

SCR-PRA-011

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**SCREENING METHODS**  
**ELISA techniques**

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• **Context**

Screening methods are defined as analytical strategies providing strong indications for the presence of a drug residue in a sample. The residue present may be in the form of a parent drug or of its metabolite. Desirable features for screening tests are high throughput possibilities combined with a low rate of false negative results. Amongst the potential screening technologies, ELISA tests are applied to a wide variety of analytical problems in medicine, drug discovery, environment, security and more recently food quality and safety.

• **General objective(s)**

The course is dedicated to the demonstration of an ELISA test.

• **Main items**

Well coating / Washing steps / Antigen-antibody reaction / Secondary antibody / Optical density

• **Pedagogical objectives**

- ✓ To list the main steps required to perform an ELISA
- ✓ To interpret the results

• **Pedagogical tools**

- ✓ Demonstration of the different steps to perform an ELISA on the plates and plate reader
- ✓ Group of maximum 10 persons

• **Duration**

- ✓ 1h20

• **Pre-requisite**

- ✓ Theoretical lectures on screening methods (SCR-THE-010, SCR-THE-020)