

Table S1. Specific contents of three short chain fatty acids (SCFAs).

Probiotic Strain	Group	Acetic Acid (μM)	Propionic Acid (μM)	Butyric Acid (μM)	Total SCFAs (μM)
<i>L. paracasei</i>	NC	47.80 \pm 6.84	5.32 \pm 1.36	5.55 \pm 1.75	58.67 \pm 9.95
	Inulin	9.77 \pm 1.60	0.52 \pm 0.06	0.62 \pm 0.23	10.91 \pm 1.31
	PRG 0.1%	122.65 \pm 128.14	5.69 \pm 4.71	3.11 \pm 3.44	131.44 \pm 136.29
	PRG 0.5%	132.84 \pm 130.40	5.45 \pm 2.77	1.14 \pm 0.75	139.43 \pm 133.92
<i>L. plantarum</i>	NC	130.61 \pm 79.54 ^c	6.12 \pm 1.05 ^c	5.34 \pm 2.48 ^a	142.07 \pm 76.01 ^c
	Inulin	56.67 \pm 8.69 ^d	6.46 \pm 4.41 ^c	0.78 \pm 0.35 ^b	63.91 \pm 13.45 ^c
	PRG 0.1%	424.87 \pm 127.5 ^b	15.94 \pm 0.21 ^b	1.72 \pm 0.38 ^b	442.53 \pm 128.13 ^b
	PRG 0.5%	1011.87 \pm 49.72 ^a	26.19 \pm 5.62 ^a	2.23 \pm 0.36 ^b	1040.29 \pm 55.70 ^a
<i>L. lactis</i>	NC	139.49 \pm 19.16 ^c	5.41 \pm 0.23 ^c	2.62 \pm 0.64 ^b	147.53 \pm 18.28 ^c
	Inulin	75.42 \pm 23.21 ^d	3.66 \pm 0.69 ^c	2.34 \pm 2.46 ^b	81.43 \pm 20.06 ^d
	PRG 0.1%	329.81 \pm 83.89 ^b	13.12 \pm 0.33 ^b	7.04 \pm 7.81 ^b	349.96 \pm 91.38 ^b
	PRG 0.5%	768.90 \pm 19.91 ^a	16.52 \pm 0.78 ^a	29.54 \pm 1.71 ^a	815.01 \pm 22.39 ^a
<i>B. bifidum</i>	NC	54.33 \pm 19.45 ^c	3.22 \pm 1.73 ^b	2.27 \pm 0.10 ^c	59.82 \pm 21.08 ^c
	Inulin	256.81 \pm 38.99 ^b	4.62 \pm 0.22 ^b	7.77 \pm 2.18 ^b	278.20 \pm 40.95 ^b
	PRG 0.1%	269.01 \pm 98.18 ^b	4.66 \pm 3.84 ^b	3.76 \pm 0.87 ^c	277.43 \pm 102.90 ^b
	PRG 0.5%	558.33 \pm 6.53 ^a	11.07 \pm 0.12 ^a	39.41 \pm 25.42 ^a	608.80 \pm 19.01 ^a
<i>B. longum</i>	NC	73.41 \pm 9.27 ^b	5.98 \pm 0.79	2.29 \pm 1.38	81.67 \pm 7.11 ^b
	Inulin	231.93 \pm 34.36 ^a	6.42 \pm 0.40	12.82 \pm 13.63	251.17 \pm 48.39 ^a
	PRG 0.1%	264.52 \pm 131.35 ^a	5.05 \pm 0.66	9.36 \pm 0.56	278.93 \pm 131.24 ^a
	PRG 0.5%	423.68 \pm 273.55 ^a	6.78 \pm 0.78	2.45 \pm 0.07	432.91 \pm 274.25 ^a

The different letters indicate significant difference ($p < 0.05$) determined by Duncan's multiple range test.