

PREMIER HEMP EXTRACT

With Naturally Present Cannabinoids

100% all natural, scientifically examined, full spectrum hemp extract yielding concentrated phytocannabinoids. Our unique formula includes the clinically reviewed cannabidiol (CBD). Exciting new research demonstrates that the full spectrum of phytocannabinoids in hemp extract delivers advanced support indirectly interacting with CB1 and CB2 receptors of the endocannabinoid system (ECS).



Finally, A Hemp Extract You Can Trust!

A quality hemp extract may help:

- ✓ Healthy mood support and occasional stress support
- ✓ Support for occasional sleeplessness
- ✓ Alleviate minor aches and pain following exercise
- ✓ Maintain healthy neuromodulation
- ✓ Healthy inflammatory response following exercise/Immunomodulation
- ✓ Promote antioxidant properties



*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease.

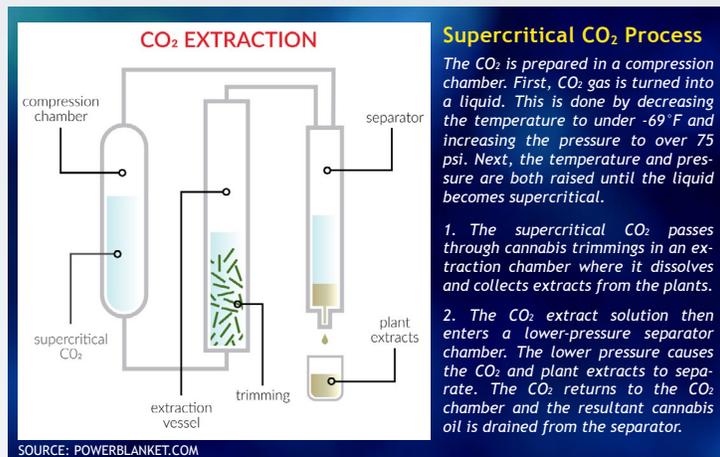
Pure Means Potent!

Hemp extract's nutrient content and phytochemical properties can vary dramatically depending on its growing and harvesting methods and production processes. We have found many sources of hemp to be poorly grown or contaminated with added synthetic cannabinoids. As a result, substandard hemp products may not offer the full spectrum of benefits that are typically cited in scientific literature. Therefore, how a plant is grown, then processed, is of critical importance.

Hemp extract has become famous for its spectacular health benefits, but it is PRL's meticulous quality processes that makes the key difference in ensuring the most pure and potent hemp extract we have available. **Premier Hemp Extract** is derived from a clean supercritical CO₂ extraction process followed by a winterization process. These processes create a hemp extract complete with the full spectrum of phytocannabinoids and terpenes delivered in its most potent form.

Why Use Supercritical CO₂ Extraction?

Supercritical CO₂ is a scientifically accepted procedure that relies on high pressure supercritical carbon dioxide and temperature control processes to gently move through the plant materials. This extracts the beneficial full spectrum of phytocannabinoids, terpenes, and other phenolic compounds believed to be critical to what researchers have established as the "Entourage Effect" (discussed on page 3) of the endocannabinoid system.



Ultra Potency Can Only Come From Ultra Purity

During this first step in the supercritical CO₂ process, various naturally occurring fats, waxes, and undesirable tagalongs from the plant material are purified to deliver the most potent final product. As a result, this process is able to concentrate the beneficial phytocannabinoids, terpenes, and other phytochemicals that help us achieve ultra purity and potency.

Guaranteed Potency

To further guarantee the purest and most potent product available, PRL's team of scientists perform an extensive panel of laboratory tests. This rigorous testing allows our team of experts to authenticate the botanical identity of the hemp extract and alert them to any raw materials that may have been adulterated. Next, our team uses a complete, in-depth phytoforensic screening to inspect the materials for undesirable additives, such as herbicides, pesticides or potential synthetic cannabinoids. Unfortunately, synthetic cannabinoids are often used in other hemp/CBD products on the market.

