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## **Rapid Sample Extraction for Analysis of Cannabinoids, Pesticides, Mycotoxins and Terpenes in Cannabis**

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**Abstract:** Due to the complex nature of the cannabis plant, a complete and reliable analysis of the compound classes of interest can be difficult to achieve. The first step for these types of analysis is to ensure a complete extraction of the desired compounds. These extraction methods often have to be tailored to each specific application and sample, and are often time-consuming manual methods. Herein, a simple automated pressurized fluid extraction method for fast, efficient, and reproducible extraction of the cannabis plant and cannabis infused samples will be discussed. One simple extraction process can be applied to all, and can be done in under 10 minutes per sample for fast and reliable results. The extraction of cannabinoids, pesticides, mycotoxins and terpenes from mixed samples including flower and edibles will be addressed. This extraction method will be shown to yield good recoveries and reproducibly for a complex set of compounds and samples. Ultimately providing a simple process to determine constituents and contaminants in cannabis and cannabis containing products to labs worldwide.