

SAM-PRA-046

SAMPLE PREPARATION

The special case of mycotoxins

• Context

Mycotoxins are veterinary drugs belonging to Group B3d of Annex I of the 96/23 directive for *Aspergillus*, *Fusarium* and *Penicillium* mycotoxins, and to Group A4 for zearanol derivatives (metabolite of zearalenone and used as growth promoter as well). Analytical strategies have to be set up in order to ensure their quantification in food and feed. In this context, successful multi-residues analysis in such matrices relies on efficient and appropriate sample preparation protocols.

• General objective(s)

The aim of this practical course is to demonstrate a sample preparation protocol for the analysis of mycotoxins compounds in food samples. Extraction/purification will be performed thanks to Mycosep cartridges (from Romer Labs, Tulln, Austria).

• Main items

SPE / Mycosep / Mycotoxins / Food

• Pedagogical objectives

- ✓ To perform mycotoxins extraction/ purification from food sample
- ✓ To differentiate between the various steps of the protocol
- ✓ To identify critical points in the extraction process

• Pedagogical tools

- ✓ Demonstration on feed samples
- ✓ SPE cartridges utilisation
- ✓ Demonstration performed in the lab

• Duration

- ✓ 1 hour

• Pre-requisite

- ✓ Theoretical lectures on sample preparation (SAM-THE-010, SAM-THE-020, SAM-THE-030)