premium cannabis products
holoh.co  @holoh_co

SEE DIFFERENTLY

holoh:
how we are different

HOLOH's mission is to provide Arizona Medical Cannabis patients, and hopefully soon recreational patients, the highest quality and purity in extracted oleoresin products. We believe that there is a right way to make extracted products and we take pride in doing things in a safe and responsible way. We specialize in hydrocarbon extracted concentrates in both Cured and Live Resin form factors. Our lab in Payson is specifically designed for Hydrocarbon extraction, where we use only laboratory grade gases, and all of our lab personnel are trained and certified in safe Gas Handling and Hydrocarbon Extraction. Our Hydrocarbon system is in our eyes one of if not the “beest” multi-gas extraction systems in the industry and we have customized our unit even more making it unique to our needs and processes. We also conduct in depth lab testing on all of our products and provide those tests to our patients directly thru every products' individualized QR code. HOLOH's testing standards pre-date the up and coming Nov 2020 testing requirement the state of Arizona has passed and finally included in the current medical cannabis program, however we have always believed that all cannabis products should all be tested before patients use them to medicate.

features, function, benefit, proof

One of the features of our extraction system that allow us to separate ourselves are the mechanical filtration capabilities within our system. This is mainly through our temperature controls for our system (thru our dewaxing column and specific filtration mechanisms), that grab unwanted lipids (fats) and wax bodies, which can contain many of the heavy metal(s) pesticides and fungicides, and are the constituents that patients should not be inhaling/vaping in large amounts. Our process does remediate those unwanted constituents from the oleoresin after extraction and our ability to control (cryo) temperatures (colder the better) allows us to extract selective cannabis compounds and not pull more from the plant than is needed. Our system and specific post extraction processes allow us to remove any unwanted compounds that are in the extraction solution. These processes need to be conducted in a laboratory environment and should only be done by trained lab professionals with very specific equipment ran in a very precise manner.
product production

We currently run a Closed Loop Hydrocarbon System, you will see this referred to as a CLS, within our CLS we have the ability to run a variety of Hydrocarbons, referred to as HC’s. The HC’s that we will be using to extract are, Isobutane (lighter molecule than N-Butane or blends) which is known to extract more terpenes, terpenoids and flavonoids. Terpenoids are themselves a hydrocarbon and have been known to be used as a solvent themselves, while flavonoids are phenol (form of alcohol) groups in chemistry speak.

We use a combination of multiple hydrocarbon gases to achieve our selective extraction of cannabinoid and terpene fractions. These include 70/30 butane/propane mix, an isobutane and an n butane, and finally a propane. These are all used to obtain different qualities in our extracted material. Some allow more terpenes to be retained, while others don’t pull so many plant waxes and fats, some leave behind plant coloration.

N-butane, the -N- prefix refers to normal butane and helps to distinguish itself from its isomer (same compound but having a different structure). N-butane comes in three different grades, for our purposes we use research grade, this is a 99.99% pure compound and helps with residual buildup of unknown (at this time) compounds (such as heavy metals) to build up inside of our recovery tanks.

70/30 Butane/Propane blend is the most commonly used HC solvent in our industry at this time, the combination and/or blend of these to allow for a consistent extraction of the plants essential oils while producing a considerably decent return on the terpene profile as well.

It is worth noting, like with any extraction/distillation chemistry, these compounds are being placed under extreme pulling forces through combinations of temperature and pressure. When this occurs, like with the blended mix, it is common to end up with recombinations of hydrons and carbons, which leads to the creation of other solvents such as Pentane (five carbon chain) and hexane (straight chain alkanes). This is not something that can be stopped but can be fine-tuned as well as refined from the recollection of the hydrocarbon gases, by using the correct type of molecular sieve beads than can capture these newly formed long-chain hydrocarbons.
cured products

HOLOH’s Cured Products are concentrates (oleoresin extracts) produced from cured plant material (biomass). Cured flower refers to the drying and aging steps that the flowers Phyto cannabinoids (primary cannabinoids) and terpenes undergo to achieve a “peak” flavor, while every strain has a varying amount of time that it must undergo the drying and curing to achieve its optimal finished flavor. There are many different techniques for curing flower, however when processing flower/trim into extraction a shorter harvest to process date is optimal. This is due to the fact that terpenes are highly volatile and immediately begin to lower in % after harvesting the plant, so we process all of flower as close to its harvest date as possible to ensure the highest % of terpenes in the final product.

live products

HOLOH’s Live Products are concentrates (oleoresin extracts) produced from live or “fresh frozen” plant material (biomass). This usually entails flower taken directly off the plant and frozen, which is then kept at temperatures that ensure cannabinoid and terpene preservation until its processed. Live Products allow for the extraction of a much larger bandwidth of terpenes, some of which typically do not exists after the curing process mentioned above. Live products must first be flash frozen, in these terms the flash freeze should reduce the viable amount of water that is trapped in a freshly harvested plant, ideal moisture conditions when performing any kind of extraction are less than ten percent, however upon harvesting day one, moisture content in the flowers can be as high as 70%-85%.