



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

CONTEXT

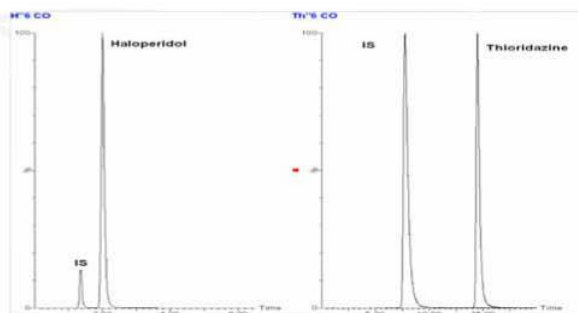
Drug concentration in tissues and body fluids change between the death and the post-mortem specimen collections because of post-mortem redistribution. The aim of this study was to investigate post-mortem redistribution of the 2 cardiotoxic antipsychotic drugs: haloperidol and thioridazine, in order to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

MATERIAL

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



Chromatograms of Liquid/liquid extraction

PROTOCOL

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



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

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CONCLUSION

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

For more details, please contact precellys@bertin.fr or visit our website



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