tiglate                       | 0.06     | 0.05     | Aliphatic ester        |
| Hodiendiol derivative               | 0.03     | 0.03     | Oxygenated monoterpene |
| Unknown                             | 0.03     | 0.03     | Oxygenated monoterpene |
| Unknown                             | 0.02     | 0.04     | Oxygenated monoterpene |
| Neryl acetate                       | 0.28     | 0.31     | Monoterpenic ester     |
| 7-Cubebene                          | 0.02     | 0.01     | Sesquiterpene          |
| $\beta$ -Bourbonene                 | 0.03*    | tr       | Sesquiterpene          |
| Daucene                             | [0.03]*  | 0.02     | Sesquiterpene          |
| 7-epi-Sesquithujene?                | 0.01     |          | Sesquiterpene          |
| Geranyl acetate                     | 0.46     | 0.49*    | Monoterpenic ester     |
| Hexyl hexanoate                     | 0.11     | [2.50]*  | Aliphatic ester        |

|  |               |               |                        |
|--|---------------|---------------|------------------------|
| $\alpha$ -Funebrene                                  | 0.03          |               | Sesquiterpene          |
| Sesquithujene  | tr            | [67.51]*      | Sesquiterpene          |
| $\alpha$ -Cedrene                                    | 0.05          | 0.04          | Sesquiterpene          |
| $\beta$ -Caryophyllene                               | 2.74*         | [2.83]*       | Sesquiterpene          |
| <i>cis</i> - $\alpha$ -Bergamotene                   | [2.74]*       | [67.51]*      | Sesquiterpene          |
| $\alpha$ -Santalene                                  | 0.33          | [67.51]*      | Sesquiterpene          |
| Lavandulyl isobutyrate                               | 0.01          | 0.09*         | Monoterpenic ester     |
| Coumarin   | 0.07          | 0.07          | Coumarin               |
| <i>trans</i> - $\alpha$ -Bergamotene                 | 0.11          | [2.83]*       | Sesquiterpene          |
| Isogermacrene D                                      | 0.05          | 0.04          | Sesquiterpene          |
| Sesquisabinene A                                     | 0.01          | 0.01*         | Sesquiterpene          |
| $\alpha$ -Humulene                                   | 0.09          | [0.09]*       | Sesquiterpene          |
| Lavandulyl butyrate?                                 | 0.07          | 0.11*         | Monoterpenic ester     |
| ( <i>E</i> )- $\beta$ -Farnesene                     | 1.92*         | [1.92]*       | Sesquiterpene          |
| $\beta$ -Santalene                                   | [1.92]*       | [0.13]*       | Sesquiterpene          |
| Dauca-5,8-diene?                                     | 0.02          | [0.01]*       | Sesquiterpene          |
| <i>trans</i> -Cadina-1(6),4-diene                    | 0.02          | 0.03          | Sesquiterpene          |
| Germacrene D   | 0.31          | 0.29          | Sesquiterpene          |
| <i>trans</i> - $\beta$ -Bergamotene                  | 0.05*         | [1.92]*       | Sesquiterpene          |
| ar-Curcumene   | [0.05]*       | 0.03          | Sesquiterpene          |
| Isodaucene   | 0.03          | 0.03          | Sesquiterpene          |
| Hodiendiol derivative II                             | 0.02          |               | Oxygenated monoterpene |
| $\beta$ -Bisabolene                                  | 0.04*         | [0.04]*       | Sesquiterpene          |
| Lavandulyl isovalerate                               | [0.04]*       | [0.02]*       | Monoterpenic ester     |
| $\gamma$ -Cadinene                                   | 0.12          | [0.11]*       | Sesquiterpene          |
| $\delta$ -Cadinene                                   | 0.03*         | 0.01          | Sesquiterpene          |
| <i>trans</i> -Calamenene                             | [0.03]*       | 0.01          | Sesquiterpene          |
| $\beta$ -Sesquiphellandrene                          | 0.04          | [0.49]*       | Sesquiterpene          |
| Isocaryophyllene epoxide B                           | 0.01          | 0.02          | Sesquiterpenic ether   |
| Caryophyllene oxide isomer                           | 0.21*         | 0.03          | Sesquiterpenic ether   |
| Caryophyllene oxide                                  | [0.21]*       | [0.19]*       | Sesquiterpenic ether   |
| Dendrolasin  | [0.21]*       | 0.01          | Sesquiterpenic ether   |
| Humulene epoxide II                                  | 0.01          | 0.01          | Sesquiterpenic ether   |
| $\tau$ -Cadinol                                      | 0.04          | 0.05          | Sesquiterpenic alcohol |
| (3 <i>Z</i> )-Caryophylla-3,8(13)-dien-5 $\beta$ -ol | 0.01          | 0.01          | Sesquiterpenic alcohol |
| $\alpha$ -Bisabolol                                  | 0.01          | 0.01          | Sesquiterpenic alcohol |
| <b>Total identified</b>                              | <b>98.88%</b> | <b>98.13%</b> |                        |

