**Supporting Information**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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*