

Supplementary Table 1. Probiotic properties of isolated strains

	Acid tolerance	Bile tolerance	Antimicrobial activity (mm)				Adhesion ability	Hemolysis	Bile salt deconjugation (BSH) activity	16s rRNA sequencing (species)
			<i>L. monocytogenes</i>	<i>S. typhimurium</i>	<i>E. coli</i>	<i>S. aureus</i>				
<i>Lacticaseibacillus rhamnosus</i> GG	++	+	15.25±0.59	22.47±0.68	17.24±1.09	15.72±0.67	97.30	γ-hemolysis	-	<i>L. rhamnosus</i>
<i>Bifidobacterium longum</i>	-	-	18.11±0.70	15.92±1.28	19.07±0.36	13.02±0.99	76.33	γ-hemolysis	+	<i>B. longum</i>
	++	+	14.93±0.08	14.37±1.29	12.70±0.36	13.51±0.83	113.43	γ-hemolysis	+	<i>B. longum</i>
	+	++	14.12±0.19	13.42±0.44	12.58±0.38	17.16±0.36	127.44	γ-hemolysis	+	<i>B. longum</i>
<i>Lactobacillus gasseri</i>	++	-	19.14±0.86	15.03±0.58	14.54±0.40	14.58±0.57	98.08	γ-hemolysis	+	<i>L. gasseri</i>
	-	+	17.48±0.75	14.32±1.13	12.78±0.57	13.74±0.61	87.66	γ-hemolysis	+	<i>L. gasseri</i>
	-	-	18.42±0.62	14.10±0.40	17.15±0.23	14.72±1.12	114.47	γ-hemolysis	+	<i>L. gasseri</i>
<i>Limosilactobacillus fermentum</i>	++	+++	13.59±0.64	12.36±0.52	13.79±0.44	11.21±0.27	122.41	γ-hemolysis	-	<i>L. fermentum</i>
	+++	++	13.58±0.62	22.30±1.32	19.00±0.38	13.82±0.50	128.91	γ-hemolysis	-	<i>L. fermentum</i>
	++	+	13.20±0.29	11.84±0.36	12.57±0.19	10.76±0.58	72.41	γ-hemolysis	-	<i>L. fermentum</i>

L.mococyrogenes; *Listeria monocytogenes* EGD-e, *S. typhimurium*; *Salmonella typhimurium* SL1344, *E. coli*; *Escherichia coli* O157:H7, *S. aureus*; *Staphylococcus aureus* Newman

Supplementary Table 2. Minimal inhibitory concentrations (MICs) of selected antibiotics for *L. fermentum* SLAM_LAF05 and *B. longum* SLAM_BIL02.

	Ampicillin	Vancomycin	Gentamicin	Kanamycin	Streptomycin	Erythromycin	Clindamycin	Tetracycline	Chloramphenicol
<i>Lactobacillus obligate heterofermentative</i>	2	n.r.	16	32	64	1	1	8	4
<i>L. fermentum</i> SLAM_LAF05	0.19	>256	4	32	16	0.5	<0.016	1.5	3
<i>Bifidobacterium</i>	2	2	64	n.r.	128	1	1	8	4
<i>B. longum</i> SLAM_BIL02	2	1	32	>256	128	0.125	1	0.75	0.047

The gray-shaded row indicates the European Food Safety Authority (EFSA) microbiological cut-off values used for assessing antibiotic resistance.