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Producing Safe and Compliant Extracts and Isolates of Cannabinoids using Eco-Sustainable Separation Technologies

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Abstract: The future of the hemp/cannabis industry is dependent on having the ability to ensure consumers safety by consistently producing regulation-compliant formulations of extracts and isolates. Carbon dioxide is a non-flammable, non-toxic, FDA approved substance used in proven CO₂ extraction (SFE) and CO₂ Separation (SFC) technologies at research and industrial scale in Pharma and Food Industries. We will review the workflow of hemp/cannabis sample processing from biomass drying to final product and exemplify the importance of SFE and SFC to deliver full spectrum extracts and minor cannabinoid isolates at >99.7% purity. A newly developed and cost-efficient design combining SFE and SFC in a single instrument to expedite the production of clinical grade ingredients will be examined. With operational costs 4-8 folds lower than over techniques and being an environmentally friendly process, SFE and SFC are essential components for successful scientific research and production at scale.