



# CANNABIS INTERMEDIATE MANUFACTURING



## THE FUTURE OF CANNA-TECH

**Cannabis is at a crossroads.** As it quickly moves out of the dark, more cannabinoids are finding their way into countless products, pharmaceuticals, nutraceuticals, foods, beverages and ultimately our bodies. We're even learning the effectiveness of cannabinoids for our pets. We are crossing into a new frontier. We have proof now that the plant helps us.

We're not just talking about CBD, the most widely known and consumed cannabinoid. Every day, science is presenting us with new information and insights about other ingredients found within the plant like terpenes, flavonoids and other less prolific cannabinoids. **It's a treasure chest that we are just beginning to open.**

Up to this point, our minimum exposure to cannabis products, both hemp and marijuana, is very basic. It usually consists of raw flower, raw extracts, and oil-based deliveries. This is a common first step in extracting any plant.

Now, things are changing.

As we step into 2020, we are seeing a combination of plants, science, and technology merging into a new industry. Some call it Cannabis 2.0. We believe it's just the next step. And, we are ready for it.

**Volunteer Botanicals** is a cutting-edge company that works with various cannabis extracts and converts them into versatile, dynamic and more bioavailable ingredients that are used in thousands of applications. We are the bridge to next phase of the industry.

**We are an intermediate manufacturer focused on creating ingredients out of cannabinoids and terpenes.**

You can buy ingredients and products from us or we can convert your inventory. This innovative approach will allow non-hemp companies to easily enter the space without changing their current manufacturing practices.

**If you seek quality cannabis ingredients, you will find them with Volunteer Botanicals.**



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## WHO WE ARE



### Volunteer Botanicals

We are an intermediate manufacturer offering a wide variety of conversions to meet the demands of product creators inside and outside of the hemp industry.

We have created a system dedicated to the conversion of cannabis extracts and terpenes into high-quality intermediate ingredients **essentially creating building blocks for product creators.**

We take extracts like cannabis distillates, isolates and crude and turn them into water-soluble powders, pharma-grade flowable

powders and various liquid mediums. We help extraction labs build a bridge to product creators and offer larger, more versatile mediums while helping product creators build the perfect ingredient for their formulation and delivery. We can convert any cannabinoid or terpene depending on the specifications and the needs of the client. Tolling our services allows labs to focus on what they do best. Most batches are custom created, but stock white label formulations are available.

Our systems utilize our patent-pending *(LNS) Lipid Neutralization System* that literally unlocks oil allowing it to behave like a powder. Our liquid formulations utilize a proprietary microemulsion technique locking the extract inside the water column. These innovative mediums are more soluble and more versatile opening the door to the real potential of the industry.

We are currently working with universities studying our formulations as well as multi-national corporations in the development of specific ingredients tailored to their current manufacturing infrastructure.

We also have a line of white-label finished goods for clients building their own brands. Every product can be customized or we can provide stock, finished goods.



## OUR TEAM



### Derek Odette: Chief Executive Officer and Co-Founder

Derek understands the value of the supply chain. His background and experience in manufacturing and distribution lead him to start Volunteer Botanicals. Derek has over 5 years in cannabis and knows it holds the key to healing many ailments. He seeks to create various, effective delivery methods to reach the masses. Like many in the industry, Derek's passion for cannabinoids stem from personal experiences. Derek's loving wife and three kids have been his biggest supporters in the journey.



### Kevin Grisham: Chief Operating Officer and Co-Founder

Kevin has over 18 years of experience in finance and leadership positions. His knowledge of business processes, organizational development and smart growth keep the company on track. Kevin values quality relationships over financial gains. After graduating from MTSU, Kevin spent a portion of his life in Northern California and had first-hand experience watching cannabis relieve the pain for so many people. "Once you see it for yourself, there's no going back. This plant is definitely healing people."



