

### **Agricultural Journals**

Czech Journal of

**FOOD SCIENCES** 

home page about us contact

US

# Table of Contents

**IN PRESS** 

**CJFS 2014** 

**CJFS 2013** 

**CJFS 2012** 

**CJFS 2011** 

**CJFS 2010** 

**CJFS 2009** 

**CJFS 2008** 

**CJFS 2007** 

**CJFS 2006** 

**CJFS 2005** 

**CJFS 2004** 

**CJFS 2003** 

**CJFS 2002** 

**CJFS 2001** 

**CJFS Home** 

# Editorial Board

### **For Authors**

- AuthorsDeclaration
- Instruction to Authors
- Guide for Authors
- CopyrightStatement
- Submission

# For Reviewers

- Guide for Reviewers
- ReviewersLogin

### **Subscription**

## Czech J. Food Sci.

Složilová I., Purkrtová S., Kosová M.,

# E., Demnerová K.:

# Antilisterial activity of lactic acid bacteria against *Listeria* monocytogenes strains originating from different sources

Czech J. Food Sci., 32 (2014): 145-151

Eight individual bacteriocin-producing lactic acid bacteria (LAB) strains and three bacteriocin-non-producing cheese starter cultures were evaluated for their ability to inhibit the growth of six *Listeria monocytogenes* strains, originating from the guinea-pig lymph nodes, raw cow milk, and manufacturing dairy equipment. Results showed that either live cells or cell-free neutralised supernatant (CFNS) and/or heated CFNS of six individual LAB strains (*Lcc. lactis* subsp. *lactis* CCDM 416 and NIZO R5, *Lbc. plantarum* HV 11 and DC 1246, *P. acidilactici* HV 12, and *Ent. mundtii* CCM 1282) and one starter culture (DELVO-

ADD® 100-X DSF) were effective in the suppression of at least one listeria strain. Neither any individual LAB strain nor starter culture was antagonistic toward all studied *L. monocytogenes* strains, indicating diverse sensitivity/resistance among *L. monocytogenes* strains to antimicrobial compounds of LAB. The significant susceptibility of listerias isolated from raw milk and dairy equipment together with the strong antilisterial activity of DELVO-ADD® 100-X DSF could be applied in dairy technology, where commonly used starter cultures could play both the biopreservative and fermentation role.

### **Keywords:**

Listeria; starter culture; antilisterial effect; bacteriocin; sensivitivy; biopreservative agent

[fulltext]

© 2011 Czech Academy of Agricultural Sciences

XHTML1.1 VALID

