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[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

- **Authors Declaration**
- **Instruction to Authors**
- **Guide for Authors**
- **Copyright Statement**
- **Submission**

For Reviewers

- **Guide for Reviewers**
- **Reviewers Login**

Subscription

Czech J. Food Sci.

**Sýkorová Goffová Z.,
Kožířová I., Máté D.,**

Marčičák S., Gondová
Z., Sopková D.:

Comparison of detection sensitivity of five microbial inhibition tests for the screening of aminoglycoside residues in fortified milk

Czech J. Food Sci., 30 (2012): 314-320

The assessment of detection sensitivity of five microbial inhibition tests (MITs), STAR (screening test for antibiotic residues) with the test strain *Bacillus subtilis* BGA, Delvotest® S P-NT, Total Antibiotics, Kalidos TB, and Kalidos MP with the test strain *Bacillus stearothermophilus* var. *calidolactis* to five aminoglycosides (AMGs), gentamicin, neomycin, streptomycin, kanamycin, and spectinomycin in fortified milk samples were studied. The

sensitivity of MITs to AMGs was evaluated on the basis of experimental determination of detection limits (LODs) of MITs for AMGs. The LODs of these tests were compared with the maximum residue limits (MRLs) established for milk by the Commission Regulation (EU) No. 37/2010. LODs of STAR for AMGs in fortified milk samples were at the levels of MRL for neomycin (1.50 µg/g), gentamicin (0.10 µg/g), streptomycin (0.20 µg/g) and kanamycin (0.15 µg/g). Spectinomycin (0.20 µg/g) was not detected at the level of MRL. The LODs determined by Delvotest® SP-NT, Total Antibiotics and Kalidos MP were comparable, but only gentamicin and neomycin were reliably detected at the