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Precellys®24

Drug analysis in animal tissues

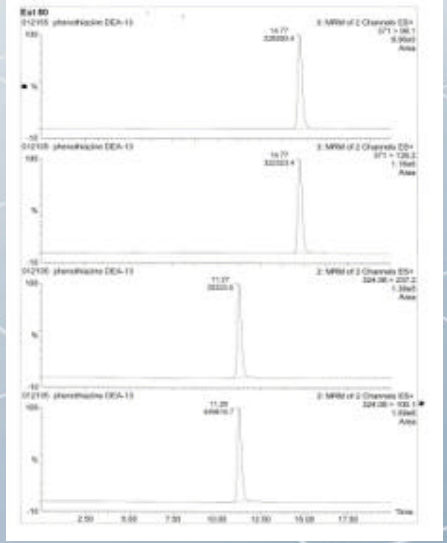
precellys 24

Applications

Within the context of drug analysis in the toxicology field, the responsability 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 molecule regarding constraints of time, cross-contamination and volume of sample.

Material and method

	Brain	Liver	Heart	Lung	Muscle
Sample	0.5g	0.5g	1g	0.5g	0.3g
Buffer	500µl H_2O	500µl H_2O	800µl H_2O	500µl H_2O	600µl H_2O
Kit	ceramic beads 03961CK28	ceramic beads 03961CK28	ceramic beads 03961CK28	ceramic beads 03961CK28	metallic beads 03961MK28
Protocol	Precellys 24 1 cycle 6500 rpm 23s	Precellys 24 1 cycle 6500 rpm 23s	Precellys 24 2 cycles 6500 rpm 23s	Precellys 24 2 cycles 6500 rpm 23s	Precellys 24 2 cycles 6500 rpm 50s
Analysis	LC-MSMS	LC-MSMS	LC-MSMS	LC-MSMS	LC-MSMS



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

Results in collaboration with the Laboratory of Pharmacology - CHU Bordeaux

- time saving compared with manual grinding
- easy to use
- no cross-contamination
- Analysis of liver sample by LC-MSMS : Thioridazine recovery 61% and cyamemazine recovery 73%

For more details to adapt your own protocol, please contact us at precellys@bertin.fr

See also www.precellys.fr

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