Supplementary Table 1. Fermentative volatiles in control and UHPH musts fermented by *Saccharomyces cerevisiae* (Sc7VA), *Lachancea thermotolerans* (L31), *Torulaspora delbrueckii* (Td), *Hanseniaspora vineae* (Hv), *Metschnikowia pulcherrima* (M29). Compounds analyzed by HS-SPME-GC-MS, values are means ± sd (fermentations in triplicate) in µg $L^{-1}$. Different letters within the same row mean significant differences for ANOVA and Tukey HSD test at $p<0.05$.

| | Sc7VA | | | | L31 | | | | Td | | | | Hv | | | | M29 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Control | | UHPH | | Control | | UHPH | | Control | | UHPH | | Control | | UHPH | | Control | | UHPH | |
| | Mean ± SD | | Mean ± SD | | Mean ± SD | | Mean ± SD | | Mean ± SD | | Mean ± SD | | Mean ± SD | | Mean ± SD | | Mean ± SD | | Mean ± SD | |
| Ethyl hexanoate | 185.2 ± 26.8 | f | 136.4 ± 17.4 | de | 74.7 ± 5.0 | bc | 39.7 ± 1.9 | ab | 107.7 ± 11.7 | cd | 28.6 ± 3.1 | a | 98.9 ± 8.4 | c | 22.3 ± 2.2 | a | 161.2 ± 16.3 | ef | 77.4 ± 8.3 | c |
| Hexyl acetate | 4.7 ± 0.5 | c | 14.7 ± 1.4 | d | 0.7 ± 0.1 | a | 0.7 ± 0.0 | a | 4.4 ± 0.4 | c | 0.6 ± 0.1 | a | 2.6 ± 0.2 | b | 1.2 ± 0.1 | ab | 4.8 ± 0.5 | c | 2.4 ± 0.2 | b |
| Ethyl-3-hexenoate | 0.5 ± 0.0 | bc | 0.0 ± 0.0 | a | 2.9 ± 0.4 | d | 0.0 ± 0.0 | a | 0.8 ± 0.2 | c | 0.2 ± 0.0 | ab | 0.1 ± 0.0 | a | 0.0 ± 0.0 | a | 0.2 ± 0.1 | ab | 0.2 ± 0.0 | ab |
| 3-Hexen-1-ol acetate | 0.8 ± 0.1 | de | 1.5 ± 0.2 | f | 0.0 ± 0.0 | a | 0.2 ± 0.2 | ab | 0.6 ± 0.1 | cd | 0.0 ± 0.0 | a | 0.3 ± 0.0 | abc | 0.2 ± 0.2 | ab | 1.0 ± 0.1 | e | 0.4 ± 0.1 | bcd |
| 4-methyl-1-pentanol | 0.8 ± 0.2 | d | 0.2 ± 0.0 | a | 0.5 ± 0.1 | bc | 0.2 ± 0.0 | ab | 0.5 ± 0.1 | c | 0.2 ± 0.0 | a | 0.4 ± 0.1 | abc | 1.4 ± 0.1 | e | 0.6 ± 0.1 | cd | 0.1 ± 0.0 | a |
| 3-Hexen-1-ol, (E)- | 2.1 ± 0.8 | a | 1.8 ± 0.4 | a | 1.6 ± 0.3 | a | 2.1 ± 0.4 | a | 1.7 ± 0.3 | a | 1.5 ± 0.3 | a | 1.5 ± 0.3 | a | 2.0 ± 0.5 | a | 2.1 ± 0.6 | ab | 2.2 ± 0.5 | a |
| 3-ethoxy-1-propanol | 0.4 ± 0.1 | a | 1.4 ± 0.4 | bcd | 1.8 ± 0.4 | cde | 2.2 ± 0.4 | de | 1.1 ± 0.2 | abc | 2.4 ± 0.5 | e | 0.3 ± 0.0 | a | 1.1 ± 0.3 | abc | 0.6 ± 0.1 | ab | 1.1 ± 0.3 | abc |
