CHARACTERIZATION OF *SALMONELLA ENTERICA* SEROTYPE TYPHIMURIUM IN THE CZECH REPUBLIC: PHAGE TYPES, ANTIMICROBIAL AND PLASMID PROFILES

Karpíšková R.[1], Koláčková I.[1], Dědičová D.[2], Šrámová H.[2]

[1]National Institute of Public Health, Centre for Food Chain Hygiene, Brno
[2]National Institute of Public Health, Centre for Epidemiology and Microbiology, Šrobárova 48, Prague, Czech Republic

SUMMARY

In this study a collection of 547 S. Typhimurium strains isolated in the years 2000 and 2001 both of the human and non-human origin were analysed. 21 different phage types were detected, the most frequent one was DT104 (46%) followed by DT141 (28%) and DT68 (3%). Resistance to one or more antimicrobial agents was found mainly in DT104 (77.4%). S. Typhimurium isolates resistant to 5 and more antimicrobial agents were found in three phagetypes DT104 (57%), DT120 and DT155. Plasmid profiling of DT104 isolates showed 10 different profiles. Pattern A found in 30.5% of tested strains was predominant and carried serovar specific plasmid and one additional small plasmid of approx. 2.5 kb.

Key words: Salmonella Typhimurium DT104, typing methods

Address for correspondence: R. Karpíšková: National Institute of Public Health, Centre for Food Chain Hygiene, Palackého 3a, 612 42 Brno, Czech Republic, E-mail: karpi@chpr.szu.cz