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On the use of fast-HPLC-DAD for the analysis of cannabinoids: A quantitative method

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When it comes to cannabis analysis, forensic laboratories tend to use GC-MS, as they do for several other type

of drugs. Even though GC offers a lot of advantages, it suffers from limitation when thermally unstable products are analysed, which is the case for THC-A and Δ9-THC. Both compounds do degrade in the GC injector. A fast-HPLC-DAD methodology was then proposed to achieve efficient separation of major cannabinoids within 5 minutes and offer a proper quantification of THC in plant extracts.

Validation procedure according to international norms was also processed and very good accuracy was pointed out.

Biography

Celine Burnier got a master degree in forensic sciences, in the area of Chemical Criminalistics, obtained at the Ecole des Sciences Criminelles of the University of Lausanne, in Switzerland. Her main research area are drug analysis and microtraces. She is currently leading her PhD on condom traces and their analysis in rape cases.

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