

Supplementary Table 2. - Short chain fatty acids (acetate, propionate and butyrate) quantification at 5, 8, 10, 24 and 48h, in faecal donor 3. Different letters (a,b,c,d) denote significant differences ($p<0.05$) between different times (h) within the same ingredient and measurement (Molar proportions, ratio A:P, and total molar concentration). Different numbers (1,2,3) denote differences in total molar concentration, between different ingredients, within the same time.

Ingredient		Time (h)				
		5	8	10	24	48
MBM	Molar Proportions (%)	Average ± SD	Average ± SD	Average ± SD	Average ± SD	Average ± SD
	Acetate	90.79 ± 0.55 ^a	87.97 ± 4.73 ^a	88.08 ± 6.64 ^a	89.74 ± 1.15 ^a	85.22 ± 6.10 ^a
	Propionate	8.23 ± 0.36 ^a	9.37 ± 2.90 ^a	6.34 ± 6.58 ^a	7.95 ± 1.16 ^a	14.16 ± 6.48 ^a
	Butyrate	0.98 ± 0.18 ^a	2.66 ± 1.83 ^a	0.59 ± 0.06 ^a	2.31 ± 0.00 ^a	0.62 ± 0.38 ^a
	Ratio A:P	11.05 ± 0.56 ^a	9.95 ± 3.59 ^a	13.90 ± 1.51 ^a	11.42 ± 0.35 ^a	6.83 ± 3.55 ^a
LBG	Total Molar Concentration (mM)	6.54 ± 3.72 ^{a/12}	10.28 ± 0.28 ^{a/123}	8.12 ± 1.28 ^{a/3}	6.68 ± 2.52 ^{a/3}	12.34 ± 3.27 ^{a/2}
	Molar Proportions (%)					
	Acetate	91.88 ± 0.75 ^a	89.47 ± 0.22 ^a	72.97 ± 0.71 ^b	76.85 ± 3.37 ^b	74.42 ± 0.13 ^b
	Propionate	7.22 ± 0.68 ^b	9.72 ± 0.40 ^b	26.52 ± 0.65 ^a	22.43 ± 3.48 ^a	25.22 ± 0.11 ^a
	Butyrate	0.90 ± 0.07 ^a	0.82 ± 0.18 ^a	0.51 ± 0.06 ^{ab}	0.72 ± 0.11 ^{ab}	0.37 ± 0.02 ^b
MhdP	Ratio A:P	12.79 ± 1.32 ^a	9.22 ± 0.40 ^b	2.75 ± 0.09 ^c	3.48 ± 0.69 ^c	2.95 ± 0.02 ^c
	Total Molar Concentration (mM)	7.23 ± 0.77 ^{c/12}	9.05 ± 1.92 ^{c/23}	8.00 ± 0.74 ^{c/3}	36.17 ± 1.85 ^{b/1}	53.52 ± 2.27 ^{a/1}
	Molar Proportions (%)					
Acetate	Acetate	94.90 ± 1.00 ^a	94.67 ± 0.72 ^a	94.59 ± 0.44 ^a	95.13 ± 0.54 ^a	95.25 ± 1.36 ^a
	Propionate	4.31 ± 0.80 ^a	4.69 ± 0.73 ^a	4.78 ± 0.36 ^a	4.49 ± 0.52 ^a	4.51 ± 1.16 ^a

	Butyrate	0.78 ± 0.20 ^a	0.63 ± 0.01 ^{ab}	0.64 ± 0.08 ^{ab}	0.38 ± 0.02 ^{ab}	0.24 ± 0.20 ^b
	Ratio A:P	22.41 ± 4.39 ^a	20.43 ± 3.35 ^a	19.87 ± 0.32 ^a	21.35 ± 2.61 ^a	21.87 ± 5.91 ^a
	Total Molar Concentration (mM)	8.52 ± 0.25 ^{b/12}	12.03 ± 0.60 ^{b/12}	12.04 ± 0.90 ^{b/12}	26.50 ± 2.85 ^{a/2}	24.40 ± 4.30 ^{a/2}
Molar Proportions (%)						
gRS	Acetate	95.65 ± 0.48 ^b	95.42 ± 0.04 ^b	96.28 ± 0.26 ^b	97.44 ± 0.03 ^a	97.76 ± 0.20 ^a
	Propionate	3.74 ± 0.32 ^a	4.11 ± 0.10 ^a	3.40 ± 0.17 ^a	2.36 ± 0.04 ^b	2.10 ± 0.17 ^b
	Butyrate	0.61 ± 0.16 ^a	0.46 ± 0.05 ^{ab}	0.33 ± 0.09 ^{ab}	0.20 ± 0.02 ^b	0.14 ± 0.04 ^b
	Ratio A:P	25.68 ± 2.31 ^b	23.21 ± 0.56 ^b	28.35 ± 0.25 ^b	41.31 ± 0.76 ^a	46.71 ± 3.78 ^a
	Total Molar Concentration (mM)	8.69 ± 0.88 ^{b/12}	12.45 ± 1.10 ^{ab/12}	12.73 ± 0.23 ^{ab/1}	21.74 ± 2.36 ^{ab/2}	24.65 ± 7.52 ^{a/2}
Molar Proportions (%)						
Inulin	Acetate	92.55 ± 0.45 ^a	92.11 ± 1.02 ^{ab}	76.32 ± 5.56 ^c	80.11 ± 1.37 ^{bc}	80.86 ± 3.73 ^{bc}
	Propionate	6.65 ± 0.41 ^c	7.31 ± 0.91 ^{bc}	23.34 ± 5.52 ^a	19.51 ± 1.46 ^{ab}	18.85 ± 3.69 ^{ab}
	Butyrate	0.80 ± 0.05 ^a	0.58 ± 0.11 ^{ab}	0.34 ± 0.05 ^{bc}	0.38 ± 0.09 ^{bc}	0.29 ± 0.04 ^c
	Ratio A:P	13.94 ± 0.92 ^a	12.71 ± 1.72 ^b	3.39 ± 1.04 ^c	4.12 ± 0.38 ^c	4.39 ± 1.06 ^c
	Total Molar Concentration (mM)	5.81 ± 0.24 ^{c/2}	7.20 ± 0.30 ^{c/3}	9.12 ± 0.55 ^{c/23}	36.16 ± 0.60 ^{b/1}	45.01 ± 2.20 ^{a/1}
Molar Proportions (%)						
D-glucose	Acetate	97.20 ± 0.21 ^a	97.08 ± 0.17 ^a	95.82 ± 0.17 ^a	96.60 ± 0.47 ^a	96.47 ± 0.43 ^a
	Propionate	1.94 ± 0.25 ^b	2.39 ± 0.27 ^{ab}	3.84 ± 0.27 ^a	3.11 ± 0.42 ^{ab}	3.22 ± 0.38 ^{ab}
	Butyrate	0.86 ± 0.04 ^a	0.52 ± 0.11 ^b	0.35 ± 0.11 ^b	0.29 ± 0.05 ^b	0.31 ± 0.05 ^b
	Ratio A:P	50.45 ± 6.64 ^a	40.81 ± 4.69 ^{ab}	25.36 ± 4.69 ^b	31.39 ± 4.35 ^{ab}	30.20 ± 3.68 ^{ab}
	Total Molar Concentration (mM)	9.65 ± 1.32 ^{b/1}	13.73 ± 0.48 ^{b/1}	12.59 ± 1.25 ^{b/1}	24.96 ± 1.31 ^{a/2}	21.21 ± 2.22 ^{a/2}

p<0.05