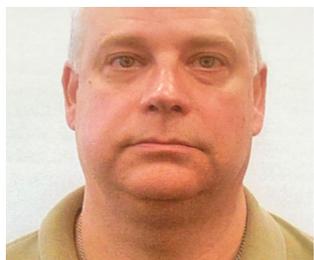
### Jason Pickle: Chief Sales Officer and Co-Founder

Jason has spent his career in a myriad of fundraising, sales, and public speaking roles. His passion for helping others, caring for Mother Nature, and supporting all life on this planet motivates him in his current quest of changing paradigms about the cannabis plant. Jason was born and raised in Tennessee and graduated from MTSU with a degree in Mass Communications. "I believe there has been a grave misunderstanding about this powerful plant for many years. Let's speak the Truth."



### Charlie Livesay: Chief Building Officer

Charlie is the owner of Livesay Properties and has over 20 years of experience in construction, project development, and building design. His attention to detail, quest for perfection and love for quality construction led Charlie to the VB Team. "I'm excited to partner with Volunteer Botanicals to build-out our joint vision as a support system to the cannabis industry in Tennessee." Charlie is constructing the Post-Conversion Facility and many other projects on the property.



### Michael Pappalardo: Chief Science Officer

Michael has over 25 years in various pharma roles and has developed patent-pending processes that create the most innovative delivery methods in the hemp space. Michael's expertise is in tablet and coating technology, modified release, liquid filled soft-gels and 2-piece hard shell caps, taste-masking, wet granulation, ANDA processes, international development/ tech transfers and logistics. Michael is a teacher, innovator, inventor, speaker and has passion for making medicine better.



### Karen Grisham: Chief Pharmacist

Karen graduated from Samford University with Bachelors of Pharmacy and is the Director of Pharmacy at Decatur County General Hospital. With over 20 years of experience she will guide the Volunteer Botanicals team in proper formulation numbers, lab procedures, capsule technology integration, creating verified SOPs, batch tracking, testing protocols and quality controls. Karen has a passion for helping others and believes in giving first.

## CONVERSIONS: EXTRACTS TO POWDERS

### Patent-Pending Powder Applications:

Utilizing our patent-pending *(LNS) Lipid Neutralization System* to powderize plant extracts and terpenes, Volunteer Botanicals can create ingredients out of raw extracts. Once in these powder forms the new dynamic ingredients mix perfectly with other powdered mediums, nutraceuticals, and pharmaceuticals for specific dosing and high potency options. The process is so effective, we can create different powders from isolates, distillates and even crude oils. The same conversion principles work extremely well on plant terpene oils.

- 🌿 **Flowable Powder Cannabinoids** – This advanced technology is used to produce capsules, tablets, chewables, effervescent, and other traditional pharma-grade delivery methods. The granular/particle median size is 112um and has a consistent uniformity with a pharma standard of +/- 2%. Perfect for solid, oral dosing.
- 🌿 **Miscible Powder Cannabinoids** – This talcum-like powder is excellent for baked edibles, thicker beverages like smoothies or even water-soluble capsules. The extracts are locked up within a matrix of USP pharma-grade excipients that are released upon contact of acidic environments such as the stomach and becomes available to the body within minutes. It has a similar consistency and flow as Metamucil fiber powder.
- 🌿 **Flowable Powder Terpenes** – Using our patent-pending technology, we convert plant terpene oils into beautiful, fragrant powder. This is a perfect addition to tablets and capsules. We convert single terpenes or a full terpene oil profile from a cannabis extraction.



# CONVERSIONS: EXTRACTS TO LIQUIDS

## Micro-Emulsions for Liquid Applications

We have the ability to create a liquid emulsion from nearly any hemp distillate or isolate that is used to infuse nearly any food or beverage while imparting little to no additional taste. At concentrations of up to 10% cannabis extract, finding the required potency for your application is easy. Full spectrum products have a light, plant taste.

Though originally designed to infuse water, we are finding many clients are using this formulation for edibles, candies, drinks and as a stand-alone beverage additive, flavored or unflavored. The product is stable and shows no fallout over time. This micro-emulsion is also used to create water-based terpenes. Below you will find our core microemulsions but we can tailor the recipe to fit your desired product application.