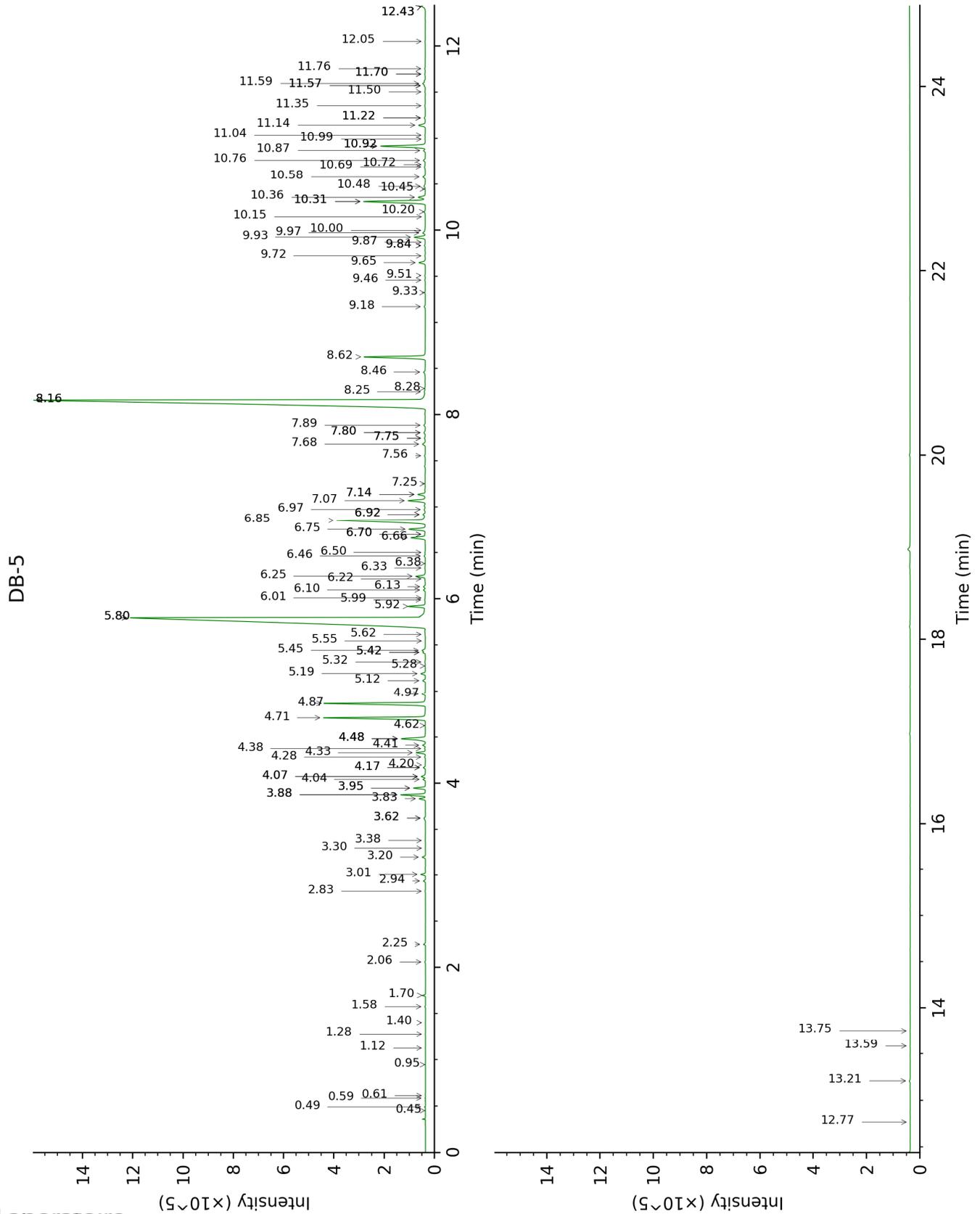
\*: Two or more compounds are coeluting on this column

