

# OnPoint Terpene Formulations

## SAMPLE PRODUCTS AND DESCRIPTIONS

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## OnPoint Terpene Formulations

Since 2018, Point 3 Biotech has been researching and extracting full spectrum terpenes to create and distribute scientifically designed formulations.

We provide customizable terpene concentrates to our partners and Licensed Producers (LP's). We further assist our partners in creating premium vape, oil, and edible products that taste great while amplifying the desired properties of cannabis.

Using proven science, we can recreate terpene profiles/flavours of any cannabis strain and also provide terpene formulations to improve the efficacy of topical or aromatherapy products.

## Available Vape Pen Profiles

The current sample list of available Vape pen formulations is below (see additional documentation on the next page for more detailed descriptions).

### Full Spectrum Terpene Formulations

The diversity and range of the bioactive compounds found in full spectrum terpenes does not exist in terpene 'isolates' produced from single botanical sources. Given our research on extracting full spectrum terpenes from Hemp plants, our OnPoint formulations **contain full spectrum Hops terpenes with an additional 25+ botanical terpenes in the same ratios found in our farmed hemp formulations**. Therefore, they closely mimic our Hemp-based formulations but do not have any trace of hemp or cannabinoids.

#### Original Full Spectrum 'Directional' Formulations

- 4Awake (Sativa Dominant Terpene Profile)
- 4Calm (Hybrid Dominant Terpene Profile)
- 4Sleep (Indica Dominant Terpene Profile)

#### Strain-specific Full Spectrum Formulations

- Granddaddy Purple (Hybrid Dominant Terpene Profile)
- Ghost Lime (Sativa Dominant Terpene Profile)
- Obama Kush (Indica Dominant Terpene Profile)
- Tomford Islands Pink (Sativa Dominant Terpene Profile)
- Sour Tangie (Indica Dominant Terpene Profile)
- Sunrise Surprise/Pina Colada (Sativa Dominant Terpene Profile)

### **Flavour Specific Terpene Formulations (not Full Spectrum)**

Our flavoured-specific terpene formulations have been developed to enhance a flavour profile rather than a full-bodied cannabis experience that generally comes from the full array of cannabis terpenes. Thus, they do not contain full spectrum terpene formulated monographs. Flavoured Formulations come in two variations: A) Full Flavour or B) a more cost-effective Basic Flavour profile. Full Flavour formulations contain a complex mix of several terpenes, esters, ketones, lactones etc., to duplicate a specific flavour profile best. In contrast, Basic Flavour profiles focus only on a handful of ‘top note’ terpenes and have a limited number of flavours that are complementary with either an Indica, Hybrid or Sativa strain of cannabis.

- Berry (red berry, a combination of strawberry and raspberry)
- Citrus lemon (can be more sour lemon or like a lemon drop candy)
- Citrus Orange (like above but with more orange focus)
- Apple (green apple, tart and sweet)
- Grape (purple grape, almost like the jolly rancher flavour)
- Pinã Colada
- Peach or Peaches & Cream
- Pineapple
- Carmel

*Please note that flavour profiles can be added to most full spectrum formulations.*

## Direction, Flavor and Theory

The diversity and range of the bioactive compounds found in full spectrum terpenes does not exist in terpene isolates produced from single botanical sources, which is why, all our formulations use a full spectrum terpene approach.

Research has shown that the terms ‘Indica’ and ‘Sativa’ are outdated ideologies not backed by science. It’s well known in the industry that the terpene profiles in cannabis accentuate the specific response. However, the terms to classify cannabis strains remain popular by the average consumer. Therefore, we have included the terpene profiles below that drive an Indica, Sativa, or Hybrid response.

*Please note that Health Canada has not approved these formulations and ‘directions’ are based on anecdotal evidence from product trials when developing the formulations. No specific reference to these directions should be claimed on any product information.*

### Original Full Spectrum ‘Directional’ Formulations

These three formulations amplify the desired properties of cannabis which is referred to as the “entourage effect.” They contain full spectrum Hops terpenes with an additional 25+ botanical terpenes in the same ratios found in our farmed hemp formulations.

