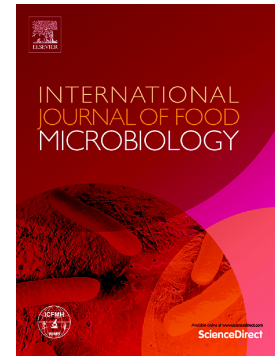


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Ciprofloxacin and nalidixic acid resistance of *Salmonella* spp. isolated from retail food in Poland.

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ABSTRACT

Distribution of amino acid substitutions in the quinolone resistance-determining region (QRDR) of *gyrA*, *gyrB*, *parC*, *parE* and determinants of plasmid-mediated quinolone resistance (PMQR) were investigated among quinolone-resistant *Salmonella* spp. strains isolated from retail food in Poland in the years 2008–2013.

Ten different amino acid substitutions were identified in QRDRs. Five different amino acid substitutions were identified in *gyrA*: Ser83Tyr, Ser83Phe, Asp87Tyr, Asp87Asn, Asp87Gly, two amino acid substitutions in *parC*: Thr57Ser, Ser80Ile and in *parE*: Leu445Phe,

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