Our **PRL Quality Guarantee** ensures that **Premier Hemp Extract** meets FDA requirements for identity, purity, strength, and composition. Our team routinely tests for contaminants such as heavy metals (including arsenic, mercury, cadmium, lead), residual solvents in extracts and pathogenic microbiology. Therefore, we guarantee that our full spectrum hemp extract is not fumigated, irradiated or heat damaged.

The American Association of Poison Control Centers declares CBD as an "EMERGING HAZARD" due to the potential for mislabeling and contamination.

The Associated Press commissioned laboratory testing on 30 suspect CBD products obtained from around the country. Ten of the 30 products contained various types of synthetic cannabinoid (CBD) compounds, including drugs commonly known as K2 or "Spice". Some contained no CBD at all. These results are problematic since these products can be potentially dangerous as well as offer no medical benefits.

Similarly, at least 128 samples out of more than 350 tested by government labs revealed synthetic marijuana compounds in products marketed as CBD. Gummy bears and other edible CBD products accounted for 36 of the contaminated products. In one test, Mississippi authorities discovered fentanyl, a powerful opioid drug responsible for about 30,000 overdose deaths in 2018.



A Hemp Extract That Is Reliable and Trustworthy

When the endogenous endocannabinoid system was discovered in the early 1980s, pharmaceutical companies began to engineer synthetic cannabinoids to mimic the naturally occurring phytocannabinoids of hemp. Unfortunately, we now know that these synthetic compounds can be toxic and even deadly. Now, almost 40 years later, hundreds of synthetic cannabinoids have been falsely advertised as natural CBD and hemp products.

To avoid synthetic cannabinoid adulteration, extensive laboratory testing is absolutely critical. By partnering with leading industry laboratories, PRL rigorously screens all of our hemp/CBD raw materials for adulteration and contamination in order to safeguard our customers. This advanced testing screens for over 370 potentially dangerous synthetic cannabinoids and foreign substances (assay available). In addition, our team also conducts regular cGMP audits to ensure that our products meet all industry regulations and compliance.

Finally, PRL's scientific team utilizes Fourier-transform infrared spectroscopy (FTIR) to identify plant species and plant part. This method also allows our experts to detect adulteration of foreign matter and other undesirable additives.

Our comprehensive, multidirectional testing approach ensures that PRL delivers simply the best, premier quality hemp material available.

This is PRL's commitment to "quality without compromise," and assures our customers that **Premier Hemp Extract** is reliable and trustworthy.

These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease.

UNLEASH THE HEALTH POTENTIAL OF YOUR ENDOCANNABINOID SYSTEM

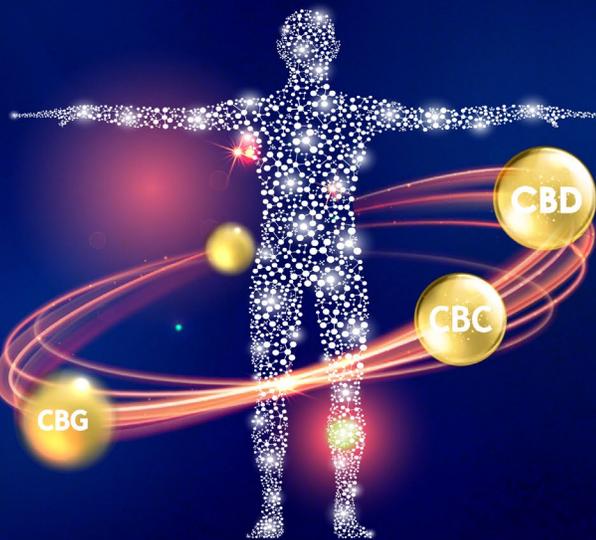
The endocannabinoid system (ECS) promotes biological stability by acting as the master conductor orchestrating the activities of the central nervous system and healthy responses to endogenous and environmental insults. The ECS is known to influence cellular and neuronal activity and support cerebrovascular health.

