



# UPSTATE ELEVATOR SUPPLY CO

## The Ins and Outs of CBD Extraction -- and Why it Matters

Extraction is the process CBD makers use to remove the good stuff from the industrial hemp plant. In this primer, we give a high level overview of the most common methods for extraction, what they're known for, and why they're used. We also include notes on how to ensure you are buying high quality CBD products and suggest some of the ones we make here at Upstate Elevator Supply Co.

Method	Lipid Infusion	Solvent Extraction	Nano-encapsulation	CBD Isolate	CO2 (carbon dioxide) Extraction
<b>Overview</b>	Lipid-based extractions absorb plant compounds into a lipid or fat by applying pressure, heat, and time.	A common extraction method that uses a solvent, most commonly ethanol (alcohol), and a process of refinement called chromatography to further separate cannabinoids from unwanted lipids, waxes, and plant sugars.	An ultrasonic extraction method that compacts the CBD compound into very small (<300 nanometer) particles.	CBD isolate is a pure crystalline form of CBD that is made by refining full spectrum hemp oil until all other plant compounds and cannabinoids are removed. This is a rigorous process that requires specialized laboratory equipment to ensure quality and purity.	CO2 extraction uses heated and pressurized CO2 to create a superfluid which pulls CBD and other cannabinoids from the hemp plant. The extractors can be run at supercritical or subcritical pressures. They require a higher level of chemistry know-how and a refined technique.
<b>The Lowdown</b>	Products made with lipid extraction can capture a greater portion of the plant material than other methods. They tend to have a slightly shorter shelf life due to the expiration date of the oils they are made with.	This is a common, high throughput method of extraction that results in a very clean, balanced full spectrum hemp oil that is highly representative of the starting plant material. Natural, organic solvents are best -- avoid solvents like petroleum, butane, or naphtha, which can leave behind toxic residue.	Products made using nanoencapsulation can bypass your gut and be absorbed directly into your bloodstream, so you may not need as high of a dosage as you do with other types of products. The smaller the particles, the more potent they are.	Products made with CBD isolate are guaranteed to contain non-detectable levels of THC for people who may be drug tested. They also provide a less herbaceous flavor profile for CBD edibles and beverages.	This method results in pure, concentrated extractions that contain CBD and other cannabinoids. CO2 extraction is notable for its ability to pull out specific cannabinoids and terpenes in different fractions, but at the cost of low throughput.
<b>How Upstate Elevator Supply Co. Does It</b>	Our proprietary lipid infusion process uses a coconut oil or MCT oil base to draw the fullest possible spectrum of active compounds from the hemp plant.	We use a proprietary, closed-loop ultra-cold organic ethanol extraction methodology. Maintaining cryogenic temperature through the entire extraction process preserves the phytocannabinoids, terpenes, terpenoids, and flavonoids within the plant.	Our proprietary method encapsulates CBD into tiny micellar structures -- we aim for aim for particle sizes in the 80 - 150 nanometer range -- for maximum absorption, potency and stability. This is similar to the technique that is used by pharmaceutical companies.	We source our CBD isolate from trusted lab partners who meet the highest standards for clean cannabinoid production.	UESC no longer offers CO2 extracted products as we have found the process to be too inefficient when compared to other extraction methods.
<b>Upstate Elevator Supply Co. Products to Try</b>	Full Spectrum CBD Capsules (30mg, 50mg, Blister Packs), Full Spectrum CBD MCT Oil (Natural), Extra Strength CBD Coconut Oil	Organic Full Spectrum Lemon CBD MCT Oil (Lemon and Peppermint), Organic Full Spectrum Capsules (30mg, 50mg, 75mg), CBD Revitalizing Body Lotion, CBD Sore Muscle Rub, CBD Soothing Muscle Cream, CBD Stress Less Roll-On	CBD African Ginger & Mexican Lime Soda, CBD Raspberry Hibiscus Lime Seltzer, CBD Black Cherry Lemon Seltzer	CBD Gummies, THC Free CBD Capsules, THC Free MCT CBD Oil	N/A

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