**Table S2** Compounds with significant difference of dried and stir fried ginger

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NO. | Components | tR/min | M(Da) | Formula | *P*-values |
| 1 | 6-Gingesulfonic acid | 5.67 | 358.14 | C17H26O6S | ↓\*\*\* |
| 2 | Shyobunone | 6.32 | 220.18 | C15H24O | ↑\*\* |
| 3 | 4-Hydroxybenzaldehyde | 6.51 | 122.04 | C7H6O2 | ↑\*\*\* |
| 4 | Gingerenone A | 7.24 | 356.16 | C21H24O5 | ↓\* |
| 5 | Diepicedrene-1-oxide | 7.65 | 220.18 | C15H24O | ↓\*\* |
| 6 | Hexahydrocurcumin | 8.09 | 374.17 | C21H26O6 | ↓\*\* |
| 7 | Citral | 8.21 | 152.11 | C10H16O | ↓\* |
| 8 | 4-Gingerol | 8.43 | 266.15 | C15H22O4 | ↓\*\*\* |
| 9 | (-)-Alpha-cubebene | 8.67 | 204.18 | C15H24 | ↑\*\*\* |
| 10 | 5-Gingerol | 9.18 | 280.16 | C16H24O4 | ↓\* |
| 11 | 6-Gingerdione | 9.47 | 292.16 | C17H24O4 | ↓\*\* |
| 12 | 6-Shogaol | 9.48 | 276.17 | C17H24O3 | ↑\*\*\* |
| 13 | Sabinene | 10.03 | 136.12 | C10H16 | ↑\* |
| 14 | Zingiberone | 10.25 | 194.09 | C11H14O3 | ↑\* |
| 15 | 6-gingerol | 10.27 | 294.18 | C17H26O4 | ↓\* |
| 16 | 1-(4-Hydroxy-3-methoxyphenyl)decan-5-one | 12.21 | 278.18 | C17H26O3 | ↑\* |
| 17 | 8-Shogaol | 12.59 | 304.20 | C19H28O3 | ↑\* |
| 18 | Alpha-curcumene | 12.65 | 202.17 | C15H22 | ↓\*\* |
| 19 | 10-Shogaol | 13.74 | 332.23 | C21H32O3 | ↑\* |
| 20 | DBP | 14.13 | 278.15 | C16H22O4 | ↓\*\*\* |
| 21 | α-Zingiberene | 14.44 | 205.19 | C15H24 | ↓\*\*\* |
| 22 | (Z,Z)-farnesol | 14.74 | 223.20 | C15H26O | ↑\*\* |
| 23 | 2-Undecanone | 15.44 | 170.16 | C11H22O | ↑\*\*\* |
| 24 | 1-Monolinolein | 16.90 | 354.27 | C21H38O4 | ↑\* |
| 25 | 4-Allylanisole | 17.74 | 148.08 | C10H12O | ↑\*\* |
| 26 | 2-Methyl-2-heptene | 18.32 | 112.12 | C8H16 | ↓\*\*\* |
| 27 | O-cymol | 18.74 | 134.10 | C10H14 | ↑\*\* |

Compared with dried ginger, \*P<0.05，\*\*P<0.01，\*\*\*P<0.001