✓ May provide healthy mood support and occasional stress support

✓ May provide support for occasional sleeplessness

✓ May help alleviate minor aches and pain following exercise

✓ May help maintain healthy neuro-modulation; the effects of which have led to the study of phytocannabinoids for supporting healthy neuro-modulatory activity



✓ **Healthy inflammatory response following exercise/immunomodulation**

(potentially attributed to CBD's interaction at the CB1 and/or CB2 receptors, TRP channels and PPARα, one of several pathways; neuro-protection in β-amyloid attenuation model, negatively modulated GFAP transcription and expression; significantly reduce IL-1β and iNOS up-regulation; factors that contribute to stress.)*

✓ **Antioxidant properties**

(potentially attributed to CB2 receptors and/or cannabinoid receptor independent actions; CBD has been shown to have neuroprotective [antioxidant] benefits; ROS scavenger, NO synthase protein and (NF)-κB inhibition, reduced lipid peroxidation.)*

UNLOCKING THE GOLDEN DOOR OF THE ENDOCANNABINOID SYSTEM

The endocannabinoid system (ECS) has two primary cell cannabinoid receptors (CB1 and CB2) that are found within almost every major system in the body. The locations of CB1 receptors suggest involvement in a variety of bodily functions, and CB2 receptors are found mainly at the level of the immune system. These receptors send vital information to the body's cells, organs, and nervous system, which are critical to maintain homeostasis and essential for optimal health.

Phytocannabinoids and endocannabinoids function as retrograde messengers (lipophilic ligands) that provide feedback inhibition of both inhibitory and excitatory transmission in the brain. This process is mediated through the activation of presynaptic CB1 receptors. Manipulations of degradative enzymes, CB1 and CB2 receptors, and their endogenous ligands have shown promising health benefits.

CBD has an affinity for both receptor sites, CB1 and CB2, and may also exercise activity at non-cannabinoid receptors, enzymes, transporters, and cellular uptake proteins. Recent research has found that CBD can modulate CB1 receptors by binding to an allosteric site. CBD's interaction with CB2 receptors is more complex and may support a healthy inflammatory response following over-exertion due to exercise.

Full Spectrum Hemp Extract and the "Entourage Effect"

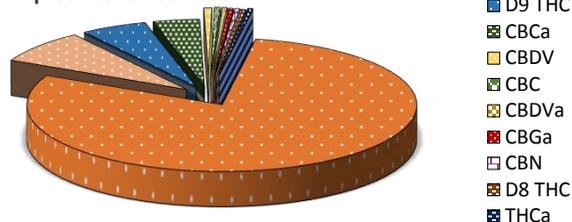
Phytocannabinoids are well-researched, naturally occurring phytochemicals that are extracted from the resin of tiny, hair-like glandular trichomes growing from the leaves of the hemp plant and flowers. There are over 100 phytocannabinoids that have been isolated from the hemp strain, *Cannabis sativa* L., and more than 90 others have been reported in scientific literature as well.

The combined interaction and cooperation of these phytocannabinoid compounds and naturally occurring terpenes result in synergistic health benefits referred to as the "Entourage Effect".

The full spectrum cannabinoid profile of **Premier Hemp Extract** includes a full array of phytocannabinoid and terpene compounds:

Cannabinoid Profile

Hemp Concentrate



A Closer Look At Hemp

Many people are familiar with the two most common types of phytocannabinoids contained in hemp: Tetrahydrocannabinol (THC) and CBD. There is an important difference between hemp and marijuana. Hemp naturally contains lower THC concentrations (<0.3% wt) and higher CBD concentrations. Whereas marijuana contains higher THC concentrations (>0.3% wt) and lower CBD concentrations. CBD and THC are structural isomers, meaning that they share the same chemical composition, but their atomic arrangement is different. Although THC has benefits, THC contains a cyclic ring that can act to overwhelm the endocannabinoid system by attaching to CB1 receptors throughout the brain and body, potentially inducing a psychoactive effect.

