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The Extraction and Analysis of Cannabinoids using a New Simple Platform

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Abstract: With the increasing legalization of cannabis throughout the United States, there is a need for the analysis of the cannabinoid content in cannabis plant material and products. Cannabinoid content is an important measurement for these products because it influences the legality of the material and its purpose, medicinal or recreational, which in turn affects the price of the product. The analysis of cannabinoids is typically done using HPLC-UV systems. Within this work, a new HPLC-UV system developed by Lucidity, the miniLC, was used to analyze cannabinoids extracted from cannabis infused products via the CEM EDGE System. Good recoveries and repeatability were achieved in a rapid and simple automated extraction. Good separation of the cannabinoids for accurate analysis was also achieved on a small and easy to use HPLC-UV. Thus, the EDGE with the miniLC is an excellent option for cannabis laboratories seeking a simple solution for cannabinoid analysis.