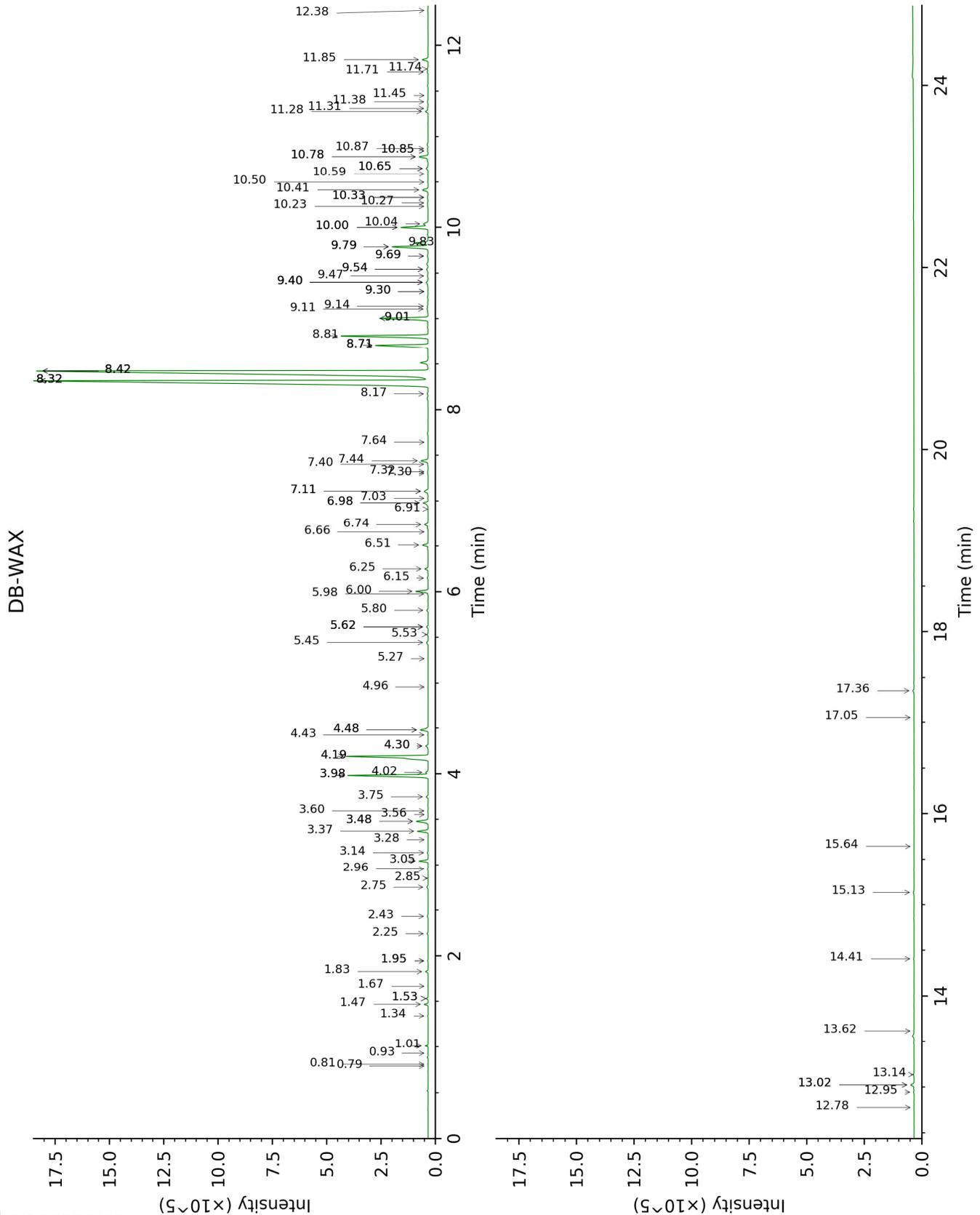
[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