CBD is a non-psychoactive cannabinoid that contains a hydroxyl group which targets cannabinoid receptors known as the endocannabinoid system. This demonstrates remarkable potential for promoting overall health and wellness. CBD is rapidly circulated in the body due to its lipophilic nature. CBD has a half-life of 9 hours, after which it is excreted in urine as a free glucuronide form.

*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease.

The Secret of Terpenes

Terpenes - a non-cannabinoid constituent responsible for the odor and flavor of different strains of cannabis - are naturally present in hemp. They form the largest group of phytochemicals with more than 100 molecules comprising 140 different terpenoids and deliver a distinct aroma and an herb-like taste.

Recently, scientists have discovered that terpenes have the unique ability to interact with phytocannabinoids. This complete, full spectrum combination of phytocannabinoids and terpenes is responsible for a beneficial whole-body effect on the ECS. Therefore, it is important to deliver the full spectrum of this combination to yield the most favorable adaptogenic effect on the ECS.

An important terpene, limonene, is one of the most abundant terpenes found in **Premier Hemp Extract**. It may act synergistically with CBD and may possess sleep promoting, anti-excitatory, and calmative properties. Limonene may be beneficial for occasional stress relief and maintaining normal mood.* Limonene also has a delightful citrusy aroma.

Terpene Profile

Premier Hemp Extract



- Limonene
- Linalool
- Nerol
- α-Bisabolol
- trans-β-Caryophyllene
- β-Myrcene
- Guaiol
- Geranyl acetate
- 3-Carene
- Borneol
- Terpineol
- Geraniol
- Sabinene
- trans-Nerolidol
- cis-β-Ocimene
- α-Humulene
- α-Pinene
- Eucalyptol

Another important terpene, linalool, has similar effects as limonene. It is an aromatic floral terpene naturally present in cannabis and lavender oil. It may act as a synergist with CBD and may possess anti-excitatory and calmative properties. Linalool may also support normal healthy mood.*

As a superior hemp product, **Premier Hemp Extract** contains both terpenes, limonene and linalool.

At Last, A Full Spectrum Hemp Extract You Can Trust!

For decades, the amazing benefits of hemp have been revered as one of nature's profound little treasures. **Premier Hemp Extract** may support healthy mood and occasional stress, sleep, healthy neuromodulation, healthy inflammatory response following exercise, and alleviate minor aches and pains following exercise. Step into the 21st century with **Premier Hemp Extract** and deliver the unmatched results you have been waiting for.

Supplement Facts

Serving Size 2 droppers (1 mL)

Servings Per Container 30

	Amount Per Serving	%Daily Value
Calories	10	
Total Fat	1 g	1%*

Hemp CO₂ Extract 55 mg †
(aerial parts)
[Minimum naturally occurring
total phytocannabinoids, 30 mg]

*Percent Daily Values are based on a 2,000 calorie diet.

†Daily Value Not Established

Other Ingredients: Organic Extra Virgin Olive Oil, Organic Orange Oil, Organic Lavender Oil

Suggested Use: Take 2 full droppers daily or as directed by a health professional.

Tamper Seal: Use only if seal is intact. If pregnant or nursing, consult a health professional before taking. Store in a cool, dry place away from light. **Keep out of reach of children.**

DOES NOT CONTAIN: synthetic cannabinoids, gluten, or genetically modified organisms.

Safety, Side Effects, Drug Interactions:

CBD is rapidly distributed due to its lipophilic nature. Terminal half-life is approximately 9 hours and is preferentially excreted in urine as a free glucuronide form. The most common side effects are: tiredness, diarrhea, loss of appetite, and weight changes. Cannabinoids may interfere with drugs involving common hepatic (liver) drug-metabolizing enzymes that belong to the cytochrome P450 family, such as warfarin. Safety research is on-going.