-  **Water Based Cannabinoid Micro-Emulsion** – The carrier for this emulsion is distilled water which is easy to use, easily diluted or easily flavored. This works well as a base ingredient in water-based formulations or foods or as a stand-alone “Mio” style beverage additive. It has a slightly cloudy appearance.
-  **Alcohol Based Cannabinoid Micro-Emulsion** – The carrier for this emulsion is either denatured alcohol or ethyl alcohol, depending on the application. These emulsions work great for infusing cocktails or infusing cannabinoids into skin care applications that utilize alcohol.
-  **Water Based Terpene Micro-Emulsion** – The carrier for this emulsion is water and the conversions work incredibly well. Add these water-based terpenes to food, drink, skin care or any unique application. They are extremely fragrant and have a nice light taste, depending on the terpene.

## WHITE LABEL OPTIONS OVERVIEW



Volunteer Botanicals offers white-label solutions. Our conversion technology allows us to create specific, unique ingredients for existing products or provide a fully finished good. We can help nearly any client build new products or convert existing extracts into powerful ingredients. The market is changing quickly. Let Volunteer Botanicals provide you with the next, new delivery method.

We offer exceptional hemp derived ingredients and finished cannabinoid products - Full Spectrum and THC-Free. You can rely on our expansive knowledge, genetics, technology and conversions to ensure your success. Our turnkey solutions allow you to add cannabinoid products to your brand and your customers. We can create a formulation specifically for you or provide you specifically formulated bulk powders.

Our program gives you the ease to focus on building your brand and simplifying the conversion path for your customers. We can customize mediums, strengths, packaging, and flavors to meet your brand's needs.

Why work with Volunteer Botanicals for white labeling?

- ✔ Low minimum orders
- ✔ Always available stock formulations/ products
- ✔ Custom conversions of your raw ingredients
- ✔ Custom formulations depending on order size
- ✔ Custom designed cannabinoid additions to your existing product line
- ✔ Full chain of custody, from seed to shelf

## CUSTOM WHITE LABEL: SOLID ORAL DOSE

### Powder Processing Applications



Our system fits in between extraction labs and products developers. **We work with both.** For example, if a lab wanted to take their extract and build tablets, we would build a plan with potency, size and combo options in mind. Once we decide on the desired delivery we convert, blend and build a specific product that is replicable each time. Labs will often have manufacturers reach out to them for an ingredient they can't immediately provide. We toll our services to labs and act as a product development arm, so they can capture that client.



Product manufacturers outside of the hemp space often need very specific emulsions or powders to work within their existing products. **We can custom formulate.** As the cannabis industry moves forward, the conversion of oils into powders allows for new product creators, new industries and new buyers to enter the space where traditional extracts wouldn't work. Powders are the future of cannabinoids.

### Solid Oral Dose Products

Volunteer Botanicals brings the highest quality solid, oral dose platform exclusively to the hemp industry. We start with a custom extract formulation, product design and use 100% pharmaceutical-grade components for the most versatile and dynamic products on the market. They are safe and they work.

Utilizing our patent-pending *(LNS) Lipid Neutralization System* to powderize plant extracts and terpenes, Volunteer Botanicals can create traditional dose forms comparable to the largest pharmaceutical companies' offerings. From a large variety of stand-alone hemp products to more complex combination products, we can customize a delivery that suits your customers' needs today and while keeping an eye on tomorrow.



*You can trust our in-house chemist that has over 25 years in the pharmaceutical industry and over 5 years in cannabis conversions. Let us convert and create something completely unique for your company.*

## CUSTOM SOLID ORAL DOSE OPTIONS

**We are seeing a movement from oil-based products to more dynamic and bioavailable deliveries.**

This shift is occurring as more doctors, scientists and universities work their way into the industry. While many are fearful of the pharmaceutical industry, we believe that if we continue to develop deliveries from pure extracts, we can maintain the integrity of the plant while merging with science in order to make the delivery more effective. Below you will find examples of our custom Solid Oral Dose options. Every option can be customized.

**Capsules:** Utilizing the *LMS* system, straight hemp product typically go into a Size 3 capsule containing up to approximately 40mg of flowable hemp powder. We can also color code, print logo or text directly on to the capsule for easy product ID.

**Combination Capsules:** Combination products generally go into a Size 0 capsule and could contain up to 350–400 mg of any mix of hemp powder, terpenes, herbal supplement or nutraceutical blend.

