



205 Research paper

The prevalence of salmonella serotypes in domestic and wild animals and their spatial distribution in romania, between 2015

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In Significant Impact Groups:

AMU reduction strategies \ Monitoring and surveillance

Species targeted: Pigs; Poultry; Dairy; Beef; Sheep; Other;

Age: Young; Adult;

Summary:

Salmonella are major worldwide zoonotic pathogens infecting a wide range of animal species as well as humans. This study investigates the prevalence of circulating Salmonella serotypes in domestic and wild animal species in Romania and the spatial distribution of Salmonella isolates at county level in the period 2015-2016. There were collected 2551 samples for the isolation and serotyping of Salmonella according to ISO 6579:2002/Amd 1:2007 protocol. The findings of this study show that 36 Salmonella serotypes were isolated in 1357 Salmonella-positive samples in 2015, and 28 serotypes in 1188 Salmonella-positive samples in 2016. One sample from pigeon and one from hen were negative in 2015, and one sample from pigeon and three samples from hen were negative in 2016. In order to reduce the prevalence of serotypes with major zoonotic potential, we recommend continuing collaboration of all the professionals involved in the security of the food chain.

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