



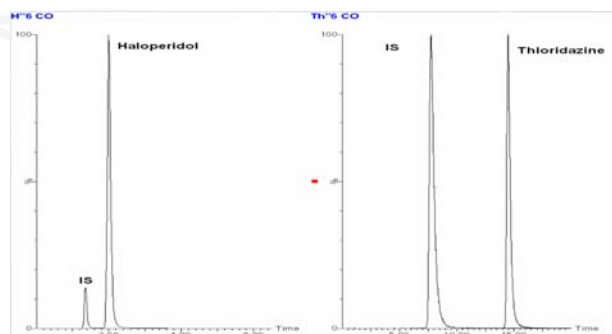
## Post-mortem Redistribution of Drugs in Rats Laboratory of Pharmacology- CHU Bordeaux

### ► CONTEXT

Drug concentration in tissues and body fluids change between the death and the post-mortem specimen collections because of post-mortem redistribution. The aim of this study was to investigate post-mortem redistribution of the 2 cardiotoxic antipsychotic drugs: haloperidol and thioridazine, in order to interpret the post-mortem redistribution. The rat has been chosen as the animal model.

### ► RESULTS

Those chromatograms present liquid-liquid extraction results obtained from heart samples 6 hours after death. At this time the concentration of haloperidol and thioridazine was respectively 472 ng/g and 1435 ng/g (significant variation).



Chromatograms of Liquid/ liquid extraction

### ► MATERIAL

- Precellys®24
- Precellys® kit CK14 (small ceramic beads)
- Sample : rat heart (1/2 v/v)
- Buffer : water

### ► PROTOCOL

- Precellys®24 parameters  
6500 rpm, 2x15 sec.



### ► CONCLUSION

The Precellys®24 allows a quick and efficient homogenization on a significant number of samples. The homogenate is perfectly appropriate for drug extraction.

See also the publication in the journal of *Analytical Toxicology*, 30(7)/ 419-25, September 2006, Nadege Castaing, Karine Titier, Mireille Canal-Rafin, Nicholas Moore, Mathieu Molimard