



## Drug Analysis in Animal Tissue

### In collaboration with the Laboratory of Pharmacology - CHU Bordeaux

#### CONTEXT

Within the context of drug analysis in the toxicology field, the responsibility of target molecules in death is investigated. New protocols for lysing matrix are developed to improve the conditions of grinding and the recovery of the molecules regarding constraints of time, cross-contamination, and volume of sample.

See also publication of K. Titier, from CHU Bordeaux, Department of Clinical Pharmacology and Toxicology

#### RESULTS

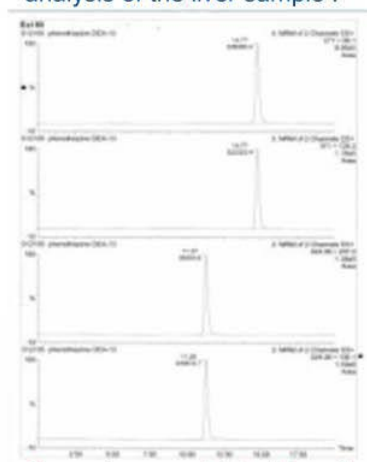


From left to right: brain, liver, heart, lung, and muscle prior to homogenization.



From left to right: brain, liver, heart, lung, and muscle after homogenization.

LC-MSMS Analysis were conducted on each of the samples. The graph hereby shows analysis of the liver sample :



Thioridazine Recovery: 61%

Cyamemazine Recovery: 73%

Chromatograms obtained from liver sample spiked with 80 ng/ml of thioridazine and cyamemazine

#### MATERIAL AND METHOD

	Brain	Liver	Heart	Lung	Muscle
Weight	0.5g	0.5g	1g	0.5g	0.3g
Water	500µl	500µl	800µl	500µl	600µl
Kit	CK28	CK28	CK28	CK28	MK28
Protocol	6500rpm 1x23 sec.	6500rpm 1x23 sec.	6500rpm 1x23 sec.	6500rpm 1x23 sec.	6500rpm 1x23 sec.



#### CONCLUSION

The Precellys®24 is an ideal tool for the lysis of a wide range of samples. It is not only easy to use but also ensures no cross contamination, and saves time compared to manual grinding.

For more details, please contact [precellys@bertin.fr](mailto:precellys@bertin.fr) or visit our website



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