

**Table S2. Chemical composition of *Litsea cubeba* essential oils.** A total of 31 families were analyzed in this study and the last 15 families were listed in this table.

| Chemical composition                             | F1          | F2          | F3          | F4          | F5          | F6          | F7          | F8           | F9          | F11         | F12         | F20         | F21         | F24          | F25         |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|
| <b>Monoterpene hydrocarbons</b>                  | <b>3.48</b> | <b>0.73</b> | <b>3.76</b> | <b>0.57</b> | <b>2.38</b> | <b>3.96</b> | <b>0.22</b> | <b>10.16</b> | <b>0.03</b> | <b>1.12</b> | <b>0.09</b> | <b>0.36</b> | <b>0.37</b> | <b>10.68</b> | <b>1.17</b> |
| D-Limonene                                       | 3.02        | 0.60        | 3.29        | 0.34        | 1.77        | 3.16        | 0.19        | 7.27         | 0.03        | 0.65        | 0.08        | 0.24        | 0.29        | 8.98         | 0.88        |
| $\alpha$ -Pinene                                 | 0.02        | -           | 0.02        | -           | 0.02        | 0.06        | -           | 0.48         | -           | 0.06        | -           | -           | 0.01        | 0.37         | -           |
| $\beta$ -Pinene                                  | 0.06        | -           | 0.05        | -           | 0.07        | 0.09        | 0.01        | 0.85         | -           | 0.10        | -           | 0.01        | 0.01        | 0.42         | 0.01        |
| $\beta$ -Phellandrene                            | 0.17        | 0.06        | 0.19        | -           | 0.15        | 0.36        | 0.02        | 0.81         | -           | 0.16        | -           | -           | -           | 0.63         | 0.07        |
| Camphene   | 0.01        | -           | -           | -           | -           | 0.03        | -           | 0.08         | -           | 0.01        | -           | -           | -           | 0.09         | -           |
| (+)-4-Carene                                     | 0.02        | -           | 0.01        | -           | 0.03        | 0.04        | -           | 0.09         | -           | -           | -           | -           | -           | 0.03         | 0.02        |
| Bicyclo[4.1.0]hept-2-ene, 3,7,7-trimethyl-       | -           | -           | -           | -           | 0.01        | -           | -           | 0.10         |             |             |             |             |             | 0.01         | -           |
| Carvone oxide, trans-                            | -           | -           | 0.02        | 0.03        | 0.04        | 0.04        | -           | -            | -           | 0.02        | -           | -           | -           | -            | 0.03        |
| Benzene, 1-methyl-2-(1-methylethyl)-             | -           | -           | 0.01        | -           | 0.02        | -           | -           | 0.08         | -           | 0.04        | -           | -           | -           | 0.01         | -           |
| .gamma.-Terpinene                                | -           | -           | 0.01        | -           | 0.06        | -           | -           | 0.28         | -           | 0.03        | 0.01        | 0.01        | -           | 0.02         | 0.01        |
| Bicyclo[2.2.1]heptane, 7,7-dimethyl-2-methylene- | 0.13        | 0.07        | 0.16        | 0.20        | 0.21        | 0.18        | -           | 0.12         | -           | -           | -           | 0.10        | 0.06        | 0.08         | 0.11        |

