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Co-occurrence of mcr-1, mcr-4 and mcr-5 genes in multidrug-resistant ST10 Enterotoxigenic and Shiga toxin-producing *Escherichia coli* in Spain (2006-2017)

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Highlights

- Prevalence of colistin resistance was 76.9% in pigs suffering PWD in Spain.
- *mcr-1*, *mcr-4* and *mcr-5* were detected in 26.4%, 72.8% and 3.6%, respectively.
- Co-occurrence of *mcr-1*, *mcr-4* and *mcr-5* was found in five isolates.
- Two novel *mcr-4* variants were identified.
- ST10-A (CH11-24) clonal group plays a key role in the spread of *mcr-4*.

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