

Supplemental Material

Sample	Absorbance (310 nm)	POF Result
Media Blank	4.59	
Ferulic Acid Control	10.7	
Postive control	6.01	Positive
Negative control	11.49	Negative
CBS1513	11.25	Negative
W3470	11.34	Negative
CBS12357	6.33	Positive
RB-1141	10.88	Negative
RB-1186	11.22	Negative
RB-2215	11.11	Negative
RB-2251	11.13	Negative
RB-2403	11.13	Negative

Table S1: Summary of absorbance readings (310 nm) for the detection of trans-ferulic acid for different strains to determine Phenolic-Off Flavour phenotype.

	W3470	CBS1513	RB-1141	RB-1186	RB-2215	RB-2251	RB-2403
Acetaldehyde (ppm)	22 ± 15.1	17 ± 3.6	9 ± 1.9	3 ± 1.2	22 ± 8.2	20 ± 10.8	16 ± 4.3
DMS (ppb)	54 ± 3.5	56 ± 4.2	41 ± 3.0	34 ± 12.6	52 ± 5.2	54 ± 4.8	67 ± 6.2
Acetone (ppm)	1.9 ± 1.54	0.7 ± 0.25	1.0 ± 1.00	0.7 ± 0.05	1.7 ± 2.09	0.9 ± 0.80	1.5 ± 1.68
2,3-butanedione (ppb)	80 ± 8.3	90 ± 12.1	75 ± 7.3	62 ± 5.3	89 ± 5.8	82 ± 6.9	100 ± 6.9
Ethyl acetate (ppm)	40 ± 0.9	19 ± 0.8	34 ± 1.1	35 ± 1.9	36 ± 1.4	28 ± 0.4	26 ± 0.3
Isobutyl acetate (ppb)	83 ± 7.5	64 ± 4.8	113 ± 8.7	94 ± 15.5	144 ± 16.8	80 ± 7.2	68 ± 6.5
Isoamyl acetate (ppb)	1412 ± 158.6	657 ± 86.2	1289 ± 222.1	1045 ± 258.1	1694 ± 361.2	1054 ± 149.3	740 ± 139.3
Phenylethyl acetate (ppb)	835 ± 62.4	592 ± 42.0	876 ± 44.7	646 ± 28.8	1010 ± 50.6	576 ± 54.4	353 ± 62.1
Ethyl propanoate (ppb)	235 ± 27.2	348 ± 44.3	92 ± 6.7	109 ± 5.8	78 ± 9.2	167 ± 2.7	108 ± 3.3
Ethyl butanoate (ppb)	111 ± 8.1	127 ± 7.5	133 ± 7.7	129 ± 8.0	114 ± 9.7	99 ± 11.9	96 ± 10.9
Ethyl hexanoate (ppb)	180 ± 11.5	179 ± 27.7	202 ± 34.1	169 ± 26.5	161 ± 26.1	135 ± 16.8	134 ± 22.9
Ethyl octanoate (ppb)	236 ± 20.1	235 ± 27.3	296 ± 51.8	271 ± 20.1	192 ± 27.4	157 ± 22.3	186 ± 15.0
Ethyl decanoate (ppb)	94 ± 3.5	42 ± 8.3	115 ± 10.7	100 ± 29.3	90 ± 13.8	64 ± 3.4	72 ± 9.7
N-propanol (ppm)	22 ± 1.8	25 ± 3.1	22 ± 1.6	28 ± 1.2	37 ± 1.7	32 ± 2.3	26 ± 2.5
Isobutanol (ppm)	30 ± 0.5	48 ± 2.6	39 ± 0.9	41 ± 2.0	46 ± 2.1	42 ± 1.1	41 ± 0.9
Active amyl alcohol (ppm)	28 ± 0.5	36 ± 1.5	33 ± 0.7	28 ± 0.5	37 ± 0.5	34 ± 0.3	31 ± 0.6
Isoamyl alcohol (ppm)	72 ± 2.2	81 ± 5.9	90 ± 3.0	86 ± 1.5	108 ± 2.5	103 ± 3.5	86 ± 2.6

Table S2: Summary of values obtained by GC-headspace analysis of all volatile compounds measured during beer fermentations. Values are shown plus/minus one standard deviation from quadruplicate fermentations.