#### 4Awake (Sativa Dominant Terpene Profile)

This formulation exemplifies the Sativa theory of a terpene blend that **drives mental and physical awareness**. The top three terpenes, p-cymene, a-pinene, and d-3-carene, all bring on intense feelings of energy and mental capacity. The earthy flavours are balanced by adding some peppermint and a bit of sabinene. We have also managed to help reduce the common side effect of ‘Sativa paranoia’ by adding b-caryophyllene, which helps lessen the erratic feeling some people experience with Sativas.

#### 4Calm (Hybrid Dominant Terpene Profile)

This formulation takes the hybrid narrative and attempts to **dissect the erratic body energy from the high and keep the mental energy**. To this end, the terpene blend needed a mix of anxiolytic, hypnotic, and Acetyl-CoA inhibitors to avoid typically heavy sedative terpenes. We balance this by using d-limonene, a-pinene, and eucalyptol terpenes. The combination of these terpenes has a crisp fresh taste with ‘hints of the earth.’ The development of this formulation was inspired by a desire to emulate Adderall’s efficacy since it is such a prolific and abused drug in today’s society, especially by university students.

#### 4Sleep (Indica Dominant Terpene Profile)

The Indica theory was taken to an extreme with this formulation. We used current scientific literature to boost all terpenes **to aid in better, higher-quality sleep**. It is one of our more popular formulations. Classic terpenes include b-myrcene, and linalool are paired with more niche sedatives such as terpinolene and citral (which have studies on their efficacy in increasing sleep duration). We then balance these terpenes with the calming anxiolytic benefits of d-limonene.

## Strain-specific Full Spectrum Formulations

We were approached by LP's and Cannabis Processors to create full spectrum terpene formulations to recreate popular cannabis strains based on our years of research. These strain-specific terpene profiles complement vape and oil products containing cannabinoids like THC and CBD. With the addition of our all-natural flavouring agents, our partners can create unique tasting products that better deliver the desired response. Moreover, using science, all of our high-quality formulations can be perfectly duplicated batch-after-batch to ensure a consistent product.

### Granddaddy Purple (Hybrid Dominant Terpene Profile)

We incorporate naturally occurring ketones and esters to impart a unique flavour with an underlying hybrid direction. This formulation makes for a great “hanging out playing video games” type of experience. The balance of D-limonene, A-Humulene, D-3-carene, among others, provides ideal baseline energy while esters such as methyl-anthranilate, ethyl butyrate impart a unique grape flavour that makes this formulation directional with great taste.

### Ghost Lime (Sativa Dominant Terpene Profile)

A strain profile recreation, this formulation took one of the classic cannabis strains and recreated it with an emphasis on its full spectrum Sativa direction and citrus edge. A blend of potent Sativa terpenes including eucalyptol, p-cymene and d-3-carene provide good energy and direction while being supported by a beautiful citrus flavour due to its citral and d-limonene components. Combining strain and directional terpenes, this formulation is popular for those who like to take walks while consuming cannabis.

### Obama Kush (Indica Dominant Terpene Profile)

Another requested strain profile takes as much Indica direction as possible while still maintaining a unique ‘earth flavour.’ Much like the cannabis strain is known for, the Indica terpenes Linalool, b-myrcene and particularly nerolidol bring on heavy waves of ‘couch-lock.’ This is one of our most widely sold formulations.

### Tomford Islands Pink (Sativa Dominant Terpene Profile)

A pure full spectrum strain recreation is made from many analytically tested terpenes derived from concentrated strain yields. Far too many terpenes to list make this strain (among others of the same theory) something of an enigma in the current market. With a Sativa edge but one that is balanced out with a cohort of other terpenes, this strain has a clean and fulfilled high.

### Sour Tangie (Indica Dominant Terpene Profile)

Sour Tangie is another pure full spectrum strain recreation was taken from a concentrate with a request for more potent Indica dominant effects. The supporting cast of 15+ terpenes helps to make the high not only sedative, but it has the underlying taste to make it close to the plant as scientifically possible. The flavour is much like the name, where it has a (pleasantly) sour edge with a relaxing sweet finish.

