



**Figure S1.** Dendograms, showing clustering of *Kluyveromyces marxianus* Km1, Km2, Km3 and the type strains of *Kluyveromyces marxianus* CBS1553 and *Kluyveromyces lactis* CBS845. The chromosome length polymorphism of the yeast strains was analysed by pulsed-field gel electrophoresis. Clustering of the chromosomal profiles was performed using the unweighted pair group method with arithmetic averages algorithm and the Dice's coefficient of similarity.

**Table S1.** Concentration of volatile compounds (VOC) in skyr after 7 days incubation of yeasts *Kluyveromyces marxianus* Km1, Km2 and Km3, *Pichia kudriavzevii* Pk1 and *Torulaspora delbrueckii* Td1, and in skyr controls (without added yeasts).

Compound	VOC at Day 7, $\mu\text{g}\cdot\text{kg}^{-1}$					
	Control	<i>K. marxianus</i> Km1	<i>K. marxianus</i> Km2	<i>K. marxianus</i> Km3	<i>P. kudriavzevii</i> Pk1	<i>T. delbrueckii</i> Td1
<b>Alcohols</b>						
1-Butanol	46 ± 2.8 <sup>A</sup>	30 ± 2.1 <sup>B</sup>	29 ± 4.1 <sup>B</sup>	28 ± 0.76 <sup>B</sup>	30 ± 0.07 <sup>B</sup>	30 ± 2.5 <sup>B</sup>
2-Butanol	1.8 ± 0.18 <sup>B</sup>	2.7 ± 0.26 <sup>B</sup>	2.8 ± 0.82 <sup>B</sup>	2.5 ± 0.31 <sup>B</sup>	13 ± 3.1 <sup>A</sup>	1.9 ± 0.18 <sup>B</sup>
1-Hexanol	2.4 ± 0.42 <sup>C</sup>	11 ± 1.5 <sup>AB</sup>	16 ± 4.0 <sup>A</sup>	12 ± 2.2 <sup>A</sup>	5.1 ± 0.33 <sup>BC</sup>	4.3 ± 0.65 <sup>C</sup>
3-Methyl-1-butanol	22 ± 3.4 <sup>C</sup>	701 ± 82 <sup>AB</sup>	905 ± 111 <sup>A</sup>	553 ± 57 <sup>B</sup>	127 ± 24 <sup>C</sup>	22 ± 7.6 <sup>C</sup>
3-Methyl-3-buten-1-ol	20 ± 2.5	21 ± 0.94	22 ± 2.3	22 ± 0.61	24 ± 0.46	20 ± 1.7
2-Methyl-1-propanol	1.1 ± 0.15 <sup>C</sup>	60 ± 15 <sup>AB</sup>	93 ± 30 <sup>A</sup>	31 ± 5.9 <sup>BC</sup>	11 ± 3.1 <sup>C</sup>	0.58 ± 0.15 <sup>C</sup>
1-Pentanol	8.2 ± 1.2 <sup>B</sup>	13 ± 0.53 <sup>A</sup>	14 ± 0.92 <sup>A</sup>	12 ± 0.38 <sup>A</sup>	10 ± 0.24 <sup>B</sup>	7.7 ± 1.8 <sup>B</sup>
1-Penten-3-ol	0.26 ± 0.03 <sup>C</sup>	1.4 ± 0.18 <sup>A</sup>	1.4 ± 0.17 <sup>A</sup>	1.4 ± 0.23 <sup>A</sup>	0.87 ± 0.09 <sup>B</sup>	0.46 ± 0.14 <sup>BC</sup>
2-Phenylethanol	0.04 ± 0.05 <sup>B</sup>	0.44 ± 0.22 <sup>AB</sup>	0.65 ± 0.14 <sup>A</sup>	0.24 ± 0.10 <sup>AB</sup>	0.34 ± 0.08 <sup>AB</sup>	0.11 ± 0.16 <sup>B</sup>
