Supplemental Material

The ability of two lactic acid bacteria strains to inhibit *L. monocytogenes* by spot-inoculation and in an environmental microbiome context

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TABLE S1 Locus tags of bacteriocin encoding genes detected in the draft genomes of strains PS01155 and PS01156 using BAGEL 4.

| Strain   | Bacteriocin gene | Locus tag                        | Start | End   | Accession         | E-value  | Query coverage (%) | Identity (%) |
|----------|------------------|----------------------------------|-------|-------|-------------------|----------|--------------------|--------------|
| PS01155  | Enterocin B      | NODE_29_length_12683_cov_51.018079 | 1,978 | 12,682| WP_002295295.1   | $9 \times 10^{-33}$ | 100              | 100          |
|          | Enterocin P      | NODE_18_length_47365_cov_62.837059 | 36,713| 47,365| WP_010733280.1   | $4 \times 10^{-39}$ | 100              | 98.51        |
|          | Enterolysin A    | NODE_18_length_47365_cov_62.837059 | 17,171| 37,714| WP_005877003.1   | 0.0      | 100               | 100          |
|          | Enterocin A      | NODE_10_length_102565_cov_59.833919 | 91,889| 102,565| WP_002304799.1   | $1 \times 10^{-38}$ | 100,           | 100          |
| PS01156  | Enterocin P      | NODE_39_length_10873_cov_57.676717 | 0     | 10,872| WP_002291094.1   | $6 \times 10^{-43}$ | 100              | 100          |
|          | Enterocin L50b   | NODE_53_length_6845_cov_39.432569 | 0     | 6,844 | WP_002293183.1   | $8 \times 10^{-22}$ | 100              | 100          |
|          | Enterocin L50a   | NODE_53_length_6845_cov_39.432569 | 0     | 6,844 | WP_236918740.1   | $3 \times 10^{-28}$ | 50               | 100          |
|          | Enterolysin A    | NODE_21_length_43187_cov_64.562494 | 17,087| 37,630| WP_002293508.1   | 0        | 100               | 100          |
|          | UviB             | NODE_8_length_118611_cov_59.795483 | 62,363| 82,507| P_002342148.1    | $1 \times 10^{-41}$ | 100              | 100          |
TABLE S2 Growth conditions used for characterization of antilisterial activity of lactic acid bacteria strains PS01155 and PS01156.

| Strain  | Medium<sup>a</sup> | pH  | Temperature (°C) | Time (h) |
|---------|---------------------|-----|------------------|----------|
|         |                     |     |                  |          |
| PS1155  | MRS                 | 6.2 | 37               | 24       |
|         |                     |     |                  |          |
|         | BHI                 | 6.2 | 37               | 24       |
|         |                     |     |                  |          |
|         | BHI                 | 7.0 | 37               | 48       |
|         |                     |     |                  |          |
| PS1156  | MRS                 | 6.2 | 37               | 48       |
|         |                     |     | 41.5             | 12       |
|         |                     |     | 25               | 24       |
|         | BHI                 | 6.2 | 37               | 24       |
|         |                     |     | 37               | 48       |
|         | BHI                 | 7.0 | 37               | 24       |
|         |                     |     | 37               | 48       |
|         | TSB                 | 6.2 | 37               | 24       |
|         |                     | 7.0 | 37               | 24       |

<sup>a</sup>MRS, deMann, Rogosa, and Sharp broth; BHI, Brain Heart Infusion broth; TSB, Tryptic Soy Broth.