

Supplementary Information

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***In vivo* monitoring of *Lactiplantibacillus plantarum* in the nasal and vaginal mucosa using infrared fluorescence**

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Lactobacillus plantarum strain NBRC 15891 16S ribosomal RNA, partial sequence

Sequence ID: [NR_113338.1](#) Length: 1492 Number of Matches: 1

Range 1: 4 to 348 [GenBankGraphics](#) Next Match Previous Match

Alignment statistics for match #1

	Score	Expect	Identities	Gaps	Strand	
	630 bits(341)	1e-180	343/345(99%)	0/345(0%)	Plus/Plus	
Query	1	GAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAACGAACTCTGGTATTGATTGGTGCT	60			
Sbjct	4	GAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAACGAACTCTGGTATTGATTGGTGCT	63			
Query	61	TGCATCATGATTTACATTTGAGTGAGTGGCGAACTGGTGAGTAACACGTGGGAAACCTGC	120			
Sbjct	64	TGCATCATGATTTACATTTGAGTGAGTGGCGAACTGGTGAGTAACACGTGGGAAACCTGC	123			
Query	121	CCAGAAGCGGGGATAACACCTGGAAACAGATGCTAATACCGCATAACAACCTTGGACCGC	180			
Sbjct	124	CCAGAAGCGGGGATAACACCTGGAAACAGATGCTAATACCGCATAACAACCTTGGACCGC	183			
Query	181	ATGGTCCGAGYTTGAAAGATGGCTTCGGCTATCACTTTTGGATGGTCCCGCGGCGTATTA	240			
Sbjct	184	ATGGTCCGAGNTTGAAAGATGGCTTCGGCTATCACTTTTGGATGGTCCCGCGGCGTATTA	243			
Query	241	GCTAGATGGTGRGGTAACGGCTCACCATGGCAATGATACGTAGCCGACCTGAGAGGGTAA	300			
Sbjct	244	GCTAGATGGTGGGTAACGGCTCACCATGGCAATGATACGTAGCCGACCTGAGAGGGTAA	303			
Query	301	TCGGCCACATTGGGACTGAGACACGGCCCAAACCTCCTACGGGAGG	345			
Sbjct	304	TCGGCCACATTGGGACTGAGACACGGCCCAAACCTCCTACGGGAGG	348			

Figure S1. 16S rRNA sequencing results of *L. plantarum* 3.12.1.

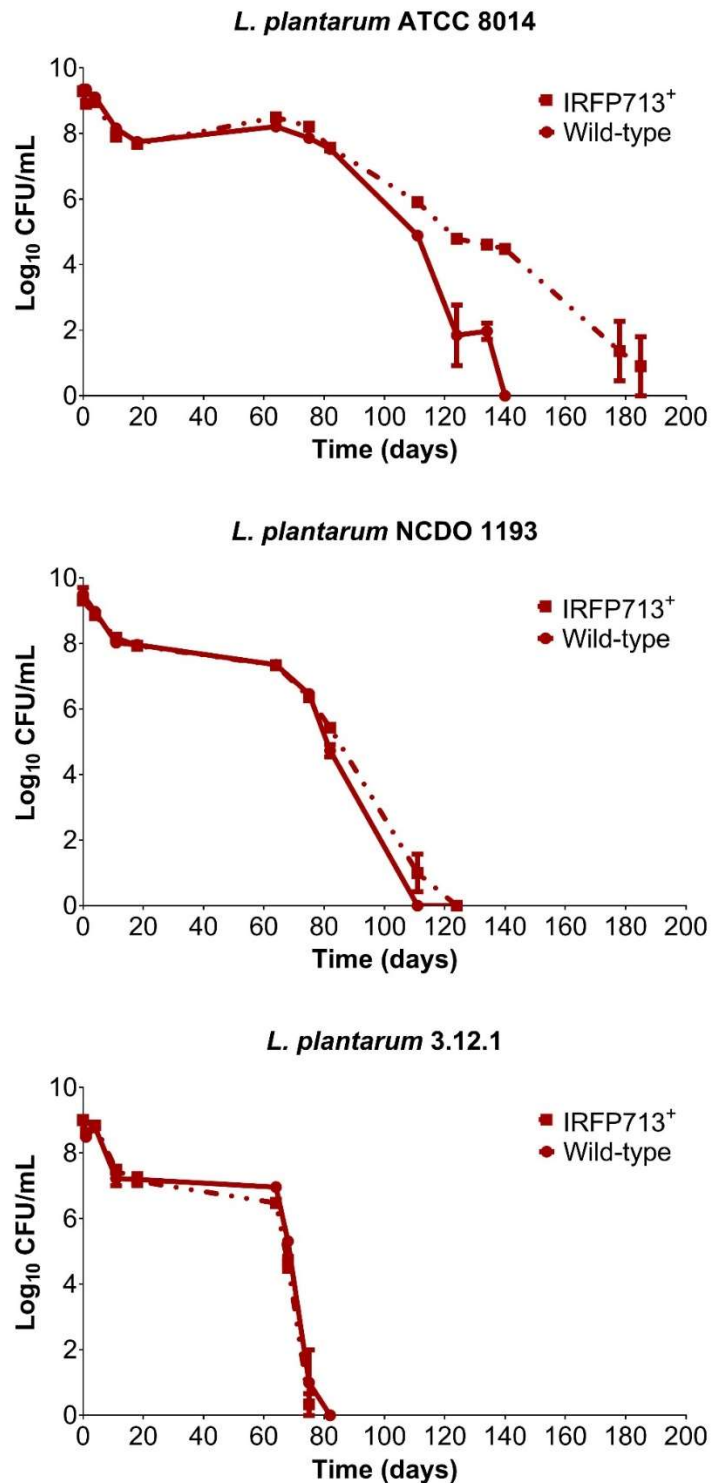


Figure S2. Viability of wild-type and IRFP-expressing *L. plantarum* ATCC 8014, NCDO 1193 and 3.12.1 strains during storage at 4 °C. Overnight cultures of wild-type and pNZRK-IRFP713-harboring *L. plantarum* were used to inoculate fresh MRS (and MRS containing Cm) medium supplemented with biliverdin and nisin, incubated overnight, resuspended in sucrose and stored at 4 °C until used for CFU determination. The data shown are mean $\pm$ SEM of 3 biological replicates.