1-Propanol	0.38 ± 0.05 <sup>C</sup>	6.5 ± 0.84 <sup>A</sup>	7.3 ± 1.2 <sup>A</sup>	3.7 ± 0.35 <sup>B</sup>	0.49 ± 0.10 <sup>C</sup>	0.35 ± 0.07 <sup>C</sup>
2-Propanol	1.2 ± 0.07 <sup>B</sup>	1.5 ± 0.43 <sup>AB</sup>	1.04 ± 0.10 <sup>B</sup>	1.03 ± 0.14 <sup>B</sup>	3.1 ± 1.1 <sup>A</sup>	0.70 ± 0.18 <sup>B</sup>
1-Octanol	3.8 ± 0.64 <sup>B</sup>	8.5 ± 0.56 <sup>A</sup>	8.8 ± 1.3 <sup>A</sup>	8.5 ± 0.61 <sup>A</sup>	5.6 ± 0.29 <sup>B</sup>	4.5 ± 1.1 <sup>B</sup>
<b>Aldehydes</b>						
Butanal	1.1 ± 0.11 <sup>B</sup>	2.3 ± 0.39 <sup>A</sup>	2.2 ± 0.26 <sup>A</sup>	1.8 ± 0.11 <sup>A</sup>	0.58 ± 0.06 <sup>B</sup>	0.46 ± 0.12 <sup>B</sup>
Heptanal	2.4 ± 0.19 <sup>AB</sup>	3.7 ± 0.60 <sup>A</sup>	3.9 ± 0.32 <sup>A</sup>	2.6 ± 0.52 <sup>AB</sup>	1.9 ± 0.20 <sup>B</sup>	1.6 ± 0.83 <sup>B</sup>
Hexanal	1.7 ± 0.26 <sup>BC</sup>	4.2 ± 0.73 <sup>AB</sup>	5.5 ± 0.78 <sup>A</sup>	3.4 ± 1.1 <sup>ABC</sup>	1.2 ± 0.19 <sup>C</sup>	1.1 ± 0.87 <sup>C</sup>
2-Methylbutanal	2.8 ± 0.16 <sup>C</sup>	283 ± 6.1 <sup>A</sup>	239 ± 17 <sup>B</sup>	236 ± 20 <sup>B</sup>	1.3 ± 0.07 <sup>C</sup>	2.8 ± 0.15 <sup>C</sup>
3-Methylbutanal	4.2 ± 0.26 <sup>D</sup>	128 ± 11 <sup>AB</sup>	101 ± 16 <sup>B</sup>	150 ± 20 <sup>A</sup>	36 ± 3.3 <sup>C</sup>	3.6 ± 0.52 <sup>D</sup>
3-Methyl-2-butenal	3.6 ± 0.07 <sup>B</sup>	4.7 ± 0.39 <sup>A</sup>	4.9 ± 0.21 <sup>A</sup>	4.7 ± 0.04 <sup>A</sup>	3.6 ± 0.09 <sup>B</sup>	3.2 ± 0.54 <sup>B</sup>
2-Methylpropanal	5.02 ± 0.21 <sup>C</sup>	231 ± 7.8 <sup>A</sup>	229 ± 8.3 <sup>A</sup>	156 ± 11 <sup>B</sup>	5.4 ± 0.25 <sup>C</sup>	4.9 ± 0.33 <sup>C</sup>
Trans-2-Decenal	2.2 ± 0.38 <sup>C</sup>	11 ± 2.7 <sup>A</sup>	10 ± 4.1 <sup>AB</sup>	7.9 ± 1.3 <sup>ABC</sup>	3.5 ± 0.18 <sup>BC</sup>	3.6 ± 2.1 <sup>ABC</sup>
<b>Esters</b>						
Butyl acetate	0.57 ± 0.08 <sup>AB</sup>	2.3 ± 1.01 <sup>AB</sup>	3.9 ± 1.9 <sup>A</sup>	1.7 ± 1.3 <sup>AB</sup>	0.40 ± 0.01 <sup>AB</sup>	0.14 ± 0.06 <sup>B</sup>
Ethyl acetate	nd <sup>C</sup>	316 ± 8.4 <sup>A</sup>	320 ± 11 <sup>A</sup>	296 ± 19 <sup>AB</sup>	279 ± 11 <sup>B</sup>	nd <sup>C</sup>
Ethyl butyrate	0.95 ± 0.07 <sup>C</sup>	4.1 ± 0.81 <sup>B</sup>	6.3 ± 1.2 <sup>A</sup>	2.7 ± 0.48 <sup>BC</sup>	1.03 ± 0.13 <sup>C</sup>	0.54 ± 0.08 <sup>C</sup>
Ethyl hexanoate	0.05 ± 0.02	0.05 ± 0.07	0.39 ± 0.30	0.09 ± 0.08	nd	0.04 ± 0.01

