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Czech J. Food Sci.

**Brychta J., Smola J.,
Pipek P., Ondráček J.,**

**Bednar V., Cizek A.,
Brychta T.:
The occurrence of
enterotoxigenic
isolates of *B. cereus* in
foodstuffs**

Czech J. Food Sci., 27 (2009): 284-292

Enterotoxigenic *Bacillus cereus* was detected in a variety of meat stuffs (36), ready-to-cook products (5), and swabs (7). The bacterial colonies isolated from PEMBA agar were identified as *B. cereus*. The 85 isolates were examined for the enterotoxin production using both TECRA-VIA and BCET-RPLA kits (ELISA – 47, RPLA – 38). Thirty two isolates (66%) were positive for enterotoxin using the ELISA test while only 15 isolates (39%) gave positive results in the RPLA test system. In total, 178 (91.8%) and 164 (84%) of the strains isolated in our laboratory (from various foods) were enterotoxigenic as determined using TECRA-VIA and BCET-RPLA, respectively. Parallel enterotoxin positive results obtained using both tests were

demonstrated in only 9 isolates from 19 assessed (47.4%). Coincidental negative results from both kits were established for 3 isolates (15.8%) only. The isolates of *B.cereus* from meat were resistant to cephalothin (57%), clindamycin (14%), oxytetracycline (14%), and erythromycin (7%). The isolates from swabs were resistant to cephalothin (83%), erythromycin (16%), clindamycin (16%) and enrofloxacin (16%).

Keywords:

Bacillus cereus; enterotoxin; bacterial resistance; foodstuffs; ELISA; RPLA

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