

CON-PRA-043

CONFIRMATORY METHODS
The special case of Boldenone

• **Context**

Boldenone is an androgenic steroid classified in group A3 of the 96/23/EC directive. This anabolic compound was considered until 2003 as a strict xenobiotic steroid until publication of its potential natural occurrence in urine collected in calves.

• **General objective(s)**

To illustrate the metabolism study of a steroid through the example of boldenone and subsequent finding of a discriminant metabolite in order to elucidate illegal administration.

• **Main items**

17 β -boldenone sulfate / Metabolism / Phase I / Phase II

• **Pedagogical objectives**

- ✓ To explain phase I and II metabolism
- ✓ To explain the strategy to find out discriminant metabolites
- ✓ To illustrate the global analytical strategy from screening to confirmation

• **Pedagogical tools**

- ✓ Slide show

• **Duration**

- ✓ 45 minutes

• **Pre-requisite**

- ✓ Theoretical lectures on confirmatory methods (CON-THE-010, CON-THE-020, CON-THE-030) and metabolism (CON-THE-060)