

Table S1. Screening of lactic acid bacteria strains for known and predicted bacteriocin genes.

Species	Strains	Gene
<i>Lactobacillus acidophilus</i>	VKPM B-2105	<i>hlyJ</i>
<i>Lactobacillus acidophilus</i>	VKPM B-2900	<i>hlyJ</i>
<i>Lactobacillus acidophilus</i>	VKPM B-6551	<i>hlyJ</i>
<i>Lactobacillus acidophilus</i>	VKPM B-6552	<i>hlyJ</i>
<i>Lactobacillus buchneri</i>	VKPM B-7641	<i>gasT</i>
<i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i>	VKPM B-11948	nd
<i>Lactobacillus casei</i>	VKPM B-2872	nd
<i>Lactobacillus casei</i>	VKPM B-2873	nd
<i>Lactobacillus fermentum</i>	VKPM B-8724	<i>hlyJ</i>
<i>Lactobacillus gallinarum</i>	VKPM B-10907	LCA12A_2788
<i>Lactobacillus graminis</i>	VKPM B-11233	<i>BacSJ2-8</i> , LG542_08235
<i>Lactobacillus paracasei</i>	VKPM B-4079	LCA12A_2788
<i>Lactobacillus paracasei</i>	VKPM B-11657	LCA12A_2788
<i>Lactobacillus plantarum</i>	VKPM B-11007	<i>plnA, plnE, plnF, plnJ</i>
<i>Lactobacillus reuteri</i>	VKPM B-9448	nd
<i>Lactobacillus rhamnosus</i>	VKPM B-8238	LRHK_2402
<i>Lactobacillus sakei</i>	VKPM B-8936	nd
<i>Lactobacillus salivarius</i>	VKPM B-2214	LCA12A_2788

The LAB strains were tested for the presence of genes encoding known *Lactobacillus* bacteriocins (*acdT*, *acdB*, *bacSJ2-8*, *gasT*, *hlyJ*, *hly*, *papA*, *plnA*, *plnE*, *plnF*, *plnJ*, *plnK*, *sakA*, *sakQ*, *abp118α*) and predicted bacteriocins lactococcin 972 family (LacC0470_08940 and LG542_08235) and class II b bacteriocins (LRHK_2402 and LCA12A_2788), as well as lantibiotic-related genes *lanB*, *lanC* (class I type I lantibiotics) and *lanM* (class I type II lantibiotics). N/d means not detected.