**Instant Release Tablets:** Small, Instant release, dissolvable tablets are great for bioavailability. Standard strengths include 10 mg, 25 mg, 50 mg, and 100 mg but are fully customizable. These tablets can be color coded to your liking. For example, the customer could choose between a white tablet for plain hemp, yellow tablet for daytime, blue tablet for night time, and red tablet for energy.

**Chewable Tablets:** Similar to familiar children’s chewable medicine in design, this product was developed to provide a great tasting chewable alternative for both children and adults who have difficulty swallowing traditional medicine. All potency options completely customizable.

**Effervescent Powder:** Custom dosing and flavors available with or without vitamin additions. We offer 25 mg as standard but can customize to suit most requests.

**Effervescent Tablets:** The tablets use the same principle as the powder, just compressed into a tablet, similar to Alka-Seltzer.

**Dry Powder Inhaler:** This unique delivery system uses small capsules containing hemp flowable powder to deliver concentrated powder directly to the pulmonary tract via a dry powder inhaler module. Used as a supplement therapy to boost oral medication, this delivery is fast acting and portable.

**Modified Release:** (coming in late 2020) Designed to provide a once a day therapy for medical patients, this product utilizes “leach technology” to meter hemp into the system over an 8-12-hour timeframe. Using pharmaceutical techniques, it is predictable and replicable. This product is also available as an enteric product by request.

*If you have an idea for a powder application that is not mentioned above, don’t hesitate to reach out to us. Our chemist is always available to discuss how best to utilize these dynamic cannabinoid ingredients.*

## CUSTOM WHITE LABEL: SKIN CARE

### Custom Medicated Topicals and Skincare

When it comes to developing high-end, hand crafted topical products, Volunteer Botanicals is your go-to solution provider. Utilizing an **Active Transport System** to deliver medicine deep within the tissue and muscle mass, products produced by Volunteer Botanicals can provide relief for the indication not easily addressed by other transdermal delivery systems.

Volunteer Botanicals' products are custom crafted to each client's specifications in order to address a specific ailment. Our offerings include luxurious anti-aging, health and beauty products as well as highly effective medical grade topical products. If you have your own topical line, we can help you infuse the most effective cannabinoid formulation for your products.



### Custom Medical Topicals

**Pain and Inflammation Cream:** This soothing, medicated cream is deep penetrating and full of medicinal properties that immediately addresses localized discomfort. A little goes a long way.

**Circulation Enhancing Cream:** This product contains several components known to open up blood vessels and restore usability to extremities while addressing pain and inflammation. Combining plants and science, this cream is truly a single therapy for multiple concerns.

**Soothing Salves:** Salves are a great way to soothe tired and sore muscles as the texture allows for extended massaging and rubbing into the affected area. Salves are primarily wax based and can be customized for each client.

*Volunteer Botanicals' chemist works with the highest quality essential oil manufacturers to provide you custom products, proprietary blends of oils, and custom cannabinoid ratios. If you have an idea for a product, we have a solution. If you would like us to craft a product from our custom list, we can.*

## CUSTOM SKIN CARE OPTIONS

### Custom Health and Beauty Products

**Face Cream:** Our face creams are used to moisturize and tighten skin while reducing puffiness and inflammation. They are safely used on baggy eyes, wrinkles, minor irritations and dry spots.

**Hand and Body Lotion:** A non-greasy general application product designed to soften skin and leave a lasting glow.

**Eye and Face Serum:** A product designed to reduce wrinkles around the eyes and revitalize the skin for a youthful appearance.

**Exfoliant Night-Time Mask:** When applied at night, this product is designed to dissolve dead skin and leave the face fresh and clean. It is recommended to apply at night and rinse off in the morning.

**Lip Balm:** This proven recipe is a favorite of many lip balm enthusiasts. It is soft and easy to apply in stick or balm form. The balm has long duration staying power after application.

**Icy Hot Style Muscle Salve:** We combine the best of both worlds into this unique product. Featuring ingredients that are “icy” to dull the pain while feeling “hot” to keep it away. It is an ideal post workout therapy to keep muscles loose and moving.

**Après Sun Care:** Through the use of peptides and essential oils this product facilitates healing and minimizes the effects of discomfort of excessive sun exposure. Restore and rejuvenate the skin after a long day outside.

