

## 1. What is Hemp?

Hemp is the non-psychoactive plant grown for industrial and farming uses. It has been cultivated for thousands of years. It is a very versatile plant and has been historically used for rope, paper, medicine and many other purposes. The first American flag was made of hemp. It was a major crop for George Washington and Thomas Jefferson. The Declaration of Independence and the Gutenberg Bible was printed on hemp paper.

In ancient India, a mixture of milk, spices and hemp was blended into a drink believed to aid digestion, and helped with fever and dysentery. Some believed it made the body more alert, calling it the “nectar of the gods.” Hemp oil was a natural part of the United States pharmacopeia and American doctors would regularly provide for its use.

Hemp is used in farming to clean soil and water which aids in regenerative agriculture. After the 1930s, taxes made it too expensive for farmers to grow hemp and thus they turned away from harvesting the crop. As hemp became more difficult to find, cannabinoids disappeared from the food chain and Americans became deficient in cannabinoids.

Most experts agree that the reason why cannabinoids appear to “cure” so many illnesses is because prior to prohibition they were part of the human food chain. Dairy cows ate feral hemp, which was rich in cannabinoids, CBD, and passed the CBD to humans through their milk. Pigs, chickens and other livestock were also fed hemp and the CBDs were in their meat and eggs. Beginning in 1937, the government eradicated all forms of feral and cultivated hemp, thus eliminating CBD from the human diet.

For decades, confusion over the species of plant led federal law to not differentiate hemp from marijuana, all of which were effectively made illegal in 1937 under the Marijuana Tax Act and formally made illegal in 1970 under the Controlled Substances Act (CSA) — the latter banned cannabis of any kind. Presently, the era of hemp prohibition is over. Hemp is now permanently removed from the CSA. It is forever deemed an agricultural commodity, no longer mistaken as a controlled substance, like marijuana.

## 2. How is hemp different from marijuana?

Both hemp and marijuana come from the cannabis plant but they are vastly different. They may appear similar but marijuana features broad leaves, dense buds and has a short appearance. Hemp features skinny leaves that are concentrated towards the top of the plant and grows taller and skinnier than marijuana. Hemp contains little to no THC concentration (0.3% or less), marijuana is rich in THC with concentrations between 15% to 40%. Hemp is grown for its industrial purposes, while marijuana is grown for recreational and medicinal purposes.

## 3. Does Z-Blends Hemp contain any THC?

NO. Z-Blends Hemp contains ZERO THC. The small amount of THC that is present in the oil extracted from the hemp plant is removed first. The refinement process removes any traces of THC and leaves behind the beneficial cannabinoids.

## 4. Will I get high?

NO. There is no THC, the psychoactive part of the hemp plant, in Z-Blends, so you cannot get “high.”

## 5. Will I fail a drug test?

If you are subject to any drug testing or screening, consult your employer or drug screening company before use as studies have shown that some hemp products may cause positive results. Most work-place drug screens target THC and do not detect the presence of CBD or other legal natural hemp-based products. Z-Blends’ hemp contains no THC.

## 6. What is Hemp, CBD and THC?

The cannabis plant family can be either the marijuana species where it contains high levels of THC and CBD or the hemp species with high levels of CBD and less than .3% THC. Cannabis plants contain over 100 different cannabinoids. The two most famous cannabinoids are THC and CBD. THC is the part of the plant that has the psychoactive effect. CBD does NOT have the psychoactive effects but does have many medicinal properties.

Traditional fiber hemp contains approximately 2-3% CBD. Industrial hemp contains 10-24% CBD. Z-Blends does not handle any marijuana

plants, only industrial hemp (which by law cannot contain more than 0.3% THC by dry weight). The minute amount of THC in industrial hemp is removed in the refinement process.

## 7. What is pure CBD Isolate?

CBD Isolate only contains CBD and does not contain any trace of THC. Isolate refers to the extraction method. In this method, CBD is “isolated” from unwanted compounds in the hemp plant and the result is pure CBD.

## 8. What is the difference in cannabinoids and cannabidiol?

Cannabidiol (CBD) is a type of cannabinoid. They both interact with receptors in your body and do not have psychoactive effects like THC. They are produced within the cannabis plant in different ways. CBD has beneficial effects and may be used in assisting to treat body ailments.

## 9. What is a phytocannabinoid?

A phytocannabinoid is a cannabinoid derived from a plant that maintains all of its cannabinoids and compounds found in the original hemp plant.



## 10. What is an endocannabinoid?

Endocannabinoids are cannabinoids produced by the human body.

## 11. What is the Endocannabinoid System?

Our Endocannabinoid System (ECS) is the main control system for the entire human body. It controls all of the other systems in the body. Its main job is to maintain homeostasis in the body. A deficiency in cannabinoids makes it difficult for the ECS to maintain homeostasis and as a result many things can get out of balance and create health challenges.

## 12. What is Z-Blends Hemp?

Z-Blends Hemp is a plant-based solution to some of the most common stressors for busy, modern lives. It contains pure CBD Isolate and uses the latest technology to break down the size of the CBD isolate for better and faster cell absorption.

