

SAM-THE-041

SAMPLE PREPARATION

The special case of pesticides

- **Context**

The pesticide regulation in foodstuff is based on Maximal Residue Limits. In this way, the sample preparation has to lead to an efficient quantitative measurement giving a confident concentration in all the considered matrices (more or less complex).

- **General objective(s)**

Based on some examples, the objective is to demonstrate the necessity to take into account the three following parameters: physicochemical properties of the target pesticides; complexity of the matrix of interest and preparation time to reach the most efficient sample preparation.

- **Main items**

Extraction from the matrix / Sample purification

- **Pedagogical objectives**

- ✓ To determine the most appropriate extraction step according to the matrix/pesticide residue selected
- ✓ To determine the most appropriate purification step according to the matrix/compound of interest selected

- **Pedagogical tools**

- ✓ Powerpoint slide show

- **Duration**

30 min

- **Pre-requisite**

- ✓ Knowledge of the chemistry of residues and contaminants of interest (REG-THE-010)
- ✓ General knowledge of sample preparation (SAM-THE-010, SAM-THE-020, SAM-THE-030)