**Supporting Information**

**Table S1.** Sequence similarity between LAP, an alcohol acetaldehyde dehydrogenase (Aad) from *Listeria monocytogenes* and Lactobacilli.

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| --- | --- | --- | --- |
| **Bacteria** | **NCBI accession** | **Identities (%)** | **Positives (%)** |
| *Lactobacillus rhamnosus* | ZP\_03211500 | 60 % (528/871a) | 75 % (659/871) |
| *Lb. acidophilus* | YP\_193379 | 50 % (443/878) | 67 % (593/878) |
| *Lb. paracasei* | ZP\_04672734 | 60 % (525/872) | 75 % (661/872) |

aNumber of identical or similar amino acids from total amino acids of Aad from *L. monocytogenes*