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FULL ANALYSIS DATA

| Identification                        | Column DB-5 |      |        | Column DB-WAX |      |        |
|---------------------------------------|-------------|------|--------|---------------|------|--------|
|                                       | R.T         | R.I  | %      | R.T           | R.I  | %      |
| 3-Buten-2-one                         | 0.45        | 575  | tr     | 0.93          | 913  | 0.01   |
| 2-Methyl-3-buten-2-ol                 | 0.49        | 605  | 0.01   | 1.67          | 1016 | 0.01   |
| Isovaleral                            | 0.59        | 638  | 0.01   | 0.81          | 890  | 0.01   |
| 2-Methylbutyral                       | 0.61        | 648  | tr     | 0.79          | 883  | tr     |
| Isoamyl alcohol                       | 0.95        | 728  | tr     | 3.56          | 1176 | tr     |
| Toluene                               | 1.12        | 754  | tr     | 1.53*         | 1003 | 0.06   |
| Prenal                                | 1.28        | 777  | tr     | 3.28          | 1155 | 0.01   |
| Hexanal                               | 1.40        | 795  | tr     | 1.95*         | 1042 | 0.02   |
| Butyl acetate                         | 1.58        | 812  | 0.01   | 1.95*         | 1042 | [0.02] |
| Methyl hexyl ether                    | 1.70        | 823  | 0.07   | 1.01          | 925  | 0.07   |
| (3Z)-Hexenol                          | 2.06        | 853  | 0.02   | 5.98          | 1350 | 0.01   |
| Hexanol                               | 2.25        | 870  | 0.05   | 5.62*         | 1325 | 0.07   |
| Tricyclene                            | 2.83        | 915  | 0.01   | 1.34          | 977  | 0.01   |
| α-Thujene                             | 2.94        | 922  | 0.06   | 1.53*         | 1003 | [0.06] |
| α-Pinene                              | 3.01        | 927  | 0.14   | 1.47          | 996  | 0.14   |
| Camphene                              | 3.20        | 940  | 0.10   | 1.83          | 1031 | 0.10   |
| 5,5-Dimethyl-2(5H)-furanone           | 3.30        | 946  | tr     | 8.71*         | 1553 | 2.83   |
| Butyl isobutyrate                     | 3.38        | 952  | 0.01   | 2.85          | 1122 | 0.01   |
| β-Pinene                              | 3.62*       | 968  | 0.07   | 2.24          | 1071 | 0.05   |
| Sabinene                              | 3.62*       | 968  | [0.07] | 2.43          | 1089 | 0.03   |
| Octen-3-ol                            | 3.83        | 982  | 0.20   | 6.98*         | 1423 | 0.28   |
| 6-Methyl-5-hepten-2-one               | 3.88*       | 985  | 0.84   | 5.27          | 1300 | 0.01   |
| Octan-3-one                           | 3.88*       | 985  | [0.84] | 4.19*         | 1223 | 4.72   |
| Myrcene                               | 3.95*       | 990  | 0.39   | 3.05          | 1137 | 0.39   |
| <i>trans</i> -Dehydroxylinalool oxide | 3.95*       | 990  | [0.39] | 3.60          | 1179 | 0.02   |
| Butyl butyrate                        | 4.04        | 996  | 0.08   | 3.75          | 1191 | 0.09   |
| α-Phellandrene                        | 4.07*       | 998  | 0.16   | 2.96          | 1130 | 0.02   |
| Octan-3-ol                            | 4.07*       | 998  | [0.16] | 6.25          | 1370 | 0.15   |
| Δ3-Carene                             | 4.17*       | 1004 | 0.07   | 2.75          | 1115 | 0.06   |
| <i>cis</i> -Dehydroxylinalool oxide   | 4.17*       | 1004 | [0.07] | 3.98*         | 1208 | 3.90   |
| (3Z)-Hexenyl acetate                  | 4.20        | 1006 | 0.01   | 4.96          | 1278 | 0.01   |
| α-Terpinene                           | 4.28        | 1011 | 0.03   | 3.14          | 1144 | 0.03   |
| Hexyl acetate                         | 4.33        | 1014 | 0.32   | 4.48*         | 1244 | 0.43   |
| ortho-Cymene                          | 4.38        | 1017 | 0.03   | 4.30*         | 1231 | 0.13   |
| para-Cymene                           | 4.41        | 1020 | 0.10   | 4.30*         | 1231 | [0.13] |
| Limonene                              | 4.48*       | 1024 | 1.13   | 3.37          | 1162 | 0.49   |
| 1,8-Cineole                           | 4.48*       | 1024 | [1.13] | 3.48*         | 1171 | 0.66   |
| β-Phellandrene                        | 4.48*       | 1024 | [1.13] | 3.48*         | 1171 | [0.66] |
| Lavender lactone                      | 4.62        | 1033 | 0.01   | 9.40*         | 1607 | 0.13   |
| (Z)-β-Ocimene                         | 4.71        | 1038 | 3.84   | 3.98*         | 1208 | [3.90] |

