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Czech J. Food Sci.

**Kučerová K., Korbová
I., Horáčková Š,**

**SVIRAKOVA E., PLOCKOVA
M.:**

Influence of Enterococci and Lactobacilli on *Listeria*

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A collection of lactic acid bacteria (38 *Enterococcus* and 41 *Lactobacillus* strains) was tested for the antilisterial activity against 15 *Listeria* spp. strains (two *L. monocytogenes*, one *L. ivanovii* and 12 *L. innocua* strains) using agar spot method. Out of all 79 bacteria only six *Enterococcus* strains (1/3A, 3/3A, 6/4D, 6/1A, 1282 and EN3) exhibited antilisterial activity against almost all used indicator strains, when their live cells were tested. When their cell free neutralised supernatants (CFNS) were tested against four selected indicator strains (*L. innocua* Ln-03, Ln-06, Ln-10 and *L. monocytogenes* CCM5576) only two *Enterococcus* spp. strains were active – *E. faecalis* 6/1A strain from raw cow milk of minor interest due to the activity of its CFNS only against *L. innocua* Ln-06

and thermolability of the compound and *E. mundtii* 1282 strain from goat raw milk with CFNS active against 13 *Listeria* spp. strains including *L. monocytogenes*. *E. mundtii* 1282 strain produced probably a bacteriocin, because it completely lost the activity after treatment CFNS with proteinase K.

Keywords:

Enterococcus; Lactobacillus; *Listeria*; antilisterial activity

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