**Scar Treatment:** This innovative product is a highly effective medical application coupled with the high-end Health and Beauty functionality. We triple the ingredients of the Apres’ Sun Care product and added components clinically proven to reduce the visibility of scar tissue, both old and new.

**Oily Skin Treatment:** Designed to leave the skin smooth and healthy while unclogging pores and removing excess oil.



# STOCK WHITE LABEL: FULL SPECTRUM EXTRACT

## Full Spectrum Hemp Extract Oil

### Tincture Dropper Bottle

PRODUCT TYPE	
SIZE	OPTIONS
30ml dropper bottle	500mg
30ml dropper bottle	1000mg
30ml dropper bottle	2000mg
15ml dropper bottle	250mg



### PRODUCT DESCRIPTION

Volunteer Botanicals' best-selling product. When people talk about CBD Oil, this is the product they are talking about. The oils have a thicker viscosity with a natural, plant flavor. It is smooth, clean and has no burn. Many clients have moved from other full spectrum oils over to ours based on flavor, efficacy and price.

It's full of minor cannabinoids, flavonoids, chlorophyll, sugars, lipids with tiny traces of THC. Some scientists believe that the most effective way to consume CBD oil is taking the full plant extract. The oil is consumed orally by dropping it under the tongue and holding it in the mouth for 30-60 seconds, then swallow.

**Do not consume if you are taking drug tests.**

### HOW IS IT UNIQUE?

The oil is a blend of 5 different, high cannabinoid hemp strains. The only part of the plant that we extract is the flower. This powerful blend created an excellent and extremely robust cannabinoid profile. Our high potency crude is in the "exceptional range" for raw crude oil.

Our plants move less than 5 miles from our field to Ben Mar International, our state-of-the-art extraction partner. Ben Mar uses cryogenic ethanol extractors with temperatures of -70C. This gentle alcohol wash technique preserves plant oils, cannabinoids, chlorophyll and ancillary plant matter. All oils come with independent COA's (certificate of analysis) to ensure efficacy and compliance. This is TN made hemp oil.

### INGREDIENTS

72% CBD Hemp Crude Oil and MCT Coconut Oil.

# STOCK WHITE LABEL: THC FREE CBD OIL

## THC Free CBD Isolate Oil

### Tincture Dropper Bottle

PRODUCT TYPE	
SIZE	OPTIONS
15ml dropper bottle	250mg
15ml dropper bottle	750mg
15ml dropper bottle	1500mg
15ml dropper (flavored)	1000mg



### PRODUCT DESCRIPTION

This oil is simple, pure, clean and effective. CBD Isolate oil is tasteless, odorless and is 100% THC Free. When extracting hemp down to a CBD Isolate form, all plant material, cannabinoids, terpenes and flavonoids are stripped away, leaving just the CBD molecule behind.

Research shows that the most effective way to consume CBD oil is sublingually (under the tongue). The simplest way to do this is by standing in front of a mirror or dropping the oil onto a spoon and hold it under the tongue for 30-60 seconds, then swallow.

### HOW IS IT UNIQUE?

Our THC-Free CBD oil is from 99.9% CBD molecule. There are no other cannabinoids. We can trace the CBD isolate all the way back to the seed, for a full chain of custody. It's important to know that there is very little regulation in the hemp industry today. Consequently, there are more junk products than quality products.

Rest assured, any of our THC-Free CBD products come from a source that we can track all the way back to the seed.

### INGREDIENTS

99.9% Pure CBD extract from Hemp and MCT Coconut Oil.

# STOCK WHITE LABEL: MUSCLE/ SKIN CREAM

## Botanical Bliss Skin/ Muscle Cream

### Squeeze Bottle

PRODUCT TYPE	
SIZE	OPTIONS
2oz White Squeeze Bottle	Menthol
2oz White Squeeze Bottle	Unscented



### PRODUCT DESCRIPTION

This wonderful skin cream is full of 10 different plant compounds, essential oils and contains 200mg of THC Free CBD. We have two formulations. One contains a proprietary blend of complimentary botanicals that is excellent for skin irritations and may help with eczema, dry skin, acne, blisters and rashes. Our menthol formulation may relieve achy muscles and soothes stiffness in joints, neck, hands, feet or anywhere that is sore. The menthol formulation has a nice, instant cooling sensation. Rub a small, dime sized amount into your irritation and feel the soothing effect of CBD blended with healing plant oils. A little goes a long way.

