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SUPPLEMENTARY MATERIAL

Inhibiting potential of selected lactic acid bacteria isolated from Costa Rican agro-industrial waste against *Salmonella* sp. in yogurt

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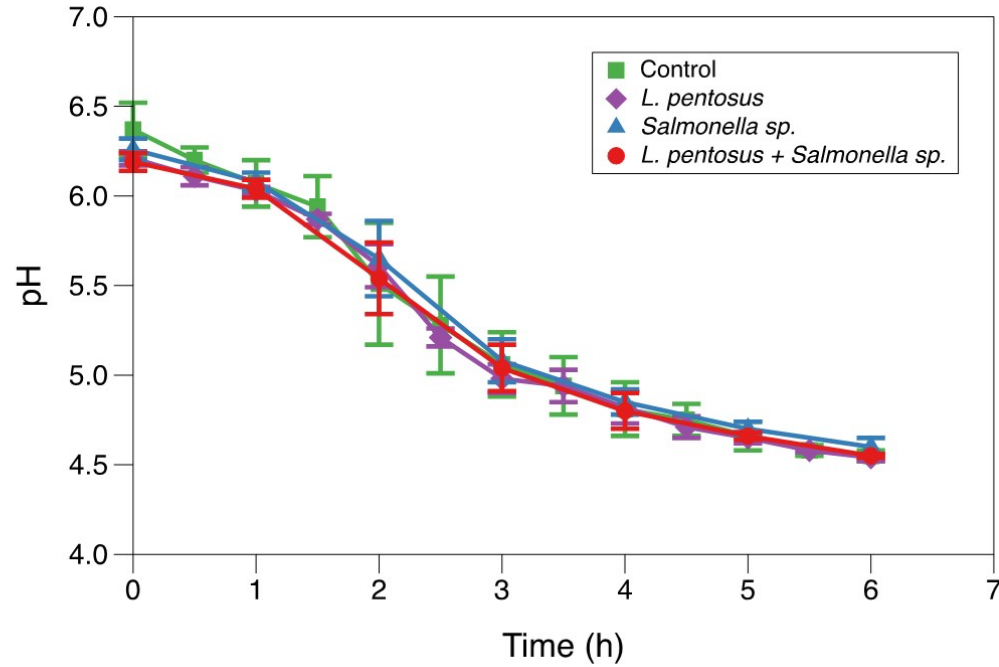
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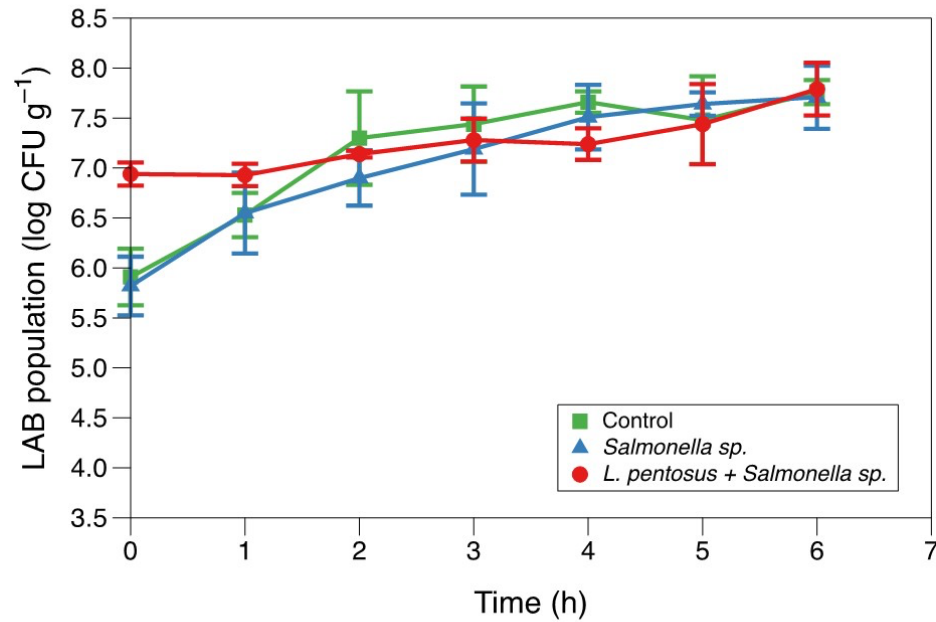
Supplementary Table 1. Inhibition halo of *Salmonella enterica*, *Listeria monocytogenes*, *Staphylococcus aureus* 29213 and *Escherichia coli* 25922 grown on culture media pre-inoculated with different lactic acid bacteria strains isolated from agro-industrial waste.