Ethyl octanoate	nd <sup>B</sup>	0.25 ± 0.12 <sup>AB</sup>	0.33 ± 0.14 <sup>A</sup>	0.17 ± 0.06 <sup>AB</sup>	nd <sup>B</sup>	0.04 ± 0.08 <sup>B</sup>
Ethyl formate	nd <sup>C</sup>	1.62 ± 0.18 <sup>A</sup>	2.04 ± 0.30 <sup>A</sup>	1.01 ± 0.14 <sup>B</sup>	0.32 ± 0.03 <sup>C</sup>	0.28 ± 0.08 <sup>C</sup>
Ethyl lactate	0.05 ± 0.06 <sup>B</sup>	0.50 ± 0.08 <sup>AB</sup>	1.01 ± 0.39 <sup>A</sup>	0.46 ± 0.07 <sup>AB</sup>	0.27 ± 0.02 <sup>B</sup>	0.27 ± 0.01 <sup>B</sup>
Ethyl propionate	nd <sup>B</sup>	0.58 ± 0.35 <sup>AB</sup>	1.1 ± 0.70 <sup>A</sup>	0.02 ± 0.03 <sup>B</sup>	0.12 ± 0.02 <sup>AB</sup>	nd <sup>B</sup>
Hexyl acetate	0.19 ± 0.02 <sup>AB</sup>	0.25 ± 0.09 <sup>AB</sup>	0.39 ± 0.12 <sup>A</sup>	0.24 ± 0.06 <sup>AB</sup>	0.13 ± 0.01 <sup>B</sup>	0.13 ± 0.01 <sup>B</sup>
2-Methylpropyl acetate	1.8 ± 0.34	0.89 ± 0.68	1.4 ± 0.95	0.46 ± 0.42	0.82 ± 0.23	0.91 ± 0.33
3-Methylbutyl acetate	0.10 ± 0.03 <sup>B</sup>	9.3 ± 6.1 <sup>A</sup>	17 ± 9.4 <sup>A</sup>	5.9 ± 4.8 <sup>AB</sup>	0.24 ± 0.02 <sup>B</sup>	0.13 ± 0.01 <sup>B</sup>
4-Pentenyl acetate	0.15 ± 0.01 <sup>B</sup>	2.5 ± 0.27 <sup>AB</sup>	5.8 ± 2.8 <sup>A</sup>	1.1 ± 0.20 <sup>AB</sup>	0.21 ± 0.01 <sup>B</sup>	0.19 ± 0.01 <sup>B</sup>
Pentyl acetate	0.54 ± 0.06	0.64 ± 0.17	0.78 ± 0.28	0.49 ± 0.20	0.38 ± 0.02	0.28 ± 0.04
2-Phenylethyl acetate	0.04 ± 0.01 <sup>AB</sup>	0.27 ± 0.13 <sup>AB</sup>	0.47 ± 0.26 <sup>A</sup>	0.12 ± 0.14 <sup>AB</sup>	0.02 ± 0.02 <sup>B</sup>	0.01 ± 0.01 <sup>B</sup>
<b>Ketones</b>						
2,3-Butanedione	512 ± 41 <sup>A</sup>	125 ± 19 <sup>C</sup>	130 ± 13 <sup>C</sup>	173 ± 43 <sup>C</sup>	381 ± 39 <sup>B</sup>	392 ± 39 <sup>B</sup>
2-Butanone	169 ± 12	191 ± 10	169 ± 22	181 ± 14	154 ± 2.0	168 ± 16
2-Heptanone	53 ± 1.1 <sup>B</sup>	57 ± 1.2 <sup>A</sup>	57 ± 1.7 <sup>A</sup>	55 ± 0.38 <sup>AB</sup>	53 ± 0.74 <sup>B</sup>	51 ± 5.9
3-Hydroxy-2-butanone	149 ± 26	163 ± 11	161 ± 28	178 ± 13	191 ± 11	182 ± 11
2-Nonanone	6.3 ± 1.1 <sup>AB</sup>	13 ± 3.7 <sup>A</sup>	11 ± 3.1 <sup>A</sup>	7.3 ± 0.44 <sup>AB</sup>	3.4 ± 0.47 <sup>B</sup>	2.9 ± 0.41 <sup>B</sup>
2-Propanone	112 ± 3.5	92 ± 18	76 ± 4.5	92 ± 1.6	83 ± 11	83 ± 13

