



CONFIDENCE WP2

Rapid and cost-efficient tests for veterinary pharmaceuticals in the food chain

Introduction

The CONFIDENCE project (Contaminants in Food and Feed; Inexpensive Detection for Control of Exposure) aims to further improve food safety in Europe by the development of fast and cost-efficient methods for the detection of a wide range of chemical contaminants in different food and feed commodities. The project is funded by the European Commission in the 7th Framework Programme, call identifier FP7-KBBE-2007-1, Grant Agreement number 211326.

Work package 2 focuses on the development of detection methods for veterinary pharmaceuticals such as antibiotics, coccidiostats and malachite green in fish, and (fish) feed.

Coccidiostats

Objectives

- Flow cytometry based multiplex immunoassay for residues of lasalocid A, monensin, salinomycin, narasin and nicarbazin in feed and eggs.
- Carry-over study of lasalocid from laying hens feed to eggs.

Results so far

- Same extraction method can be used for egg and feed.
- A single multiplex assay can detect residues of lasalocid A, monensin, salinomycin, narasin, nicarbazin and also diclazuril in feed and eggs.



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Antibiotics

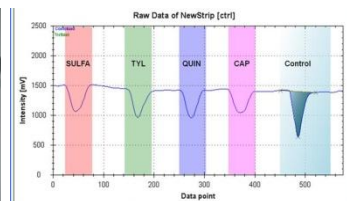
Objectives

Development, validation and impact demonstration of single-component and multiplex dipsticks to detect malachite green (MG), tetracyclines (TCs), tylosin, chloramphenicol, quinolone and sulfonamide antibiotics in a range of matrices including fish, feeds, urine and processed meat and honey.



Results so far

- Extended scope for the tetracycline biosensor (Tetrasensor™).
- Extended scope for the sulfanomide electrochemical immunosensor.
- Prototype multiplex dipstick assay for chloramphenicol, tylosin, quinolones and sulfonamides in honey.
- Malachite green assay for fish under development.



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