

A Survey of Quinolone Residues in Livestock and Marine Products

HSIN-PIN WANG, CHIUAN-YANG LAI, HSIN-CHIH CHEN
AND HSIU-KUAN CHOU

Central Regional Laboratory

ABSTRACT

Quinolone antibacterial drugs are widely used in livestock and marine keeping. In order to monitor quinolone residues in these foods, a survey was conducted from March to July, 2007. A total of 79 samples were collected by local health bureaus and Consumers' Foundation, Chinese Taipei (CFCT), which included goose meat, chicken meat and offal, black-boned chicken meat, livestock processed foods, chicken extracts, sweet fish, and tilapia. All samples were analyzed for seven quinolone antibacterial by a HPLC method, which was promulgated by the Department of Health in 2002. The results showed that banned enrofloxacin was founded in four black-boned chicken meats at concentrations ranging from 0.007 to 0.267 ppm. These four noncompliant samples were further confirmed by liquid chromatography/tandem mass spectrometer (LC/MS/MS). Owners of the samples were fined according to the Veterinary Drugs Control Act and/or instructed to follow the good veterinary practice as required by local enforcement authorities.

Key words: food, quinolones, veterinary drug, HPLC, LC/MS/MS