<sup>1</sup> Relative abundance of each compound was calculated from ratio of the peak area to that of the internal standard (4-methyl-1-pentanol). Different subscripts denote statistically different values ( $p < 0.05$ ) within a raw determined by the one-way ANOVA (Tukey's post-hoc analysis).

**Table S2.** Concentration of volatile compounds (VOC) in skyr after 14 days incubation of yeasts *Kluyveromyces marxianus* Km1, Km2 and Km3, *Pichia kudriavzevii* Pk1 and *Torulaspora delbrueckii* Td1, and in skyr controls (without added yeasts).

Compound	VOC at Day 14, $\mu\text{g}\cdot\text{kg}^{-1}$					
	Control	<i>K. marxianus</i> Km1	<i>K. marxianus</i> Km2	<i>K. marxianus</i> Km3	<i>P. kudriavzevii</i> Pk1	<i>T. delbrueckii</i> Td1
<b>Alcohols</b>						
1-Butanol	38 ± 2.4 <sup>A</sup>	24. ± 3.1 <sup>B</sup>	23 ± 2.5 <sup>B</sup>	24 ± 1.2 <sup>B</sup>	18 ± 1.9 <sup>B</sup>	21 ± 2.1 <sup>B</sup>
2-Butanol	1.4 ± 0.08 <sup>C</sup>	11 ± 3.1 <sup>B</sup>	15 ± 0.39 <sup>B</sup>	10 ± 1.9 <sup>B</sup>	31 ± 1.7 <sup>A</sup>	1.3 ± 0.15 <sup>C</sup>
1-Hexanol	4.4 ± 0.32 <sup>B</sup>	39 ± 1.6 <sup>A</sup>	36 ± 2.6 <sup>A</sup>	36 ± 0.89 <sup>A</sup>	5.9 ± 1.1 <sup>B</sup>	4.02 ± 0.15 <sup>B</sup>
3-Methyl-1-butanol	17 ± 0.18 <sup>C</sup>	1522 ± 53 <sup>A</sup>	1669 ± 116 <sup>A</sup>	1610 ± 164 <sup>A</sup>	374 ± 9.1 <sup>B</sup>	32 ± 2.7
3-Methyl-3-buten-1-ol	29 ± 0.61 <sup>A</sup>	26 ± 0.44 <sup>AB</sup>	24 ± 0.26 <sup>B</sup>	26 ± 0.95 <sup>AB</sup>	26 ± 0.76 <sup>AB</sup>	24 ± 2.1 <sup>B</sup>
2-Methyl-1-propanol	0.73 ± 0.08 <sup>B</sup>	417 ± 66 <sup>A</sup>	482 ± 34 <sup>A</sup>	455 ± 45 <sup>A</sup>	45 ± 16 <sup>B</sup>	1.1 ± 0.10 <sup>B</sup>
1-Pentanol	7.3 ± 0.56 <sup>B</sup>	20 ± 0.68 <sup>A</sup>	19 ± 0.38 <sup>A</sup>	20 ± 2.1 <sup>A</sup>	9.5 ± 0.73 <sup>B</sup>	7.5 ± 0.79 <sup>B</sup>
1-Penten-3-ol	0.26 ± 0.02 <sup>C</sup>	2.1 ± 0.43 <sup>A</sup>	1.6 ± 0.16 <sup>AB</sup>	1.9 ± 0.35 <sup>A</sup>	1.4 ± 0.14 <sup>AB</sup>	0.79 ± 0.28 <sup>BC</sup>
2-Phenylethanol	0.18 ± 0.16 <sup>B</sup>	1.9 ± 0.88 <sup>A</sup>	1.5 ± 0.16 <sup>AB</sup>	1.3 ± 0.21 <sup>AB</sup>	0.87 ± 0.41 <sup>AB</sup>	0.39 ± 0.32 <sup>B</sup>
