

## What makes CannaBuDs different?

The lifecycle of the plants and products is entirely under our supervision from start to finish. We grow the plants in our own greenhouses from seeds using live soil for nutrients and armies of good bugs for pest management. We harvest, process, and dry all our top crown flower and biomass in our own climate-controlled facilities. Our manufacturer uses premium ethanol for our extraction and the physical laws of nature for our distillation. That's it. We grow a specific Hemp variety high in CBG content. No other substance touches our CBD or CBG oil from the moment it's harvested and dried until it gets mixed into our final products. Every batch of hemp and every lot of every product is tested by an independent laboratory for quality control and dosing consistency, coded, and logged into a database. We grow the plants, we oversee the process of oil extraction, we oversee the manufacturing of the goods, our name is on the label. Quality and consistency are essential to make sure our customers gets exactly what they need and expect every time; no more, no less.

## ANCIENT REMEDIES REVISITED.

We believe that in most cases, natural remedies and holistic therapies are better for our body, mind, soul, and the Earth than man-made pharmaceuticals. Stress and anxiety run rampant in modern society. Chronic pain and general inflammation diminish the quality of life of tens of millions of Americans every day. We know our hemp-derived CBD/CBG products, grown by our hands and processed in licensed and certified labs, can help people deal with both of these common causes of disease and live happier, more satisfying lives.

If we can ease people's minds, nudge them towards a sense of peace, or reduce their physical discomfort and stiffness through natural means, we want to do it. When our CBD/CBG tincture reduces someone's anxiety so they don't need prescription mood-stabilizers to get through their day, that's why we grow it. When CBD/CBG tincture gives you the best sleep you've had since the kids were born, that's why we grow it. When our CBD Topical Body Butter makes a grandmother's knees feel good enough to play outside with the grandkids or it loosens up your dad's back enough to get him through the 18th hole, that's why we grow it. And we want to do it in a healthy, holistic way. CBD Medicinal Topical Salve for minor burns, cuts, scrapes or compromised skin issues quickens healing and reduces scarring for better overall health and well-being. That's the reason we grow it.

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## A CLOSER LOOK AT CBG and WHAT IS IT ?

Often referred to as a "mother cannabinoid," CBG is the organic compound that CBD and several other cannabinoids originally started as. Inside cannabis plants, CBG is in its cannabinigerolic acid (CBGA) form and acts as an elementary unit to several other cannabinoids.

Plant enzymes in maturing cannabis plants convert most of their CBGA into the acidic forms of CBD and THC – CBDA and THCA respectively.

A process called decarboxylation, which occurs when the plant matter is exposed to ultraviolet light or heat, converts those acids into CBD and THC.



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## What Is Cannabigerol (CBG)?

Cannabigerol (CBG) is a type of cannabinoid obtained from the cannabis plant. It's often referred to as the mother of all cannabinoids. This is because other cannabinoids are derived from cannabigerolic acid (CBGA), an acidic form of CBG.

CBG is found in smaller quantities than other cannabinoids in cannabis plants. In most strains of the plant, only 1% of CBG can be found compared to 20 to 25% of CBD

This makes consumer products derived from the cannabinoid rare and often expensive. However, CBG is growing in popularity as a result of the host of potential benefits the cannabinoid has to offer.

## How CBG Works

CBG is processed by the body's endocannabinoid system. The endocannabinoid system is made up of molecules and receptors in our bodies that are responsible for keeping our bodies in an optimal state regardless of what's going on in our external environment.

In our bodies, CBG imitates [endocannabinoids](#), the natural compounds our body makes.

Our bodies contains two types of cannabinoid receptors—CB1 and CB2. CB1 receptors are found in the nervous system and brain, while CB2 receptors are located in the immune system and other areas of the body.

CBG works by binding to both receptors where it's thought to strengthen the function of anandamide, a neurotransmitter that plays a role in enhancing pleasure and motivation, regulating appetite and sleep, and alleviating pain. Unlike THC, CBG has no psychotropic effects, so it will not give you a high.

Cannabis is a complex plant with a symphony of more than 400 compounds, such as cannabidiol (CBD), cannabigerol (CBG), secondary phytocannabinoids, terpenes, terpenoids, flavonoids, fats, and waxes, among others. The way CBG interacts with our endocannabinoid system is different from CBD. CBG binds directly to both CB1 and CB2 receptors and might be more efficient at delivering its benefits into our systems.

All these compounds act synergistically to enhance the beneficial effects of cannabidiol and create what's called an "**entourage effect**". You're not only getting the benefit of CBD itself but you're also getting the benefit of all the complementary compounds that are naturally found with it. That's our full-spectrum CBD/CBG distillate, golden-colored like ambrosia with a consistency of cold honey. You can think of full-spectrum distillate like pulpy orange juice. The natural, healthy vitamin C you're looking for ... AND everything else Nature put in that fruit to make it so good for us.

## Antibacterial Properties

A 2020 study on the antibiotic potential of cannabis, found that CBG has antibacterial properties. Especially against methicillin-resistant strains of *Staphylococcus aureus* (MRSA), a bacteria which causes staph infections and is drug-resistant.

## What does it feel like?

The most accurate answer to this question is... it depends on what your body needs. Every body is different, so everyone will react differently. The effect is personalized according to your internal situation. Most users report physical effects of reduced pain and stiffness in muscles and joints, as well as reduced inflammation throughout the body. Mentally, users typically describe feelings of calm, tranquility, serenity, relaxation, and sometimes improved focus and concentration. Many people use the consumable versions of CBD to help reduce anxiety and improve sleep, which is due to the dual factors of mental stillness and physical relaxation.

## Who can take it?

Studies have shown that both CBD and CBG extracted from hemp can be well tolerated by many people and animals. The most common results from taking CBD/CBG are mental calmness and clarity, reduced inflammation resulting from exercise or illness, helps support a healthy sleep cycle, and reduce daily stress. Anyone seeking balance or improvement in these areas can potentially benefit from products containing naturally occurring CBD & CBG. Both work on other mammals also. Older dogs or cats (or horses, goats, etc.) who experience joint stiffness and pain can get relief and improve the quality of their autumn years. Additionally, our four-legged family members who suffer from anxiety due to thunder, fireworks, prior abuse, house company, or the presence of other animals can benefit from its mellowing effects.

## Side Effects

CBD/CBG are generally well tolerated by most people and animals and is considered physiologically safe. Like any other supplement, it may cause adverse reactions in some people and/or may interact with certain medications. In limited research, contraindications with other pharmaceuticals appear to be minimal. As with any dietary supplement, if you are pregnant, breastfeeding, suffering from or suspected of having a health condition, or taking any medications, please consult your doctor before use. Because CBD mostly works on the peripheral and central nervous systems, possible side effects typically range from mental grogginess/drowsiness to whole body fatigue if taken in heavy doses with no reported biological toxicity.