| 3-Hexen-1-ol, (Z)- | 1.1 ± 0.2 | a | 1.7 ± 0.4 | a | 1.0 ± 0.1 | a | 1.5 ± 0.6 | a | 1.0 ± 0.2 | a | 1.3 ± 0.2 | a | 1.0 ± 0.1 | a | 1.5 ± 0.4 | a | 1.1 ± 0.2 | ab | 1.7 ± 0.5 | a |
| Ethyl octanoate | 308.2 ± 26.8 | i | 211.7 ± 30.0 | gh | 96.1 ± 7.5 | cd | 67.5 ± 11.3 | bc | 160.1 ± 11.5 | ef | 40.7 ± 3.1 | ab | 192.5 ± 10.2 | fg | 20.3 ± 2.8 | a | 243.4 ± 11.4 | h | 125.8 ± 15.6 | de |
| Acetic acid | 27.3 ± 6.5 | ab | 57.6 ± 12.7 | c | 24.2 ± 3.1 | ab | 25.6 ± 3.8 | ab | 37.7 ± 7.0 | abc | 15.7 ± 4.0 | a | 63.0 ± 11.6 | c | 48.1 ± 10.8 | bc | 45.2 ± 9.1 | bc | 57.0 ± 12.3 | c |
| 3-methylbutyl hexanoate | 1.7 ± 0.0 | e | 0.3 ± 0.2 | abc | 0.5 ± 0.1 | bc | 0.0 ± 0.0 | a | 0.6 ± 0.3 | c | 0.0 ± 0.0 | a | 0.4 ± 0.1 | bc | 0.0 ± 0.0 | a | 1.2 ± 0.3 | d | 0.1 ± 0.1 | ab |
| Ethyl-3-octenoate | 1.7 ± 0.5 | c | 0.1 ± 0.0 | a | 4.5 ± 0.5 | e | 0.1 ± 0.0 | a | 3.2 ± 0.2 | d | 0.4 ± 0.0 | ab | 0.5 ± 0.0 | ab | 0.2 ± 0.0 | a | 1.0 ± 0.2 | bc | 0.2 ± 0.0 | a |
| 2-Ethyl-1-hexanol | 0.5 ± 0.3 | a | 0.5 ± 0.3 | a | 0.3 ± 0.1 | a | 2.4 ± 1.2 | a | 0.4 ± 0.1 | a | 1.6 ± 0.7 | a | 0.3 ± 0.1 | a | 7.8 ± 1.6 | b | 0.9 ± 0.6 | a | 1.9 ± 1.1 | a |
| Benzaldehyde | 0.3 ± 0.2 | a | 0.1 ± 0.0 | a | 0.1 ± 0.0 | a | 0.1 ± 0.0 | a | 0.1 ± 0.1 | a | 0.2 ± 0.1 | a | 0.3 ± 0.0 | a | 2.3 ± 0.5 | b | 0.1 ± 0.0 | a | 0.0 ± 0.0 | a |
| Linalool | 0.8 ± 0.2 | a | 0.5 ± 0.1 | a | 0.6 ± 0.1 | a | 0.8 ± 0.2 | a | 0.4 ± 0.1 | a | 0.8 ± 0.4 | a | 0.4 ± 0.1 | a | 0.9 ± 0.4 | a | 0.5 ± 0.1 | a | 0.5 ± 0.1 | a |
| 1-Octanol | 1.7 ± 0.5 | de | 2.0 ± 0.2 | e | 0.5 ± 0.0 | ab | 0.4 ± 0.1 | a | 1.2 ± 0.2 | bcd | 0.3 ± 0.0 | a | 0.8 ± 0.2 | abc | 0.6 ± 0.1 | ab | 1.3 ± 0.3 | cde | 1.0 ± 0.3 | abc |
| 2-methylpropanoic acid | 1.7 ± 0.7 | a | 1.0 ± 0.2 | a | 4.9 ± 0.7 | d | 4.0 ± 0.8 | cd | 5.0 ± 1.2 | d | 1.5 ± 0.3 | a | 2.8 ± 0.6 | abc | 1.9 ± 0.5 | ab | 3.9 ± 0.8 | bcd | 2.1 ± 0.7 | abc |
| γ-butyrolactone | 1.2 ± 0.3 | a | 1.9 ± 0.4 | ab | 3.4 ± 0.7 | c | 1.8 ± 0.3 | ab | 2.3 ± 0.3 | abc | 3.2 ± 0.8 | bc | 1.6 ± 0.4 | a | 1.2 ± 0.3 | a | 2.4 ± 0.4 | abc | 1.8 ± 0.4 | a |
| Butanoic acid | 1.3 ± 0.4 | ab | 0.9 ± 0.2 | ab | 1.2 ± 0.2 | ab | 0.9 ± 0.1 | ab | 1.1 ± 0.2 | ab | 0.7 ± 0.2 | a | 1.4 ± 0.1 | ab | 0.8 ± 0.2 | a | 1.5 ± 0.4 | b | 1.3 ± 0.3 | ab |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethyl decanoate | 24.3 | ± | 2.8 | bc | 18.2 | ± | 5.8 | b | 4.0 | ± | 0.5 | a | 3.5 | ± | 1.2 | a | 8.4 | ± | 1.6 | a | 2.5 | ± | 0.4 | a | 27.6 | ± | 2.9 | c | 9.2 | ± | 2.7 | a | 19.3 | ± | 3.2 | b | 7.6 | ± | 1.6 | a |
