Table 1. Formation of benzoic acid and derivatives (µM) during the *in vitro* fermentation (0 to 24h). A letter after the numerical value indicates significant differences ($p<0.05$) between the samples within a time point.

Time	Benzoic acid (µM)					4-Hydroxybenzoic acid (µM)				
(h)	Native	Ground	Xyn	Xyn+FAE	Control	Native	Ground	Xyn	Xyn+FAE	Control
0	2.39^{ab}	3.48^{a}	3.01^{a}	3.37^{a}	1.28^{b}	1.96^{a}	2.42^{a}	2.45^{a}	1.99^{a}	0.83^{b}
2	5.25^{ab}	5.61^{ab}	4.38^{b}	5.92^{a}	3.46^{b}	4.61^{a}	4.55^{a}	4.73^{a}	3.87^{a}	1.52^{b}
4	4.07^{bc}	2.72^{c}	5.64^{ab}	6.06^{a}	4.16^{abc}	4.26^{a}	4.02^{a}	4.22^{a}	3.33^{b}	1.68^{c}
6	5.36	3.54	6.04	6.49	4.31	3.61^{a}	3.67^{a}	3.44^{a}	3.19^{a}	1.70^{b}
8	8.17	6.26	7.01	5.71	4.75	3.26^{a}	3.13^{a}	2.95^{ab}	2.06^{b}	1.96^{b}
24	7.64^{ab}	10.82^{a}	6.43^{ab}	6.78^{ab}	5.26^{b}	0.92^{b}	1.45^{a}	0.72^{b}	0.59^{b}	1.36^{a}

Time	3,4-Dihydroxybenzoic acid (µM)					3,4-Dihydroxytoluene (µM)				
(h)	Native	Ground	Xyn	Xyn+FAE	Control	Native	Ground	Xyn	Xyn+FAE	Control
0	2.21^{bc}	2.88^{ab}	3.51^{a}	3.14^{ab}	1.50^{c}	0.21^{ab}	0.28^{a}	0.17^{ab}	0.13^{ab}	0.10^{b}
2	2.17	2.30	2.42	2.23	1.75	0.29	0.30	0.27	0.31	0.23
4	2.01^{ab}	2.09^{a}	2.24^{a}	2.17^{a}	1.70^{b}	0.33^{bc}	0.37^{bc}	0.52^{ab}	0.68^{a}	0.23^{c}
6	1.69	1.77	1.97	1.78	1.65	0.64^{ab}	0.51^{bc}	0.75^{ab}	1.04^{a}	0.20^{c}
8	1.58	1.20	1.69	1.20	2.40	0.97^{a}	0.88^{ab}	1.02^{a}	0.83^{ab}	0.20^{b}
24	0.84^{b}	1.01^{ab}	0.88^{b}	0.83^{b}	1.30^{a}	0.87^{bc}	1.91^{a}	1.35^{ab}	1.27^{b}	0.61^{c}

Table 2. Evolution of pH during the *in vitro* fermentation (0 to 24h) of aleurone fractions. A letter after the numerical value indicates significant differences ($p<0.05$) between the samples within a time point.

Time (h)	Native	Ground	Xyn	Xyn+FAE	Control
0	7.30 ± 0.01^{ab}	7.35 ± 0.05^{a}	7.30 ± 0.03^{ab}	7.04 ± 0.02^{c}	7.24 ± 0.01^{b}
2	6.87 ± 0.06^{b}	6.88 ± 0.04^{b}	6.69 ± 0.04^{c}	6.55 ± 0.05^{c}	7.13 ± 0.07^{a}
4	6.75 ± 0.01^{b}	6.73 ± 0.01^{b}	6.64 ± 0.02^{bc}	6.56 ± 0.01^{c}	7.28 ± 0.11^{a}
6	6.70 ± 0.03^{b}	6.66 ± 0.02^{b}	6.64 ± 0.03^{b}	6.63 ± 0.02^{b}	7.21 ± 0.02^{a}
8	6.76 ± 0.01^{b}	6.64 ± 0.01^{c}	6.58 ± 0.02^{c}	6.55 ± 0.04^{c}	7.24 ± 0.07^{a}
24	6.35 ± 0.00^{c}	6.43 ± 0.02^{b}	6.45 ± 0.00^{b}	6.42 ± 0.01^{b}	7.07 ± 0.02^{a}