### HOW IS IT UNIQUE?

We integrate a special Micro Infusion Lipid Technology™ created by a blending and fusion technique which reduces the lipids nearly 1 million times and then infuses the CBD molecule completely into the lipid profile. This process has been perfected over 31 years. Breaking down fat over a million times allows for better absorption through the skin and is easily assimilated through living cells.

### INGREDIENTS

Water, Cannabidiol (CBD) Oil, Olive Fruit Oil, Arnica Flower Extract, Passion Flower Seed Oil, Rice Bran Oil, Acai Fruit Oil, Babassu Seed Oil, Mint Essential Oil, Rosemary Essential Oil, Cetearyl Olivante, Sorbitan Laurate, Glycerin, Caprylic/Capric Triglyceride, Glyceryl Stearate, Phenyl Alcohol, Sodium Stearoyl Glutamate, Ethylhexylglycerin, Fragrance (Parfum\*).

# STOCK WHITE LABEL: FLOWABLE POWDER CAPSULES

## CBD Powder Capsules

### Child-Proof Capsule Bottle

PRODUCT TYPE	
INGREDIENTS	OPTIONS
30 count bottles	20 or 40mg capsules
10 count bottles	20 or 40mg capsules



### PRODUCT DESCRIPTION

Flowable Powders are an extremely innovative and excellent delivery method of cannabinoids. These capsules utilize our patent-pending (*LNS*) "*Lipid Neutralization System*" to produce a pharmaceutical-grade powder with excellent bioavailability. Each size 3 (very small) capsule is packed with either 20mg or 40mg of THC Free CBD in powder form.

We have seen results from this formulation that typical oils and capsules cannot match. These capsules are chemist formulated. They are not the typical oil-based capsules you see in most stores and online shops.

### HOW IS IT UNIQUE?

Our laboratory's patent-pending process is designed to neutralize lipids within botanical extract oils allowing them to behave like a powder. The extracts are locked up within a matrix of USP pharma grade excipients that are released upon contact of acidic environments such as the stomach and become available to the body within minutes.

The capsules take science from the pharma world and combine those principles with cannabis extracts. All ingredients are of the highest quality.

### INGREDIENTS

THC Free CBD Isolate, Di-Calcium Phosphate, Micro-crystalline Cellulose

# STOCK WHITE LABEL: WATER SOLUBLE DRINK DROPS

## Water Soluble CBD “Drink Drops”

15ml Squeeze dropper bottle.

PRODUCT TYPE	
TYPE	OPTIONS
CBD Isolate (THC Free)	375mg
CBD Isolate (THC Free)	750mg
Full Spectrum	480mg



### PRODUCT DESCRIPTION

This unique chemist formulation takes any cannabinoid and converts it into tasteless water concentrate. You can add it to any food or drink without changing the flavor profile. Since the concentrate is now in a water form, the body can readily absorb the molecule without the need for digestion. This product is so effective that it is currently being tested by a local university. If you are not a fan of the flavor of CBD oil, try this as an excellent alternative. **Shake well before each use.**

### HOW IS IT UNIQUE?

Our chemist formulated product utilizes a microencapsulation process that suspends the CBD in the water column to produce our proprietary water emulsion. Microencapsulation is used to enclose solids, liquids, or gases inside a micrometric wall made of hard or soft soluble film, in order to reduce dosing frequency and prevent the degradation of pharmaceuticals. In general, it is used to incorporate food ingredients, enzymes, cells or other materials on a micro-metric scale.

### INGREDIENTS

CBD isolate or Full Spectrum Distillate, Fractionated Coconut Oil, Food Grade Polysorbate 20, Propylene Glycol & Sorbic Acid

# STOCK WHITE LABEL: CBD PET DROPS

## CBD Pet Drops 250mg

15ml Tinctures dropper bottle.

