



POST-MORTEM REDISTRIBUTION 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.

/ MATERIALS

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

/ PROTOCOL

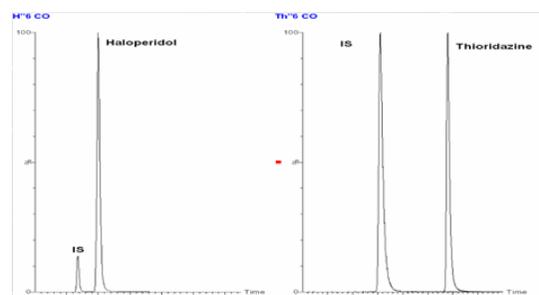
- Precellys®24 parameters
- 6500 rpm, 2x15 sec.

/ CONCLUSION

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

/ 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

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

/ CUSTOMER