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**Table S2. (Continued).**

| Chemical composition                                     | F1    | F2    | F3    | F4    | F5    | F6    | F7    | F8    | F9    | F11   | F12   | F20   | F21   | F24   | F25   |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1,6-Heptadiene, 2,5,5-trimethyl-                         | 0.05  | -     | -     | -     | -     | -     | -     | -     | -     | 0.05  | -     | -     | -     | 0.04  | 0.04  |
| Geranial   | 47.85 | 48.03 | 46.76 | 45.91 | 43.06 | 45.46 | 47.13 | 36.74 | 47.55 | 40.50 | 46.47 | 37.59 | 45.72 | 38.90 | 42.98 |
| Neral  | 38.72 | 38.31 | 36.84 | 36.62 | 35.33 | 36.55 | 38.04 | 31.89 | 38.36 | 31.81 | 37.35 | 31.91 | 35.69 | 32.03 | 37.23 |
| Limonene epoxide   | -     | 0.03  | 0.12  | 0.16  | 0.24  | 0.20  | 0.03  | 0.06  | 0.03  | 0.06  | 0.04  | 0.07  | -     | 0.04  | 0.11  |
| Citronellal  | 0.81  | 3.95  | 1.71  | 3.19  | 1.05  | 1.21  | 0.64  | 0.73  | 0.68  | 0.49  | 0.57  | 0.63  | 0.65  | 0.92  | 4.58  |
| Linalool   | 1.38  | 1.47  | 1.30  | 1.35  | 1.66  | 1.65  | 1.46  | 1.88  | 1.49  | 1.20  | 1.50  | 1.48  | 0.72  | 1.26  | 1.92  |
| $\alpha$ -Terpineol                                      | 1.32  | 0.37  | 1.14  | 1.27  | 1.45  | 0.35  | 1.37  | 1.21  | 2.26  | 1.68  | 2.01  | 1.19  | 0.58  | 1.35  | 0.47  |
| Nerol  | 0.35  | 0.84  | 0.45  | 0.43  | 0.97  | 0.50  | 1.61  | 0.91  | 1.67  | 1.08  | 1.06  | 1.63  | 0.28  | 0.44  | 0.49  |
| (S)-cis-Verbenol   | -     | -     | 0.03  | 0.05  | 0.09  | 0.06  | 0.03  | 0.05  | 0.05  | 0.04  | 0.05  | 0.04  | -     | 0.02  | 0.03  |
| Geraniol   | 0.73  | 1.41  | 0.73  | 0.49  | 1.96  | 0.79  | 3.18  | 1.05  | 1.81  | 1.18  | 2.71  | 3.24  | 0.00  | 0.82  | 0.71  |
| Bicyclo[3.1.1]hept-3-en-2-ol, 4,6,6-trimethyl-           | 0.95  | 1.00  | 0.93  | 0.67  | 0.82  | 0.95  | 0.73  | 1.15  | 0.89  | 0.31  | 0.74  | 0.64  | 0.52  | 0.69  | 0.79  |
| cis-Carveol  | 0.03  | -     | 0.06  | 0.10  | 0.12  | 0.13  | 0.04  | 0.03  | 0.03  | 0.06  | 0.03  | 0.05  | 0.02  | 0.02  | 0.05  |
| Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, (1S)-      | -     | -     | -     | 0.04  | -     | -     | 0.05  | -     | -     | 0.03  | -     | -     | -     | -     | 0.05  |
| 5,7-Octadien-2-ol,2,6-dimethyl-                          | 0.08  | 0.07  | -     | 0.14  | 0.12  | 0.18  | -     | -     | 0.11  | -     | 0.12  | -     | 0.28  | 0.19  | 0.11  |
| 2-Cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)-, trans- | -     | -     | -     | 0.07  | -     | 0.13  | -     | -     | -     | -     | -     | -     | 0.07  | 0.09  | -     |
| Terpineol, cis-.beta.-                                   | -     | -     | -     | -     | 0.04  | 0.02  | 0.02  | 0.02  | 0.07  | -     | 0.05  | 0.04  | -     | -     | 0.01  |
| Cyclohexanone, 5-methyl-2-(1-methylethenyl)-, trans-     | 1.32  | 1.40  | 1.34  | 1.04  | 1.19  | 1.50  | 1.09  | 1.90  | 1.24  | 0.66  | 1.11  | 0.95  | 0.90  | 1.08  | 1.07  |
| Eucalyptol   | 1.11  | 0.19  | 0.50  | 0.13  | 0.56  | 0.01  | 0.20  | 2.44  | 0.06  | 0.58  | 0.14  | 0.21  | -     | 1.43  | 0.24  |
| Oxiranecarboxaldehyde,3-methyl-3-(4-methyl-3-pentenyl)-  | 0.09  | -     | 0.19  | 0.34  | 0.28  | 0.32  | 0.14  | -     | -     | 0.12  | 0.11  | 0.13  | 0.06  | 0.07  | 0.18  |
| Piperitone   | 0.12  | 0.11  | 0.15  | 0.17  | 0.14  | 0.16  | 0.14  | 0.13  | 0.11  | 0.25  | 0.12  | 0.15  | 0.12  | 0.10  | 0.12  |