## 13. Where does Z-Blends Hemp come from?

The industrial hemp Z-Blends uses comes from Colorado and Oklahoma.

## 14. Is the hemp organic?

The industrial hemp Z-Blends uses is grown to organic standards without the use of pesticides, synthetic fertilizers, genetically modified organisms, ionizing radiation or sewage sludge.

## 15. Is Z-Blends Hemp Non-GMO?

Yes. Because it is organically grown, it does not use any genetically modified organisms.

## 16. Is Z-Blends Hemp made in the USA?

Yes. Z-Blends Hemp comes from plants grown in Colorado and Oklahoma in the United States.

## 17. Is Z-Blends Hemp made in a GMP (Good Manufacturing Practice) facility?

Yes. GMP provides a system of processes, procedures and documentation to assure a product has the identity, strength, composition, quality and purity that appear on its label.

## 18. Is Z-Blends Hemp produced in a FDA Registered facility?

Yes.

## 19. Is Z-Blends Hemp produced in an NSF (National Sanitation Foundation) Certified facility?

Yes. NSF International registers manufacturers as meeting GMP requirements. It is the only American National Standard in the supplement industry that demonstrates a commitment to public safety.

## 20. How is Z-Blends Hemp made?

Z-Blends Hemp is derived from United States grown industrial hemp. It is extracted from the hemp plant using a CO<sub>2</sub> extraction method (the cleanest way to extract – many other processes use dangerous and toxic chemicals). This produces the oil. Next, unwanted compounds like THC are removed in the isolate process. Then the refinement process continues until all that remains is pure CBD. As this cools, it produces crystals, which are then pulverized to a powdered form. This is pure CBD Isolate. It is then repeatedly sonicated (an ultrasonic process that breaks the particle size down very small so it can be absorbed directly into the blood stream and directly into the cells.) Then, Z-Blends Hemp is “stabilized” to make sure the nanosized particles stay that way.

## 21. What is CBD Isolate?

CBD Isolate is what is left after the extraction and refinement process has removed unwanted compounds and THC. CBD Isolate is the purest form of CBD available and contains no trace of THC.

## 22. Why is Z-Blends Hemp different from other similar products?

Z-Blends Hemp uses a proprietary ultrasonic process to break down the particle size of the hemp oil to a size small enough to penetrate directly into the blood stream and deliver its benefits directly to the cell. This sonication process, called nanoemulsion technology, produces a milky liquid. This is evidence of the sonication process.

Z-Blends Hemp also uses a patented stabilization process to make sure the particle size remains in the 15-25 nM size to retain its effectiveness indefinitely. Other products that claim to be “nanofied” usually conjugate (go back to the larger size particles), reducing their bioavailability after 30-45 days. If the liquid is clear it is NOT nanofied.

## 23. What is nanoemulsion technology?

Nano technology breaks particle size down to a microscopic level so that the particle can be absorbed directly, quickly and easily into the cell.

## 24. What is N.E.A.T.?

N.E.A.T. is an acronym that stands for Nano Emulsion Advanced Technology. Z-Blends uses this advanced technology to reduce Z-Blends Hemp down to the molecular level to massively increase bioavailability.

## 25. How stable is the nanofication?

Z-Blends uses a patented ingredient to stabilize the nanofication of Z-Blends Hemp. Without this patented stabilization, the product would “reconjugate” and go back to its original, larger size and will significantly reduce its bioavailability and effectiveness. A nanofied product will look cloudy/milky. This is evidence of its nanofication. If a product is “clear” it is NOT nanofied. It may have been at one time but it has reconjugated and its bioavailability has been compromised.

## 26. What is bioavailability?

Bioavailability is the degree and rate at which an administered substance is absorbed by the body’s circulatory system.

## 27. How bioavailable is Z-Blends Hemp?

Typical bioavailability of most foods we eat will be in the 6% - 20% range. Sublingual (under the tongue) applications can increase bioavailability to 40%. Utilizing N.E.A.T., Z-Blends Hemp can achieve bioavailability of up to 85% or more.

## 28. Where can I go to find out more about CBD?

CBD has been all over the news for the past few years. Scientific research now shows the many health benefits of CBD. The results are real and CBD does produce strong medicinal and therapeutic effects for even the most common conditions. If you are interested in learning more, research “Endocannabinoid System Studies.”

## 29. Is Z-Blends Hemp pharmaceutical grade?

Yes. Generally, anything below 100 nM is considered pharmaceutical grade, 50 nM gets through the blood-brain barrier and anything 25 nM or less can pass through the cell wall safely while delivering nutrients where it’s

needed. Z-Blends hemp measures between 15-25 nM making it both pharmaceutical grade and the most efficient method of delivery.

### 30. Is Z-Blends Hemp safe?

Absolutely. Regarding CBD, in 2017 the World Health Organization (WHO) issued a report stating that the medical use of CBD is safe and poses no health risks. They went on to say that it is not addictive and is safe to take (unless it interacts with your medicine) and it does not induce intoxication.