| 3-methylbutanoic acid | 8.4 | ± | 2.0 | c | 3.7 | ± | 0.7 | a | 7.0 | ± | 1.0 | bc | 5.1 | ± | 0.8 | ab | 6.9 | ± | 1.3 | bc | 2.7 | ± | 0.4 | a | 4.4 | ± | 0.4 | ab | 3.5 | ± | 0.6 | a | 6.8 | ± | 1.2 | bc | 4.1 | ± | 0.8 | ab |
| Diethyl succinate | 21.5 | ± | 6.4 | e | 5.9 | ± | 0.9 | abcd | 9.3 | ± | 2.5 | bcd | 3.6 | ± | 0.8 | ab | 11.3 | ± | 2.2 | cd | 2.5 | ± | 0.8 | ab | 5.0 | ± | 1.3 | abc | 0.5 | ± | 0.1 | a | 12.7 | ± | 3.0 | d | 3.2 | ± | 1.0 | ab |
| Ethyl 9-decenoate | 14.5 | ± | 3.1 | e | 4.6 | ± | 0.9 | abc | 9.4 | ± | 0.7 | d | 1.4 | ± | 0.1 | a | 22.1 | ± | 0.5 | f | 2.7 | ± | 0.1 | ab | 12.8 | ± | 0.7 | e | 6.5 | ± | 0.6 | cd | 13.0 | ± | 0.0 | e | 5.5 | ± | 0.1 | bc |
| 3-methylthio-1-propanol | 2.7 | ± | 0.8 | cd | 0.6 | ± | 0.2 | a | 2.1 | ± | 0.5 | bcd | 0.5 | ± | 0.1 | a | 3.2 | ± | 0.6 | d | 0.7 | ± | 0.2 | a | 1.1 | ± | 0.3 | ab | 0.5 | ± | 0.1 | a | 1.6 | ± | 0.4 | abc | 0.5 | ± | 0.1 | a |
| β-citronellol | 0.6 | ± | 0.2 | ab | 1.0 | ± | 0.6 | b | 0.3 | ± | 0.1 | a | 0.4 | ± | 0.1 | ab | 0.4 | ± | 0.1 | ab | 0.3 | ± | 0.1 | a | 0.4 | ± | 0.1 | a | 0.3 | ± | 0.0 | a | 0.4 | ± | 0.1 | ab | 0.7 | ± | 0.2 | ab |
| ethyl phenylacetate | 0.3 | ± | 0.0 | d | 0.2 | ± | 0.0 | abc | 0.3 | ± | 0.1 | cd | 0.2 | ± | 0.0 | abc | 0.3 | ± | 0.1 | bcd | 0.1 | ± | 0.0 | a | 0.1 | ± | 0.1 | ab | 0.2 | ± | 0.0 | abc | 0.2 | ± | 0.0 | abcd | 0.3 | ± | 0.0 | bcd |
| Ethyl 4-hydroxybutanoate | 0.6 | ± | 0.2 | ab | 1.0 | ± | 0.1 | bcd | 1.3 | ± | 0.3 | cd | 0.7 | ± | 0.2 | ab | 0.9 | ± | 0.2 | abcd | 1.4 | ± | 0.3 | d | 0.5 | ± | 0.2 | ab | 0.3 | ± | 0.1 | a | 1.0 | ± | 0.2 | bcd | 0.8 | ± | 0.2 | abc |
| β-damascenone | 1.3 | ± | 0.4 | a | 1.4 | ± | 0.2 | a | 1.3 | ± | 0.4 | a | 1.6 | ± | 0.4 | a | 1.7 | ± | 0.3 | a | 1.2 | ± | 0.4 | a | 1.2 | ± | 0.3 | a | 4.5 | ± | 0.9 | b | 1.4 | ± | 0.3 | a | 1.5 | ± | 0.5 | a |
| Hexanoic acid | 11.2 | ± | 3.0 | c | 10.1 | ± | 1.1 | cb | 7.4 | ± | 1.7 | abc | 5.4 | ± | 0.9 | ab | 8.1 | ± | 1.4 | abc | 3.4 | ± | 0.7 | a | 7.4 | ± | 1.2 | abc | 4.3 | ± | 0.6 | a | 11.1 | ± | 2.4 | c | 9.6 | ± | 2.2 | cb |
