

Table S1. pH change during primary fermentation into Ale and Lager beers using *S. cerevisiae* 41CM, *S. cerevisiae* S-04 and *S. pastorianus* W-34/70 starters.

| Days | Ale | | Lager | |
|------|------------------------|------------------------|------------------------|------------------------|
| | 41CM | S-04 | 41CM | W-34/70 |
| 0 | 5.71±0.05 ^a | 5.69±0.05 ^a | 5.68±0.04 ^a | 5.69±0.02 ^a |
| 3 | 5.10±0.04 ^a | 5.08±0.06 ^a | 5.18±0.02 ^a | 5.20±0.02 ^a |
| 6 | 4.81±0.03 ^a | 4.88±0.05 ^a | 4.77±0.05 ^a | 4.80±0.03 ^a |
| 9 | 4.51±0.06 ^a | 4.52±0.02 ^a | 4.55±0.03 ^a | 4.57±0.03 ^a |
| 12 | 4.49±0.02 ^a | 4.48±0.03 ^a | 4.52±0.04 ^a | 4.51±0.06 ^a |
| 15 | 4.43±0.03 ^a | 4.43±0.02 ^a | 4.50±0.02 ^a | 4.48±0.04 ^a |

Table S2. Ethanol (% *v/v*) evolution during primary fermentation in Ale and Lager beers using *S. cerevisiae* 41CM, *S. cerevisiae* S-04 and *S. pastorianus* W-34/70 starters.

| Days | Ale | | Lager | |
|------|------------------------|------------------------|------------------------|------------------------|
| | 41CM | S-04 | 41CM | W-34/70 |
| 0 | 0.00±0.00 ^a | 0.00±0.00 ^a | 0.00±0.00 ^a | 0.00±0.00 ^a |
| 3 | 3.48±0.06 ^a | 3.59±0.07 ^a | 3.34±0.07 ^a | 3.18±0.05 ^a |
| 6 | 3.86±0.07 ^a | 3.90±0.05 ^a | 3.47±0.06 ^a | 3.33±0.03 ^b |
| 9 | 4.18±0.08 ^a | 4.43±0.08 ^b | 3.58±0.04 ^a | 3.89±0.07 ^b |
| 12 | 4.19±0.06 ^a | 4.46±0.03 ^b | 3.90±0.08 ^a | 4.38±0.05 ^b |
| 15 | 4.19±0.02 ^a | 4.46±0.04 ^b | 4.03±0.07 ^a | 4.49±0.06 ^b |

Table S3. Yeast viable cells count (log CFU/mL) during primary fermentation into Ale and Lager beers.

| Viable count (log CFU/mL) | Fermenting time (days) | | | | | |
|------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | 0 | 3 | 6 | 9 | 12 | 15 |
| 41CM Ale | 6.47±0.01 ^d | 7.87±0.03 ^a | 7.83±0.02 ^a | 7.78±0.02 ^b | 7.67±0.01 ^c | 7.63±0.02 ^c |
| S-04 Ale | 6.06±0.05 ^d | 7.14±0.03 ^c | 7.43±0.03 ^b | 7.81±0.01 ^a | 7.78±0.01 ^a | 7.75±0.04 ^a |
| 41CM Lager | 6.32±0.02 ^d | 7.69±0.01 ^a | 7.65±0.02 ^a | 7.09±0.04 ^b | 7.01±0.03 ^c | 7.05±0.03 ^c |
| W-34/70 Lager | 6.24±0.03 ^d | 7.41±0.01 ^a | 7.17±0.03 ^b | 7.08±0.04 ^c | 7.06±0.02 ^c | 7.02±0.02 ^c |