|  |       |      |         |        |      |         |
|--|-------|------|---------|--------|------|---------|
| (E)-β-Ocimene  | 4.86  | 1048 | 3.85    | 4.19*  | 1223 | [4.72]  |
| γ-Terpinene  | 4.97  | 1055 | 0.13    | 4.02   | 1210 | 0.12    |
| cis-Sabinene hydrate   | 5.12  | 1064 | 0.11    | 7.11*  | 1432 | 0.26    |
| cis-Linalool oxide (fur.)  | 5.19  | 1069 | 0.17    | 6.74   | 1405 | 0.17    |
| Octanol  | 5.28  | 1074 | 0.01    | 8.32*† | 1523 | 67.51   |
| α-Pinene oxide analog  | 5.32  | 1077 | 0.03    | 5.62*  | 1325 | [0.07]  |
| Isoterpinolene   | 5.42* | 1083 | 0.09    | 4.43   | 1240 | 0.02    |
| Terpinolene  | 5.42* | 1083 | [0.09]  | 4.48*  | 1244 | [0.43]  |
| trans-Linalool oxide (fur.)  | 5.44  | 1084 | 0.13    | 7.11*  | 1432 | [0.26]  |
| α-Pinene oxide   | 5.55  | 1091 | tr      | 5.62*  | 1325 | [0.07]  |
| Rosefuran  | 5.62  | 1095 | 0.02    | 6.15   | 1363 | 0.04    |
| 6-Methyl-3,5-heptadien-2-one                                       | 5.80* | 1107 | 32.69   | 8.42*† | 1531 | [67.51] |
| Linalool   | 5.80* | 1107 | [32.69] | 8.32*† | 1523 | [67.51] |
| Octen-3-yl acetate   | 5.92  | 1115 | 0.64    | 6.00   | 1352 | 0.59    |
| Unknown [m/z 82, 81 (72), 43 (64), 54 (32), 41 (20)...]            | 5.99  | 1119 | 0.03    | 9.79*  | 1639 | 1.92    |
| α-Campholenal  | 6.01  | 1120 | 0.01    |        |      |         |
| Octan-3-yl acetate   | 6.10  | 1126 | 0.07    | 5.44   | 1312 | 0.09    |
| allo-Ocimene   | 6.13  | 1128 | 0.07    | 5.80   | 1338 | 0.07    |
| (Z)-Myroxide   | 6.22  | 1134 | 0.02    | 7.03   | 1427 | 0.02    |
| Camphor  | 6.24  | 1135 | 0.38    | 7.44   | 1457 | 0.39    |
| (E)-Myroxide   | 6.34  | 1141 | 0.03    | 7.30   | 1447 | 0.02    |
| Unknown [m/z 95, 43 (74), 109 (72), 82 (62), 110 (50)... 152 (14)] | 6.38  | 1144 | 0.01    |        |      |         |
| Hexyl isobutyrate  | 6.46  | 1150 | 0.05    | 5.53   | 1319 | 0.05    |
| Nerol oxide  | 6.50  | 1152 | 0.02    | 6.98*  | 1423 | [0.28]  |
| Borneol  | 6.66  | 1162 | 0.61    | 10.00* | 1656 | 1.38    |
| δ-Terpineol  | 6.70* | 1164 | 0.03    | 9.69*  | 1630 | 0.03    |
| cis-Linalool oxide (pyr.)  | 6.70* | 1164 | [0.03]  | 10.50  | 1696 | 0.01    |
| Lavandulol   | 6.76  | 1168 | 0.67    | 9.83   | 1642 | 0.70    |
| Terpinen-4-ol  | 6.85  | 1174 | 4.41    | 8.81   | 1561 | 4.39    |
| meta-Cymen-8-ol  | 6.92* | 1179 | 0.11    | 11.71  | 1798 | 0.04    |
| Cryptone   | 6.92* | 1179 | [0.11]  | 9.40*  | 1607 | [0.13]  |
| para-Cymen-8-ol  | 6.97  | 1182 | 0.06    | 11.74  | 1801 | 0.04    |
| α-Terpineol  | 7.07  | 1188 | 0.74    | 10.00* | 1656 | [1.38]  |
| Hodiendiol   | 7.14* | 1193 | 0.31    | 13.02* | 1915 | 0.19    |
| Hexyl butyrate   | 7.14* | 1193 | [0.31]  | 6.51   | 1389 | 0.27    |
| Unknown [m/z 43, 71 (66), 59 (52), 41 (47), 68 (46)...]            | 7.25  | 1200 | 0.02    |        |      |         |
| Bornyl formate   | 7.56  | 1220 | 0.03    |        |      |         |
| Nerol  | 7.68  | 1228 | 0.13    | 11.28  | 1762 | 0.14    |
| Hexyl 2-   | 7.75* | 1233 | 0.04    | 6.66   | 1399 | tr      |