### Sunrise Surprise/Pina Colada (Sativa Dominant Terpene Profile)

Our first published flavour-focused strain was our most challenging profile to create. Using a blend of esters, aldehydes, and ketones such as  $\gamma$ -octalactone, allyl caproate, vanillin and ethyl maltol, to name a few, we managed to create a formulation that will keep you coming back for more. The often requested formulation takes a strong full spectrum Sativa stance but manages to hide those flavours under a fantastic recreation of a classic summer drink. However, this is balanced with solid direction with  $\alpha$ -pinene, b-caryophyllene, p-cymene and other Sativa-oriented terpenes. The theory behind this formulation was complicated and took time. This beautifully blended profile manages to balance direction and flavour.

## Directional Tincture/Oil Profiles

The current list of available **scientifically designed** “Directional” formulations are below.

Given the success of our full spectrum hemp formulations and the current restrictions of hemp products in some jurisdictions and occupations, we have developed an additional ‘Hemp Free’ line of our formulations. These formulations contain full spectrum Hops terpenes with an additional 25+ botanical terpenes in the same ratios found in our farmed hemp formulations. Thus, they closely mimic our Hemp-based formulations but do not have any trace of hemp or cannabinoids.

Contact us for pricing.

*Please note that Health Canada has not approved these formulations, and ‘directions’ are based on anecdotal evidence from product trials when developing the formulations. No specific reference to these directions should be claimed on any product information.*

### Original Full Spectrum Hops-based Directional Formulations:

- **4Kick** - formulation to help give the effects of your Cannabis a Kick of clarity.
- **4Sleep** - to help individuals sleep deeper and longer during the night when taken 30 minutes before bed.
- **4Chill** was designed to reduce anxiety and can be taken when feeling anxious or when desiring a calming effect.
- **4Focus** assists individuals with ADHD symptoms to better concentrate on tasks, especially when taken with a quality source of CBD’s.
- **4Wellness** has been designed to be a Daily formulation to help with inflammation and overall general health.
- **4Immunity (With Vitamin D)** is a formulation with specific terpenes that have been shown to regulate the body's immune system.

## Terpene Infused Emu Oil Topicals

OnPoint 4Pain Terpene Infused Emu Oil Topicals contain full spectrum Hop terpenes with an additional 25 botanical terpenes. Our Canadian sourced Emu oil effectively absorbs into the skin, making it a terrific synergistic carrier oil for our targeted terpene topical blends. The small particle size allows the oils to penetrate deeper into your skin and carries other ingredients with it, like our terpene formulations.

Our topical creams are very effective on their own. However, adding cannabinoid oils that contain a high ratio of quality CBD to these topical solutions can increase the effectiveness even more.

Emu oil contains compounds (such as oleic acid, palmitic acid, linoleic acids and antioxidants) which can help fight inflammation, dry skin, high cholesterol and more. Pure Emu Oil is an excellent source of essential fatty acids, Vitamin A, Vitamin E, and Sapogens (skin softeners). The oil does not contain bacteria, steroids and any added hormones.

- **4Pain** - A topical designed with anti-inflammatory terpenes to help ease muscle pain and inflation.
- **4Spots** - A topical terpene blend solution to help with skin blemishes and irritations.

**Contact us for pricing.**

## Terpene Aromatherapy Blends

OnPoint Terpene Aromatherapy blends are a mixture of terpenes with strong scents to help get you in the mood to relax and focus. Add a few drops of our terpene blends to an essential oil room diffuser (or cloth) to fill a room with great scents of a carefully constructed combination of terpenes.

- **BC-Forest Shinrin-Yoku Aromatherapy Blend.** Full spectrum terpenes from a Douglas Fir tree with added botanical terpenes found in the forest. This blend recreates the scents one experiences while 'Forest bathing' or what the Japanese call Shinrin-Yoku.
- **4Brain** - is a mixture of botanical terpenes created around the benefits of Pinene that is an excellent choice for aromatherapy to help you focus on tasks.

**Contact us for pricing.**