



Bio-Active & Pure Phytocannabinoid Products

Protecting & Improving Your Health With Healing HEMP

Understanding HeavenSentHemp™

by: Dr. Brent W. Davis
chiropractic physician
clinical herbal formulator

The non-psychoactive, flowering Cannabis plant (industrial hemp) can be profoundly therapeutic for humans due to its complex chemical profile. From over 500 different natural chemicals found in hemp, three particular groups are especially important: **cannabinoids, terpenes, and polyphenols (including flavonoids)**. By empirical clinical testing, I have consistently observed that the degree to which those chemicals exert their healing power depends significantly on HOW industrial hemp is extracted.

The Great Communicator

Holistic health professionals skilled in the use of medicinal plants are finding that hemp is unique among all herbs in the way that it exerts such a wide range of regulatory influence on human physiology. I refer to healing hemp as “the great communicator.” It is as if the hemp plant is endowed with an intelligence to bring homeostasis to people with varying health challenges arising from different individual needs. How does it do it?

Hemp Has A Huge “Playbook”

Since most people have seen American football or soccer being played, a sporting analogy may be useful to explain hemp’s healing potential. Winning players and teams are those that have the greatest adaptive capacity to overcome obstacles and keep moving the ball toward the scoring objective.

In football, the obstacles are the defensive players on the opposing team. When a team’s offensive players are blocked by the configuration and/or athleticism of their opponent’s defenders, they must possess the capacity to collectively execute just the right combination of actions to get around the obstacle.

Of course, for our personal health in modern times, the obstacles are enormously more complex than we find in football competition:

- Toxic metal and neurotoxin poisoning of our enzyme systems which can block critical metabolic pathways;
- Pesticide residues that are likely substituting for essential amino acids and thereby promoting gene coding that manifests disease;
- Exposure to dangerous bioengineered organisms and natural infections that consume essential nutrients (most critically magnesium and zinc), and thereby disrupt our body’s biosynthesis of compounds necessary for health;
- Cellular and gene damage from electromagnetic interference (EMI), and more.



Unhealthy inflammation and immune system stress are involved in all those processes.

Hemp's enormous "playbook" consists of remarkable chemicals that interact with each other in powerfully therapeutic ways. It is described as the "ensemble effect" (or "entourage effect"), and can be a countermeasure to the complex health challenges mentioned above. Generally, even the most outstanding herbal supplements and nutrients cannot address these issues as effectively and quickly as healing hemp.

The Hemp "Players"

The chemical groups listed initially are the "players". They have so many play options it is virtually impossible to calculate.

FLAVONOIDS show in research that they are able to induce improvements in memory acquisition, consolidation, storage, and retrieval. Flavonoids specific to Cannabis, Cannflavin A & B, have been shown in cell cultures to inhibit highly inflammatory prostaglandin E2 which is a culprit in many adverse health scenarios.

POLYPHENOLS demonstrate anti-inflammatory and anti-oxidant characteristics by scavenging free radicals, restoring antioxidant enzyme activities, and by regulating cytokine-induced inflammation. *That combined action is a powerful tool for anti-aging and retro aging.*

CANNABINOIDS (that occur solely in the Cannabis plant) come in about 100 varieties, and possess many wonderful properties similar to flavonoids and polyphenols. But...they have distinctive actions that are truly remarkable. They are cellular messengers that allow them in a unique way to:

- **protect our brain, spinal cord, and peripheral nerves;**
- **stimulate bone growth and remodeling;**
- **help reduce spasticity due to anticonvulsant properties.**

In the Cannabis plant there are about 120 **TERPENES**. They have a dazzling array of biological properties that can promote human health. What is relevant to point out here is that they, like cannabinoids, are cellular messengers that can influence cell morphology and differentiation. They act as enzyme regulators. Terpenoid end products can also directly influence gene expression.

Distinctive Feature

Through clinical experimentation I have found that the desirable ingredients in healing hemp are most bioactive in the body when they are extracted with simple organic olive oil.

We at HeavenSentHemp developed a proprietary handcrafted process to accomplish this most effectively. It is much more labor-intensive than the commercial high volume method of liquid CO₂ extraction, but it is well worth the effort.

Energy Support

A great capability of hemp cannabinoids may be from their ability to substitute for our body's naturally produced endocannabinoids if those are deficient due to the challenges of stress. It has been proposed that hemp cannabinoids increase human "endocannabinoid tone."

Endocannabinoids are signaling molecules (ligands) that regulate critically important CB1 and CB2 receptors in the brain and throughout the body to maintain homeostasis. They "turn on" and "turn off" metabolic pathways and gene coding.

I have noticed that properly extracted high-quality strains of industrial hemp generally perform well beyond traditional adrenal supplements. Adrenal supplements are being used unnecessarily when in actuality the problem of low energy is from an imbalance in the sympathetic and parasympathetic nervous systems. Healing hemp regulates autonomic nervous system balance in a way that reduces sympathetic nervous system overdrive that so many are experiencing now.

In order to be used as a nutritional product with NO psychoactive effects, the cannabinoid, delta-9-THC, must be present in very small amounts in industrial hemp (less than 0.3% dry weight).

Even at that small percentage, it seems to "magically" interact with more abundant non-psychoactive cannabinoids such as cannabidiol to restore balance and resilience in our body.

Healing hemp can help us more easily express what we can be... a beautiful cellular and metabolic symphony.

References:

- National Academies of Sciences•Engineering•Medicine. **The Health Effects of Cannabis & Cannabinoids.** Washington D.C.: The National Academies Press, 2017.
- Pertwee, Roger. **Cannabinoids.** New York: Springer, 2005.
- Harrewijn, Paul, et al. **Natural Terpenoids As Messengers.** Dordrecht: Kluwer Academic Publishers, 2001.
- Reggio, Patricia H, ed. **The Cannabinoid Receptors.** New York: Humana Press, 2009.
- Hemingway, Richard W. ; Laks, Peter E. , ed. **Plant Polyphenols-Synthesis, Properties, Significance.** New York: Plenum Press, 1992