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ACCEPTED MANUSCRIPT

Study of sample preparation for determination of endocannabinoids and

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Abstract

Endocannabinoids are lipids with a key role in physiological processes such as the

immune response or the metabolism. This involvement explains their association to

pathologies such as cancer, obesity or multiple sclerosis. The determination of

endocannabinoids constitutes a challenge for clinical laboratories due to the variety of

biological matrices and the wide range of concentrations at which they can be found.

This research deals with the comparison of three sample preparation strategies (viz., on-

line SPE, off-line SPE for interferents removal, and protein precipitation) for

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