1-Propanol	0.28 ± 0.10 <sup>B</sup>	15 ± 6.9 <sup>A</sup>	21 ± 2.9 <sup>A</sup>	19 ± 8.1 <sup>A</sup>	0.92 ± 0.23 <sup>B</sup>	0.30 ± 0.06 <sup>B</sup>
2-Propanol	0.85 ± 0.48 <sup>B</sup>	3.3 ± 2.2 <sup>B</sup>	3.3 ± 1.2 <sup>B</sup>	2.5 ± 0.34 <sup>B</sup>	8.3 ± 0.37 <sup>A</sup>	0.58 ± 0.05 <sup>B</sup>
1-Octanol	4.5 ± 0.51 <sup>B</sup>	18 ± 2.3 <sup>A</sup>	15 ± 0.88 <sup>A</sup>	14 ± 0.48 <sup>A</sup>	6.2 ± 0.71 <sup>B</sup>	4.2 ± 0.30 <sup>B</sup>
<b>Aldehydes</b>						
Butanal	0.44 ± 0.08	0.92 ± 0.41	0.88 ± 0.23	0.81 ± 0.17	0.50 ± 0.13	0.35 ± 0.12
Heptanal	1.7 ± 0.14 <sup>AB</sup>	1.8 ± 0.28 <sup>AB</sup>	1.9 ± 0.31 <sup>A</sup>	1.7 ± 0.14 <sup>ABC</sup>	1.1 ± 0.23 <sup>BC</sup>	0.98 ± 0.12 <sup>C</sup>
Hexanal	1.1 ± 0.11 <sup>AB</sup>	2.6 ± 0.95 <sup>AB</sup>	2.9 ± 1.2 <sup>A</sup>	2.6 ± 0.45 <sup>AB</sup>	1.03 ± 0.34 <sup>AB</sup>	0.56 ± 0.06 <sup>B</sup>
2-Methylbutanal	2.3 ± 0.10 <sup>BC</sup>	19 ± 6.1 <sup>A</sup>	16 ± 4.6 <sup>AB</sup>	28 ± 8.1 <sup>A</sup>	0.58 ± 0.41 <sup>C</sup>	2.5 ± 0.12 <sup>BC</sup>
3-Methylbutanal	3.2 ± 0.19 <sup>B</sup>	14 ± 1.9 <sup>A</sup>	13 ± 2.0 <sup>A</sup>	17 ± 3.3 <sup>A</sup>	16 ± 1.6 <sup>A</sup>	4.04 ± 0.24 <sup>B</sup>
3-Methyl-2-butenal	2.7 ± 0.09 <sup>A</sup>	2.2 ± 0.16 <sup>BC</sup>	1.9 ± 0.22 <sup>C</sup>	2.0 ± 0.17 <sup>C</sup>	2.6 ± 0.08 <sup>AB</sup>	2.03 ± 0.14 <sup>C</sup>
2-Methylpropanal	4.4 ± 0.25 <sup>B</sup>	35 ± 15 <sup>AB</sup>	32 ± 14 <sup>AB</sup>	57 ± 18 <sup>A</sup>	5.7 ± 0.47 <sup>B</sup>	5.1 ± 0.23 <sup>B</sup>
Trans-2-Decenal	1.8 ± 0.78 <sup>B</sup>	9.3 ± 4.3 <sup>A</sup>	6.9 ± 0.54 <sup>AB</sup>	6.8 ± 1.5 <sup>AB</sup>	2.8 ± 1.1 <sup>B</sup>	3.2 ± 1.3 <sup>B</sup>
<b>Esters</b>						
Butyl acetate	0.57 ± 0.12 <sup>B</sup>	1.8 ± 1.5 <sup>AB</sup>	4.9 ± 1.5 <sup>A</sup>	2.2 ± 2.1 <sup>AB</sup>	0.95 ± 0.41 <sup>AB</sup>	0.10 ± 0.01 <sup>B</sup>
Ethyl acetate	nd <sup>B</sup>	306 ± 16 <sup>A</sup>	317 ± 16 <sup>A</sup>	296 ± 3.9 <sup>A</sup>	311 ± 12 <sup>A</sup>	nd <sup>B</sup>
Ethyl butyrate	1.03 ± 0.16 <sup>B</sup>	27 ± 3.8 <sup>A</sup>	38 ± 7.2 <sup>A</sup>	26 ± 9.8 <sup>A</sup>	1.8 ± 0.45 <sup>B</sup>	0.50 ± 0.02 <sup>B</sup>
Ethyl hexanoate	0.06 ± 0.01 <sup>B</sup>	8.2 ± 2.2 <sup>AB</sup>	12 ± 5.3 <sup>A</sup>	7.6 ± 4.2 <sup>AB</sup>	0.01 ± 0.02 <sup>B</sup>	0.04 ± 0.01 <sup>B</sup>