PRODUCT TYPE	
ANIMAL SIZE	STRENGTH
10 lbs	2.5mg – 5mg
20 lbs	5mg – 10mg
30 lbs	7mg – 15mg
100 lbs	25mg – 50mg



### PRODUCT DESCRIPTION

Animals have more cannabinoid receptors than humans and are very receptive to CBD oil. If the oil is used to control pain and inflammation, use every 8 hours and increase frequency as needed for desired effects. If used to control anxiety, treat 30 minutes before a stressful event such as storms, fireworks, or leaving the house (separation anxiety). Frontier Hemp's CBD Pet Drops are 99% pure cannabidiol (CBD) blended with all natural MCT coconut oil.

### HOW MUCH SHOULD I GIVE MY PET?

Finding the proper dosage for animals (and humans) is often tricky and usually takes some experimenting. Research indicates a starting point of .25 mg to .50 mg per pound of body weight. Place the desired amount straight into the animal's mouth, if possible. Otherwise, drop onto your animal's favorite treat or food. You may need to increase the potency from this starting point every 3-4 days until reaching desired result.

### INGREDIENTS

THC Free CBD Isolate Extract and MCT Coconut oil

# HEMP GENETICS: 2019

**Volunteer Botanicals** grows our own hemp. We only work with the most cannabinoid-rich hemp strains to maximize the potency, profile and efficacy of the products we create. Our gardens are small, and our plants are hand grown using clean, organic gardening practices. We focus on taking care of the soil and raising the healthiest plants possible. We let the plants take care of the rest.

We make sure our strains are always grown to perfection, dried properly and cured perfectly. We use a special blend of all 5 of these strains in our Full Spectrum oils. The 2019 varieties are all from Oregon Fusion.



## Suver Haze

Total Cannabinoids 17%  
Total CBD 16%  
Delta 9 THC: .11%  
Total Terpenes: 2.52%



## Hawaiian Haze

Total Cannabinoids 15%  
Total CBD 14%  
Delta 9 THC: N/D  
Total Terpenes: 1.93%



## Elektra

Total Cannabinoids: 19%  
Total CBD: 18%  
Delta 9 THC: .17%  
Total Terpenes: 2.3%



## Lifter

Total Cannabinoids 18%  
Total CBD 17%  
Delta 9 THC: .24%  
Total Terpenes: 2%



## Special Sauce

Total Cannabinoids 19%  
Total CBD 17%  
Delta 9 THC: .14%  
Total Terpenes: 2.13%

## MOVING FORWARD

### Our 2020 Vision is Sharp and Focused.

We believe that cannabinoids and terpenes will play a substantial role in functional supplements, pharmaceutical formulations, and various foods and beverages. We now understand that basic extracts like cannabis crude, distillate and even isolates still require conversion before they can become an appropriate ingredient with most formulations. We aim to provide custom, consistent, reproducible, and versatile cannabinoid-based ingredients.

Our focus is on conversions and creating the most potent and effective cannabinoid ingredients available today.

**Our 2020 vision is to complete the supply chain.** Input farms will feed biomass material to our extraction partners. We will take the extract and convert it into virtually any specific application that meets the specific needs of a manufacturer, while not infringing on their Intellectual Property or manufacturing practices.



We are currently building a new **Post-Conversion Facility** in middle Tennessee scheduled for move-in summer 2020. Our goal is to build the bridge from the cannabis industry to the manufacturing and medical industries.

Our sister site in Pennsylvania has scaled up this year as well. When you work with Volunteer Botanicals, you gain access to our Chemist and Chief Science Officer whose lab creates the same conversions and formulations ensuring site-to-site redundancy. As we move forward and build contracts for our manufacturing partners, you can have confidence that if one site goes down for any reason, the second site has full capability to take over production.

With 99 acres of land available and a contractor as our business partner, we have the ability to **expand quickly and scale operations as needed.**

Within the next year, our focus is on cannabinoid education and the creation of cutting-edge ingredients. We also plan to launch our **“Hemp Learning Center”** initiative in order to share research, build cooperative communities within the industry and move us closer to personal, customized cannabinoid medicines.

The future is here and we are creating dynamic, effective ingredients from the cannabis plant. This is where science and technology merge with cannabis. **Volunteer Botanicals is ready for the next phase, are you?**



## CONTACT US



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