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Join us for the NACRW Veterinary Drug Residue Working Group annual meeting.

10:45 – 11:05 am

Progress of the VDR Collaborative Study

Maïwenn Le Floch, Anses-Fougères, National and EU Reference Laboratory for VDR in Food; Fougères, France; maiwenn.lefloch@anses.fr

Thanks to the evolution of instruments that increase in sensitivity and detection capacity, it is becoming interesting to implement multi-class methods of several hundred substances in control laboratories. Developments of these kind of methods are already a topic of concern worldwide, and it is relevant to highlight their use oriented towards official control. It is with this in mind that the NACRW Vet Drug Residue Working Group started to talk about the organization in 2019 of an inter-laboratory collaborative study to evaluate the screening practices for veterinary drug residues carried out using various new generation mass spectrometry devices. The main goal of this study is to evaluate and establish general identification criteria for LC-MS methods using empirical data to minimize rates of false positives and negatives. Three “Rounds” are planned by three different leading labs, each of them selecting two different commodities. In each Round, the study coordinator has to prepare and ship a tray of autosampler vials consisting of spiked final extracts and calibration standards. The receiving laboratories have to analyze the extracts in a prescribed sequence with their own method(s) that should include the 30 targeted drug analytes using LC-MS/MS and/or HRMS instrumentation. The organization of the Round 1 started in the fall of 2021 led by the laboratory of Anses-Fougères in France. During this meeting will be presented the evolution of the study over the past twelve months.






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11:05 – 11:25 am

Stability of Veterinary Drugs

Steven J. Lehotay, U.S. Department of Agriculture, Agricultural Research Service; Wyndmoor, PA 19038; USA. email: steven.lehotay@usda.gov

A stability study was conducted for 27 of the 30 veterinary drugs targeted in the collaborative study being conducted by the Veterinary Drugs Working Group. The drug analytes were monitored over the course of a month at 10, 100, and 1,000 ng/g sample equivalents in the diluted aqueous final extracts for Round 2 in the study (chicken egg and 1/1 bovine liver/kidney). Storage temperatures were -80, -18, 8, and 20 degrees C in the dark. Nearly all of the drugs were stable for at least 30 days in frozen conditions, and few of the analytes were stable at room temperature, as will be shown in the brief presentation.

11:25 –11:45 am

Insights into the new EU Implementing Regulation for Analytical Methods Performance for Veterinary Drug Residue Official Control in Food: CIR (EU) 2021/808

Eric Verdon, Anses-Fougères, National and EU Reference Laboratory for VDR in Food; Fougères, France; eric.verdon@anses.fr

In June 2021 was enforced into the EU a new Commission Implementing Regulation dedicated to update and repeal the old Decisions (EC) 2002/657 and (EC) 98/179 as regard to the performance of analytical methods for residues of pharmacologically active substances used in food-producing animals and on the interpretation of results as well as on the methods to be used for sampling. This presentation will aim at giving some insights on the new approaches inserted in this document and at comparing criteria with those from the 20-year-old former regulation.

11:45 – 12:15 am

Open Forum: Question and Answer Session for NACRW Veterinary Drugs Working Group

Sherri Turnipseed, FDA, Animal Drugs Research Center, Denver, CO, USA, sherri.turnipseed@fda.hhs.gov

A part of the 2022 Annual Meeting of the NACRW Veterinary Drugs Working Group there will be an open forum intended to facilitate discussion among the audience and core members of the Veterinary Working Group. Questions relating to the ongoing collaborative study and other issues of interest to the group will be included. All interested attendees are welcome to participate in the on-line discussion.