Ethyl octanoate	nd <sup>B</sup>	8.5 ± 6.5 <sup>A</sup>	21 ± 11 <sup>A</sup>	4.5 ± 2.2 <sup>A</sup>	nd <sup>B</sup>	nd <sup>B</sup>
Ethyl formate	0.33 ± 0.02 <sup>B</sup>	6.4 ± 3.6 <sup>A</sup>	7.9 ± 0.75 <sup>A</sup>	6.2 ± 1.1 <sup>A</sup>	0.52 ± 0.05 <sup>B</sup>	0.34 ± 0.01 <sup>B</sup>
Ethyl lactate	0.25 ± 0.04 <sup>B</sup>	9.4 ± 2.1 <sup>A</sup>	9.7 ± 1.2 <sup>A</sup>	7.9 ± 2.03 <sup>A</sup>	0.56 ± 0.31 <sup>B</sup>	0.42 ± 0.04 <sup>B</sup>
Ethyl propionate	nd <sup>B</sup>	1.8 ± 1.1 <sup>AB</sup>	6.7 ± 4.9 <sup>A</sup>	0.77 ± 0.46 <sup>AB</sup>	4.3 ± 2.4 <sup>A</sup>	nd <sup>B</sup>
Hexyl acetate	0.17 ± 0.01 <sup>B</sup>	0.77 ± 0.18 <sup>AB</sup>	1.2 ± 0.40 <sup>A</sup>	0.76 ± 0.40 <sup>AB</sup>	0.20 ± 0.03 <sup>B</sup>	0.15 ± 0.01 <sup>B</sup>
2-Methylpropyl acetate	2.3 ± 0.18	1.53 ± 1.02	5.5 ± 4.5	3.1 ± 3.4	0.87 ± 0.57	0.73 ± 0.18
3-Methylbutyl acetate	0.05 ± 0.01 <sup>B</sup>	18 ± 10 <sup>A</sup>	42 ± 23 <sup>A</sup>	26 ± 22 <sup>A</sup>	2.1 ± 1.1 <sup>AB</sup>	0.14 ± 0.01 <sup>B</sup>
4-Pentenyl acetate	0.19 ± 0.01 <sup>B</sup>	2.3 ± 1.2 <sup>AB</sup>	7.2 ± 2.5 <sup>A</sup>	1.1 ± 0.03 <sup>AB</sup>	0.24 ± 0.05 <sup>B</sup>	0.07 ± 0.01 <sup>B</sup>
Pentyl acetate	0.60 ± 0.02	0.80 ± 0.24	1.3 ± 0.43	0.79 ± 0.44	0.47 ± 0.14	0.30 ± 0.01
2-Phenylethyl acetate	0.04 ± 0.01 <sup>B</sup>	1.2 ± 0.44 <sup>AB</sup>	2.7 ± 1.6 <sup>A</sup>	1.3 ± 1.1 <sup>AB</sup>	0.07 ± 0.05 <sup>B</sup>	nd <sup>B</sup>
<b>Ketones</b>						
2,3-Butanedione	564 ± 14 <sup>A</sup>	67 ± 4.1 <sup>D</sup>	77 ± 11 <sup>D</sup>	71 ± 8.1 <sup>D</sup>	128 ± 12 <sup>C</sup>	351 ± 28 <sup>B</sup>
2-Butanone	117 ± 5.9	86 ± 21	89 ± 31	106 ± 26	67 ± 5.2	121 ± 15
2-Heptanone	49 ± 0.96 <sup>B</sup>	53 ± 1.5 <sup>AB</sup>	52 ± 0.12 <sup>AB</sup>	50 ± 0.53 <sup>AB</sup>	51 ± 1.1 <sup>AB</sup>	54 ± 2.9 <sup>A</sup>
3-Hydroxy-2-butanone	196 ± 11 <sup>A</sup>	123 ± 10 <sup>BC</sup>	111 ± 18 <sup>C</sup>	136 ± 16 <sup>BC</sup>	156 ± 10 <sup>ABC</sup>	162 ± 11
2-Nonanone	1.26 ± 0.29 <sup>C</sup>	21 ± 4.5 <sup>A</sup>	22 ± 5.2 <sup>A</sup>	17 ± 1.6 <sup>AB</sup>	8.6 ± 7.4 <sup>ABC</sup>	3.2 ± 1.4 <sup>BC</sup>
2-Propanone	84 ± 32	39 ± 19	35 ± 15	44 ± 13	52 ± 5.01	75 ± 3.8