|  |        |      |         |        |      |         |
|--|--------|------|---------|--------|------|---------|
| methylbutyrate   |        |      |         |        |      |         |
| Cuminal  | 7.75*  | 1233 | [0.04]  | 10.85* | 1725 | 0.02    |
| Neral  | 7.80*  | 1237 | 0.07    | 9.69*  | 1630 | [0.03]  |
| Carvone  | 7.80*  | 1237 | [0.07]  | 10.27  | 1677 | 0.03    |
| Hexyl isovalerate  | 7.89   | 1242 | 0.06    | 6.91   | 1418 | tr      |
| Linalyl acetate  | 8.16*  | 1260 | 35.13   | 8.32*† | 1523 | [67.51] |
| Geraniol   | 8.16*  | 1260 | [35.13] | 11.85  | 1810 | 0.29    |
| <i>trans</i> -Ascaridole glycol  | 8.25   | 1266 | 0.05    | 14.41  | 2045 | 0.02    |
| Geranial   | 8.28   | 1269 | 0.04    | 10.33* | 1682 | 0.04    |
| Bornyl acetate   | 8.46   | 1281 | 0.10    | 8.42*† | 1531 | [67.51] |
| Lavandulyl acetate   | 8.62   | 1292 | 2.49    | 9.01*  | 1576 | 2.50    |
| Hexyl tiglate  | 9.18   | 1330 | 0.06    | 9.11   | 1584 | 0.05    |
| Hodiendiol derivative  | 9.33   | 1341 | 0.03    | 13.14  | 1926 | 0.03    |
| Unknown [m/z 43, 79 (47), 71 (31), 94 (27), 81 (23), 41 (22)... 197 (0)] | 9.46   | 1350 | 0.03    | 11.31  | 1765 | 0.03    |
| Unknown [m/z 43, 79 (46), 71 (30), 94 (25), 41 (23), 81 (21)... 197 (0)] | 9.51   | 1354 | 0.02    | 11.38  | 1771 | 0.04    |
| Neryl acetate  | 9.65   | 1364 | 0.28    | 10.41  | 1689 | 0.31    |
| 7-Cubebene   | 9.72   | 1369 | 0.02    | 7.32   | 1448 | 0.01    |
| β-Bourbonene   | 9.84*  | 1376 | 0.03    | 7.64   | 1472 | tr      |
| Daucene  | 9.84*  | 1376 | [0.03]  | 7.40   | 1454 | 0.02    |
| 7-epi-Sesquithujene?   | 9.87   | 1379 | 0.01    |        |      |         |
| Geranyl acetate  | 9.93   | 1383 | 0.46    | 10.78* | 1720 | 0.49    |
| Hexyl hexanoate  | 9.97   | 1386 | 0.11    | 9.01*  | 1576 | [2.50]  |
| α-Funebrene  | 10.00  | 1388 | 0.03    |        |      |         |
| Sesquithujene  | 10.15  | 1398 | tr      | 8.32*† | 1523 | [67.51] |
| α-Cedrene  | 10.20  | 1402 | 0.05    | 8.17   | 1512 | 0.04    |
| β-Caryophyllene  | 10.31* | 1411 | 2.74    | 8.71*  | 1553 | [2.83]  |
| <i>cis</i> -α-Bergamotene  | 10.31* | 1411 | [2.74]  | 8.42*† | 1531 | [67.51] |
| α-Santalene  | 10.36  | 1414 | 0.33    | 8.42*† | 1531 | [67.51] |
| Lavandulyl isobutyrate   | 10.45  | 1421 | 0.01    | 9.54*  | 1619 | 0.09    |
| Coumarin   | 10.48  | 1423 | 0.07    | 17.36  | 2346 | 0.07    |
| <i>trans</i> -α-Bergamotene  | 10.58  | 1430 | 0.11    | 8.71*  | 1553 | [2.83]  |
| Isogermacrene D  | 10.69  | 1439 | 0.05    | 9.14   | 1587 | 0.04    |
| Sesquisabinene A   | 10.72  | 1441 | 0.01    | 9.30*  | 1599 | 0.01    |
| α-Humulene   | 10.76  | 1444 | 0.09    | 9.54*  | 1619 | [0.09]  |
| Lavandulyl butyrate?   | 10.87  | 1452 | 0.07    | 10.65* | 1709 | 0.11    |
| ( <i>E</i> )-β-Farnesene   | 10.92* | 1456 | 1.92    | 9.79*  | 1639 | [1.92]  |
| β-Santalene  | 10.92* | 1456 | [1.92]  | 9.40*  | 1607 | [0.13]  |
| Dauca-5,8-diene?   | 10.99  | 1461 | 0.02    | 9.30*  | 1599 | [0.01]  |
| <i>trans</i> -Cadina-1(6),4-diene  | 11.04  | 1464 | 0.02    | 9.47   | 1613 | 0.03    |