LAB strain	GenBank code	Isolation source	Halo			
			<i>Salmonella</i>	<i>L. monocytogenes</i>	<i>S. aureus</i>	<i>E. coli</i>
<i>Weissella soli</i> _29-5(1)	ON763313	Carrot waste residues	+	+	+	+
<i>Weissella soli</i> _30-6(3)	ON763314	Carrot waste residues	+	+	+	+
<i>Weissella soli</i> _31-2(9B)	ON763315	Carrot waste residues	+	+	+	+
<i>Lactiplantibacillus pentosus</i> _16-6(1C)	ON763300	Coffee brush	+	+	+	+
<i>Leuconostoc pseudomesenteroides</i> _18-(1B)	ON763310	Coffee brush	++	+	+	+
<i>Lactobacillus pentosus</i> _19-(3A)	ON763312	Coffee brush	+	+	+	+
<i>Lactobacillus pentosus</i> _19-(5A)	ON763302	Coffee brush	+	+	+	+
<i>Leuconostoc</i> _66-2(4A)	ON763311	Orange waste residuals	+	+	+	+
<i>Levilactobacillus brevis</i> _68-6(1C)	ON763329	Orange waste residuals	+	+	+	+
<i>Lactobacillus plantarum</i> _69-2(3D)	ON763306	Orange waste residuals	+	+	+	+
<i>Lactobacillus pentosus</i> _70-6(1E)	ON763307	Orange waste residuals	+	+	+	+
<i>Lactobacillus plantarum</i> subsp. <i>plantarum</i> _70-6(13E)	ON763327	Orange waste residuals	+	+	+	+
<i>Lacticaseibacillus paracasei</i> _P2	ON763288	MFC of coffee effluent	+	+	+	+
<i>Lacticaseibacillus paracasei</i> _P4	ON763289	MFC of coffee effluent	+	+	+	+
<i>Lacticaseibacillus paracasei</i> _P6	ON763290	MFC of coffee effluent	+	+	+	+
<i>Lacticaseibacillus paracasei</i> _P8	ON763291	MFC of coffee effluent	+	+	+	+
<i>Lacticaseibacillus paracasei</i> _P9	ON763292	MFC of coffee effluent	+	+	+	+
<i>Lacticaseibacillus paracasei</i> _P10	ON763293	MFC of coffee effluent	+	+	+	+
<i>Lacticaseibacillus paracasei</i> _P13	ON763294	MFC of coffee effluent	+	+	+	+
<i>Limosilactobacillus fermentum</i> _56(6)-2F	ON763317	Trinitario cocoa	+++	+	+	+
<i>Limosilactobacillus fermentum</i> _56(6)-1F	ON763318	Trinitario cocoa	+	+	+	+
<i>Limosilactobacillus fermentum</i> _56(7)-1G	ON763319	Trinitario cocoa	+	+	+	+
<i>Limosilactobacillus fermentum</i> _57(7)-2H	ON763324	Trinitario cocoa	++	+	+	+
<i>Limosilactobacillus fermentum</i> _58(7)-1J	ON763325	Trinitario cocoa	+	+	+	++
<i>Limosilactobacillus fermentum</i> _78(6)-1A	ON763321	Trinitario cocoa	+	+	+	+
<i>Pediococcus acidilactici</i> _78(6)-3A	ON763330	Trinitario cocoa	++	++	+	+
<i>Limosilactobacillus fermentum</i> _78(6)-2A	ON763322	Trinitario cocoa	+	+	+	+
<i>Limosilactobacillus fermentum</i> _79(6)-1D	ON763323	Trinitario cocoa	+	+	+	+
<i>Weissellaghanensis</i> _80(6)-1E	ON763316	Trinitario cocoa	+	+	+	+

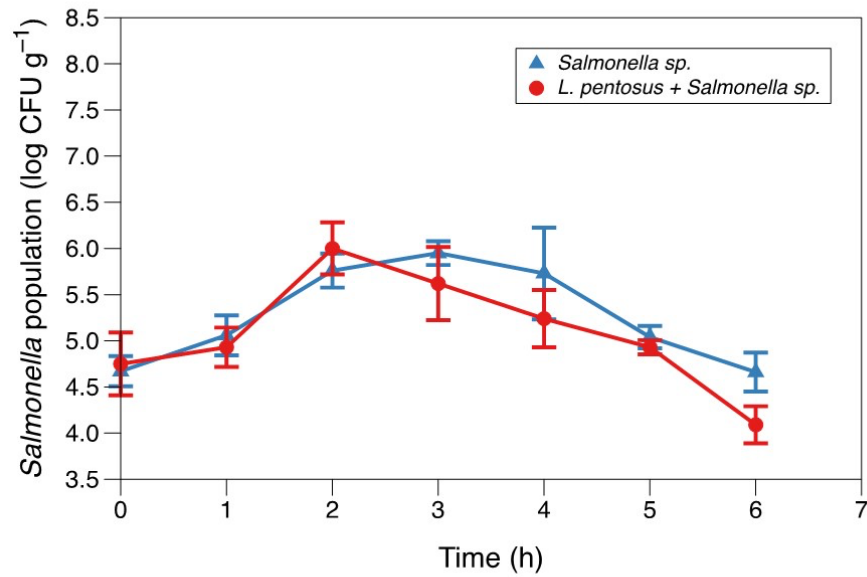
+ Inhibition zone 0- 3 mm in diameter (weak), ++ inhibition zone 3- 6 mm in diameter (good), +++ inhibition zone larger than 6 mm in diameter (strong). MFC, microbial fuel cells.



Supplementary Figure 1. pH values during fermentation of yogurt subjected to different inoculation treatments (means, error bars show the standard deviation for n=3).



Supplementary Figure 2. Lactic acid bacteria (LAB) count during fermentation of yogurt subjected to different inoculation treatments (means, error bars show the standard deviation for n=3).



Supplementary Figure 3. *Salmonella sp.* counts during fermentation of yogurt subjected to different inoculation treatments (means, error bars show the standard deviation for n=3).