<sup>1</sup> Relative abundance of each compound was calculated from ratio of the peak area to that of the internal standard (4-methyl-1-pentanol). Different subscripts denote statistically different values ( $p < 0.05$ ) within a raw determined by the one-way ANOVA (Tukey's post-hoc analysis).

**Table S3.** Fermentation and assimilation of lactose, glucose and galactose by yeasts *Kluyveromyces marxianus* Km1, Km2 and Km3, *Pichia kudriavzevii* Pk1 and *Torulaspora delbrueckii* Td1.

Yeasts	Fermentation <sup>a</sup>			Assimilation <sup>b</sup>		
	Lactose	Glucose	Galactose	Lactose	Glucose	Galactose
<i>K. marxianus</i> Km1	+	+	+	+	+	+
<i>K. marxianus</i> Km2	+	+	+	+	+	+
<i>K. marxianus</i> Km3	+	+	+	+	+	+
<i>P. kudriavzevii</i> Pk1	-	+	-	-	+	-
<i>T. delbrueckii</i> Td1	-	+	-	-	+	-

<sup>a</sup> Results are given as + (positive, Durham tube was filled with gas and pH was reduced) and – (negative, no production of air and no changes in pH).

<sup>b</sup> Results are given as + (positive, turbidity was observed as 2+ and 3+ on Wickerhams card), and – (negative, no growth)