|  |        |               |        |        |               |        |
|--|--------|---------------|--------|--------|---------------|--------|
| Germacrene D                                 | 11.14  | 1473          | 0.31   | 10.04  | 1659          | 0.29   |
| <i>trans</i> -β-Bergamotene                  | 11.22* | 1478          | 0.05   | 9.79*  | 1639          | [1.92] |
| ar-Curcumene                                 | 11.22* | 1478          | [0.05] | 10.87  | 1728          | 0.03   |
| Isodaucene                                   | 11.35  | 1488          | 0.03   | 10.23  | 1674          | 0.03   |
| Hodiendiol derivative II                     | 11.50  | 1499          | 0.02   |        |               |        |
| β-Bisabolene                                 | 11.57* | 1504          | 0.04   | 10.33* | 1682          | [0.04] |
| Lavandulyl isovalerate                       | 11.57* | 1504          | [0.04] | 10.85* | 1725          | [0.02] |
| γ-Cadinene                                   | 11.59  | 1506          | 0.12   | 10.65* | 1709          | [0.11] |
| δ-Cadinene                                   | 11.70* | 1514          | 0.03   | 10.59  | 1704          | 0.01   |
| <i>trans</i> -Calamenene                     | 11.70* | 1514          | [0.03] | 11.45  | 1777          | 0.01   |
| β-Sesquiphellandrene                         | 11.76  | 1519          | 0.04   | 10.78* | 1720          | [0.49] |
| Isocaryophyllene epoxide B                   | 12.05  | 1542          | 0.01   | 12.38  | 1858          | 0.02   |
| Caryophyllene oxide isomer                   | 12.43* | 1572          | 0.21   | 12.94  | 1908          | 0.03   |
| Caryophyllene oxide                          | 12.43* | 1572          | [0.21] | 13.02* | 1915          | [0.19] |
| Dendrolasin                                  | 12.43* | 1572          | [0.21] | 12.78  | 1893          | 0.01   |
| Humulene epoxide II                          | 12.77  | 1598          | 0.01   | 13.62  | 1970          | 0.01   |
| τ-Cadinol                                    | 13.21  | 1635          | 0.04   | 15.13  | 2116          | 0.05   |
| (3 <i>Z</i> )-Caryophylla-3,8(13)-dien-5β-ol | 13.59  | 1666          | 0.01   | 17.06  | 2313          | 0.01   |
| α-Bisabolol                                  | 13.75  | 1679          | 0.01   | 15.64  | 2167          | 0.01   |
| <b>Total identified</b>                      |        | <b>98.88%</b> |        |        | <b>98.13%</b> |        |
| <b>Total reported</b>                        |        | <b>99.00%</b> |        |        | <b>98.19%</b> |        |

\*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

†: Peaks apexes were resolved, but peaks overlapped and were summed for analysis

tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

R.T.: Retention time (minutes)

R.I.: Retention index