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NEW GENERATION Tissue homogenizer

SAMPLE PREPARATION & CELL LYSIS



precellys 24
lysis & homogenization

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.

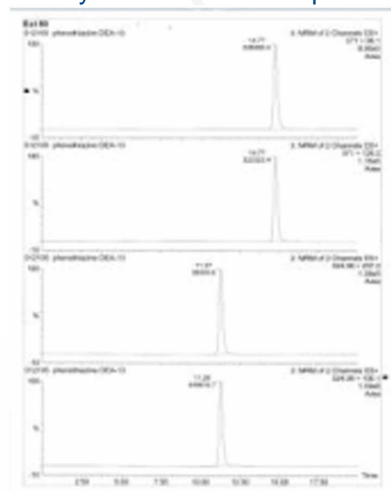


From left to right:
brain, liver, heart,
lung, and muscle
after
homogenization.

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.

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

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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.

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