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| Chemical composition                                   | F1          | F2          | F3          | F4          | F5          | F6          | F7          | F8          | F9          | F11          | F12         | F20          | F21         | F24         | F25         |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|
| 3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-         | 0.13        | 0.07        | 0.15        | 0.14        | 1.00        | 0.08        | 0.71        | 1.09        | 0.77        | 0.64         | 1.01        | 0.72         | 0.03        | 0.10        | 0.27        |
| Borneol  | 0.14        | 0.10        | 0.11        | 0.07        | 0.18        | 0.10        | 0.12        | 0.06        | 0.14        | 0.13         | 0.12        | 0.12         | 0.13        | 0.07        |             |
| 3-Oxatricyclo[4.1.1.0(2,4)]octane, 2,7,7-trimethyl-    | -           | 0.03        | 0.08        | 0.15        | 0.12        | 0.14        | 0.03        | 0.01        | 0.02        | 0.03         | 0.02        | 0.04         | 0.01        | 0.02        | 0.06        |
| Neric acid   | -           | -           | 0.06        | 0.04        | 0.02        | 0.06        | -           | 0.02        | 0.02        | 0.10         | -           | -            | 0.03        | 0.04        | -           |
| Geranic acid   | -           | -           | 0.06        | 0.06        | 0.04        | 0.09        | -           | 0.04        | 0.03        | 0.18         | 0.04        | 0.10         | 0.08        | 0.05        | -           |
| Carveol  | -           | 0.06        | 0.03        | 0.05        | 0.07        | 0.08        | 0.04        | 0.10        | 0.06        | 0.07         | 0.08        | 0.08         | 0.05        | 0.05        | 0.05        |
| <b>Sesquiterpenes</b>                                  | <b>0.65</b> | <b>0.72</b> | <b>1.02</b> | <b>2.39</b> | <b>2.72</b> | <b>2.29</b> | <b>0.95</b> | <b>1.52</b> | <b>0.87</b> | <b>5.72</b>  | <b>1.47</b> | <b>6.13</b>  | <b>4.73</b> | <b>3.21</b> | <b>2.58</b> |
| Caryophyllene  | 0.53        | 0.66        | 1.00        | 1.95        | 2.16        | 1.50        | 0.90        | 1.51        | 0.85        | 5.47         | 1.43        | 6.03         | 4.53        | 3.15        | 2.51        |
| Caryophyllene oxide                                    | 0.12        | 0.06        | 0.02        | 0.38        | 0.54        | 0.75        | 0.05        | 0.01        | 0.02        | 0.23         | 0.04        | 0.10         | 0.20        | 0.06        | 0.07        |
| 2Z,6E-Farnesol   | -           |             | -           | 0.06        | 0.02        | 0.04        | -           | -           | -           | 0.02         | -           | -            | -           | -           | -           |
| <b>Others</b>  | <b>0.74</b> | <b>1.12</b> | <b>2.48</b> | <b>4.35</b> | <b>4.41</b> | <b>3.05</b> | <b>2.04</b> | <b>6.80</b> | <b>1.65</b> | <b>11.96</b> | <b>3.00</b> | <b>12.45</b> | <b>8.83</b> | <b>6.34</b> | <b>4.72</b> |
| 5-Hepten-2-one   | 0.03        | -           | -           | -           | -           | 0.10        | 0.04        | 0.46        | 0.02        | -            | 0.05        | 0.11         | -           | 0.09        | 0.04        |
| Butanoic acid, 3,7-dimethyl-6-octenyl - ester          | -           | -           | 0.01        | 0.02        | 0.02        | 0.02        | -           | -           | -           | -            | -           | -            | -           | -           | 0.03        |
| 2,6-Octadiene, 1,1-diethoxy-3,7-dimethyl-              | 0.44        | 0.84        | 2.16        | 3.99        | 3.94        | 2.52        | 1.83        | 2.70        | 1.46        | 11.55        | 2.68        | 12.07        | 8.68        | 6.00        | 4.34        |
| 2-Octene, 2-methyl-6-methylene-                        | 0.14        | 0.23        | 0.17        | 0.17        | 0.17        | 0.22        | 0.12        | 0.23        | 0.16        | 0.10         | 0.13        | 0.12         | 0.10        | 0.12        | 0.14        |
| Tricyclo[2.2.1.0(2,6)]heptane-3methanol, 2,3-dimethyl- | 0.11        | 0.05        | 0.12        | 0.17        | 0.16        | 0.19        | 0.02        | 0.05        | -           | 0.07         | -           | 0.05         | 0.05        | 0.02        | 0.15        |
| Cyclohexene, 4-methylene-1-(1-methylethyl)-            | 0.02        | -           | 0.02        | -           | 0.12        | -           | 0.03        | 3.36        | 0.01        | 0.23         | 0.01        | 0.04         | -           | 0.11        | -           |
| Cyclohexane, (1-methylethyl)-                          | -           | -           | -           | -           | -           | -           | -           | -           | -           | 0.01         | 0.13        | 0.06         | -           | -           | 0.02        |