A review of the scientific literature by Bergamaschi (2011) published in "Current Drug Safety" showed that CBD is safe and non-toxic, does not affect physiological parameters (heart rate, blood pressure and body temperature), does not affect gastrointestinal transit and does not alter psychomotor or psychological functions.

### 31. Does CBD cure anything?

While CBD benefits the body, it is not a cure for any diseases or sickness. As we age, the receptors in our endocannabinoid system deteriorates. If the body suffers from cannabinoid deficiency, CBD can help restore homeostasis, or help maintain balance within the body.

### 32. What is Z-Blends Daily?

Z-Blends Daily delivers premium results. Z-Blends Daily contains 750mg (25mg per serving) of isolated cannabinoids with 0% THC.

Take it daily to help combat stress, support optimal immune function, evoke a sense of calmness, and support in focus and attention span. It can also help maintain bone health, reduce occasional head and neck tension, and improve absentmindedness. Z-Blends Daily also assists in regulating mild mood changes and cramps associated with the menstrual cycle and helps to delay mild memory loss associated with aging.

### 33. What is Z-Blends Energy?

Z-Blends Energy contains the benefits of hemp oil PLUS ingredients to help give you the boost you need in your day. Energy contains 500mg (16mg per serving) of isolated cannabinoids with 0% THC. Take it when needed with your Z-Blends Daily to help boost your energy level and improve your mood.

### 34. Why does Z-Blends Energy have Niacin?

Niacin (also known as vitamin B3) helps maintain cholesterol and triglycerides (types of fat) at already normal levels in the blood. Niacin also helps boost brain and skin function.

### 35. Why does Z-Blends Energy have Vitamin B12?

Vitamin B12 (methylcobalamin) plays a role in helping your body produce red blood cells. It may support bone health, improve mood, boost your energy and supports healthy skin and nails.

### 36. What is Z-Blends Sleep?

Z-Blends Sleep is formulated to calm your body. It contains the benefits of hemp oil and melatonin. Z-Blends Sleep contains 500mg (16mg per serving) of isolated cannabinoids with 0% THC. Take it when needed with your Z-Blends Daily to help aid in sleep by calming the body and combat stress and frustration.

### 37. Why does Z-Blends Sleep contain Melatonin?

Melatonin is a very important hormone that is secreted naturally by the human body. Its primary function is helping to keep our circadian rhythms - or body clocks - in check. There are no major side effects that have been proven to be caused by taking melatonin; most people barely notice its effects, except when it's time to sleep and drifting off is much easier to do. Additionally, sleep is much more rejuvenating when taking melatonin and people frequently remark on how refreshed they feel upon waking.

### 38. Why does Z-Blends Sleep contain L-Tryptophan?

L-Tryptophan is an essential amino acid that your body changes into serotonin. Serotonin helps control your mood and sleep. Because of the increase of serotonin, it may help improve symptoms associated with premenstrual syndrome (PMS) and other mental ailments.

### 39. How much Z-Blends Daily should I take?

One dropper full each day. Everyone's body is different, and you will need to determine what dosage works best for you. If you do not notice the desired results, you may want to slowly increase your dosage until you achieve

the level of results desired. For maximum bioavailability, place the drops under your tongue for 60 seconds, then swallow.

### 40. How long does it take to work?

Many people feel results immediately or within the first 10 minutes. Some may not feel immediate results but will notice results over time. Give your body time to respond.

### 41. Is there a money back guarantee?

YES. There is a 30-day money back guarantee. Please see the Refund Policy for instructions on how to return your product.

### 42. What is the 2018 Farm Bill?

The 2018 Farm Bill allows hemp cultivation broadly by licensed growers. It explicitly allows the transfer of hemp-derived products across state lines for commercial or other purposes. It also puts no restrictions on the sale, transport, or possession of hemp-derived products, so long as those items are produced in a manner consistent with the law. Hemp will become a highly regulated crop in the United States for both personal and industrial production.

### 43. What states/counties allow the sale of CBD?

Alabama, Hawaii, Idaho, Louisiana, Nebraska and Washington have yet to pass legislation to allow the purchase of hemp-derived CBD products. Hemp-derived CBD may be legal at the state level, but certain counties can choose how to handle this. Z-Blends can sell to any legal operating county.

### 44. What shipping options do I have?

We currently offer the following carrier options:

- USPS
- Priority Mail – delivery in 5–7 business days.
- USPS Parcel – delivery in 7–10 business days.

*\*Please allow 24-48 hours to process your order before calculating your delivery time. Transit times do not include holidays and weekends.*

*Please note: We do not ship to P.O. Boxes.*



# Frequently Asked Questions

**45. What is the cost difference between the different shipping options I can choose from?**

USPS Parcel is the least expensive choice but it will take the longest amount of time for your order to arrive. USPS Priority Mail has faster delivery times but is more expensive.

**46. How is my shipping and handling cost calculated?**

Depending on the size of your order, shipping costs are calculated using several factors including the box dimension size, weight of your order, and the destination zone your order is being shipped to. In addition to the shipping charge, every order includes a handling charge in order to process your order at our warehouses.

**47. Where can I ship my order?**

You can ship your order in any county in the United States where hemp oil is legally operating except P.O Boxes.