| Phenyl methanol (benzyl alcohol) | 1.2 | ± | 0.4 | c | 0.3 | ± | 0.1 | a | 0.5 | ± | 0.2 | ab | 0.3 | ± | 0.1 | a | 0.8 | ± | 0.2 | bc | 0.3 | ± | 0.1 | a | 0.7 | ± | 0.2 | abc | 0.3 | ± | 0.1 | a | 0.8 | ± | 0.2 | abc | 0.4 | ± | 0.1 | ab |
| Octanoic acid | 4.8 | ± | 1.3 | bc | 5.7 | ± | 0.2 | c | 2.7 | ± | 0.9 | ab | 2.6 | ± | 0.6 | ab | 3.8 | ± | 0.5 | abc | 1.4 | ± | 0.4 | a | 3.5 | ± | 0.6 | abc | 4.6 | ± | 0.7 | bc | 5.2 | ± | 1.3 | c | 4.9 | ± | 1.2 | bc |
| 4-vinylguaiacol | 0.6 | ± | 0.2 | bcd | 0.8 | ± | 0.1 | cd | 0.2 | ± | 0.1 | a | 0.4 | ± | 0.1 | ab | 0.5 | ± | 0.1 | abcd | 0.4 | ± | 0.1 | ab | 0.3 | ± | 0.1 | ab | 0.5 | ± | 0.1 | abcd | 0.4 | ± | 0.1 | abc | 0.9 | ± | 0.2 | d |
| Ethyl hexadecanoate | 2.0 | ± | 0.5 | b | 2.3 | ± | 0.0 | bc | 1.2 | ± | 0.3 | ab | 2.3 | ± | 0.3 | bc | 3.8 | ± | 0.5 | d | 2.0 | ± | 0.5 | b | 0.7 | ± | 0.4 | a | 3.3 | ± | 0.3 | cd | 2.1 | ± | 0.1 | b | 2.3 | ± | 0.8 | bc |
| Decanoic acid | 0.2 | ± | 0.0 | bc | 0.3 | ± | 0.0 | e | 0.1 | ± | 0.0 | ab | 0.1 | ± | 0.0 | abc | 0.3 | ± | 0.0 | e | 0.1 | ± | 0.0 | a | 0.2 | ± | 0.0 | de | 0.7 | ± | 0.1 | f | 0.2 | ± | 0.0 | c | 0.2 | ± | 0.0 | cd |
| Ethyl 9-hexadecenoate | 0.3 | ± | 0.0 | a | 0.5 | ± | 0.0 | a | 0.3 | ± | 0.0 | a | 1.2 | ± | 0.1 | b | 0.3 | ± | 0.1 | a | 1.4 | ± | 0.3 | b | 0.1 | ± | 0.0 | a | 0.2 | ± | 0.0 | a | 0.3 | ± | 0.1 | a | 1.2 | ± | 0.3 | b |
| Ethyl octadecanoate | 0.2 | ± | 0.1 | a | 0.3 | ± | 0.0 | a | 0.2 | ± | 0.1 | a | 0.3 | ± | 0.0 | a | 1.1 | ± | 0.1 | c | 0.2 | ± | 0.1 | a | 0.1 | ± | 0.0 | a | 0.5 | ± | 0.1 | b | 0.3 | ± | 0.0 | a | 0.2 | ± | 0.1 | a |
| Ethyl 9-octadecenoate | 0.3 | ± | 0.0 | ab | 0.4 | ± | 0.0 | b | 0.3 | ± | 0.1 | b | 0.9 | ± | 0.0 | c | 0.3 | ± | 0.0 | ab | 0.9 | ± | 0.2 | c | 0.1 | ± | 0.0 | a | 0.1 | ± | 0.0 | a | 0.3 | ± | 0.0 | b | 0.7 | ± | 0.2 | c |
| ∑esters | 566 | | | | 397 | | | | 204 | | | | 122 | | | | 325 | | | | 83 | | | | 342 | | | | 65 | | | | 461 | | | | 227 | | | |
| ∑terpenes | 1 | | | | 2 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | |
| Totals | 637 | | | | 491 | | | | 267 | | | | 181 | | | | 404 | | | | 124 | | | | 435 | | | | 154 | | | | 550 | | | | 322 | | | |