BY: Infinity Supercritical Staff TAGS: Supercritical CO2 Oil Extraction, Cannabis, Flash Chromatography

Flash Chromatography for Separation of THC, Terpenes, and Cannabinoids

http://www.infinitysupercritical.com

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Distillation is commonly used to purify and separate liquids. In the Cannabis industry, this is typically done by thin film or simple distillation, which uses heat to vaporize (evaporate) components, which are then condensed into fractions. Those fractions (THC, CBD, and Terpenes) can then be recombined for a recipe, or signature oil which can be used for concentrates (edibles) or vape pens. The new technique is called Flash Chromatography.

http://www.biotage.com/news/effective-cannabinoid-purification-by-flash-chromatography

What is Flash Chromatography ?

Flash chromatography is a method to easily separate complex mixtures of compounds. It is based on column chromatography, which is a technique to purify (separate) compounds based on polarity and hydrophobicity. Separate occurs between differential partitioning between mobile and stationary phase. Introduce a liquid (Cannabis oil extract) and this separation technique will result in THC, Cannabinoids, and Terpenes.

http://static1.buchi.com/sites/default/files/microsite/downloads/Process_Flyer_A4_en_final.pdf

How Can I Use This In My Extraction Process ?

If you already have a CO2 extraction system, you will need to winterize your crude oil, then it will be ready for Flash Chromatography. As you identify the components to separate, the machine will automatically identify and then target components to separate into different vials. You can then recombine these separations in to recipes (for example, 10 percent THC, 85 percent CBD, and 5 percent terpenes). Using this method you can make custom vape pens, or concentrates.