ENDOCA

Unlocking the Secrets of Nature

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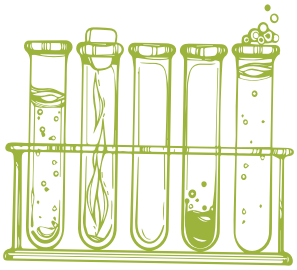
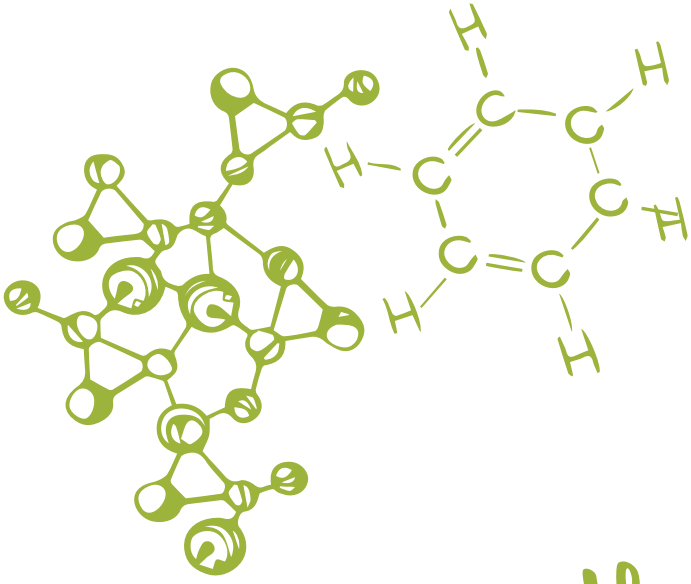




Unlocking the Secrets of Nature

Letter from “the fields”

“When I started working with cannabis in 2006 there were no other companies producing CBD. Today there are several companies manufacturing CBD but many are compromising on quality to save costs. In addition there are many online companies that sell CBD by re-branding cheap, low quality CBD extracts to increase their margins.This influx of newcomers attracted by the high profit margins and lack of regulation has made it difficult for consumers to find high quality CBD products.

The amount of mis-information and pseudo scientific jargon being thrown around has also angered the existing medical community and caused concern for the pharmaceutical industry who want the government to regulate and stifle this emerging market.

It’s a great opportunity and a great challenge for Endoca to continue innovating and pushing the standards higher, setting the bar for others to follow. As the leaders in cannabinoid production and research we feel it’s our duty to educate and work together with other companies and government regulatory bodies while informing the consumer about CBD oil and it’s revolutionary applications in medicine.”

Henry Vincenty

CEO Endoca

Our Vision

At Endoca we are leading the revolution in plant based medicine, unlocking the secrets of nature and setting the gold standard in the cannabis industry for natural, pharmaceutical-grade products made from hemp. (Cannabis Sativa L.)

Endoca has a long-standing family tradition of growing and cultivating the finest hemp in the world. Henry Vincenty, the founder of Endoca, discovered many ways hemp plants could be used as native, holistic, and natural health aids and using his training in organic chemistry and botany, he developed Endoca CBD oil extracts using the versatile and eco-friendly hemp plant that his family had grown for generations.

Today our primary focus is to research and develop innovative hemp extracts and to make them accessible worldwide. We are dedicated to producing the finest and purest quality CBD.

Our primary goal is to develop high quality hemp extracts with a broad profile of cannabinoids and other natural molecules found in hemp and to identify their distinct properties.

In the near future Endoca products will be high in CBD but with 0% THC. CBD products will be sold in stores around the world, just like typical vitamins and supplements.

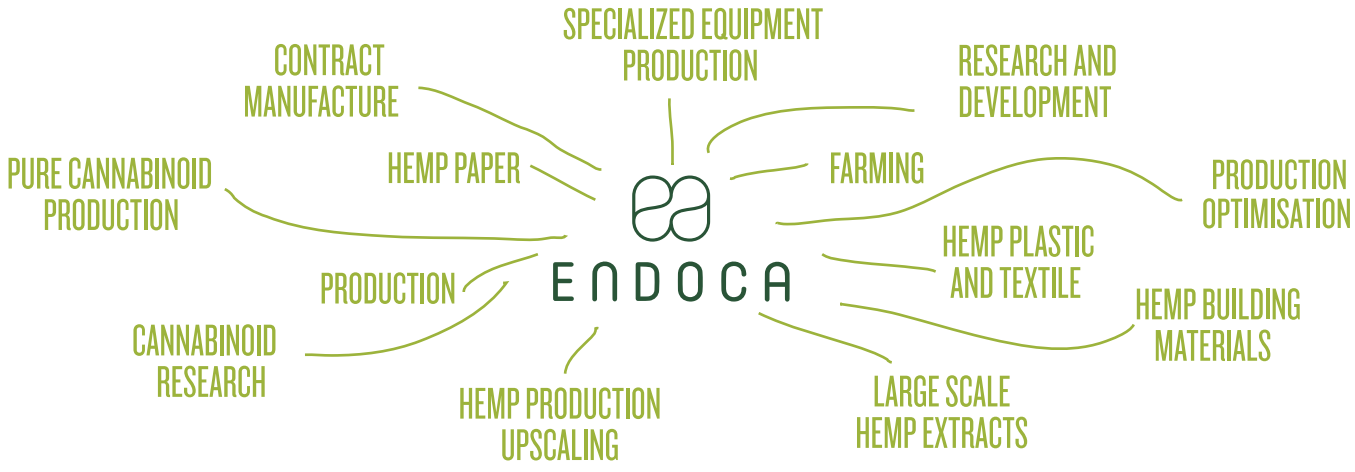
Our Fields

Endoca extracts CBD oils from hemp plants grown and cultivated organically without herbicides or pesticides.

Our hemp grows in Denmark, one of the top ten countries in Europe for organic share of the total cultivated area. The low lying and relatively flat land in Denmark added to the existing fertile soils, and partially favorable climate (winter frost + warm and sunny summer with rainfall over the average) makes Denmark ideal for hemp farming.

Denmark's many years of experience has created a unique management/quality system in the country, which is highly systematised and coordinated in it's efforts to handle soil and groundwater contamination. Regulations in Denmark have long since made soil quality an area of great consideration for hemp production.

Endoca begins with the best seeds nature can create for CBD production. Our non-GMO organically grown hemp plants are gently harvested and dried under the most optimal natural conditions. The hemp harvest at Endoca employs the most dedicated staff and advanced tools in the world, above and beyond those commonly available in the hemp industry and including custom made technologies especially developed for optimal CBD hemp farming.



CBD extraction

Endoca capacity:

2015, *100ha cannabis*

2016, 500ha cannabis

2017, 1000ha cannabis

Endoca's factory is capable of producing many different GMP certified cannabinoids, on industrial scale.

Generally, there is a lack of consistent quality control in the hemp industry. There are no standards or objective, professional, appropriately trained third parties regulating the cannabinoid industry, even though many believe there are. Legislators are relying on cannabis hobbyists or under-qualified scientists often with no background in the botanical science of the cannabis plant or in food safety – to determine standards for this massive new industry.

Most laboratories have limitations and difficulties conducting reliable quality testing on cannabis, limitations that can only be remedied by significant investment in both emerging high technology and experienced organic chemists.

Unfortunately, many products on the market contain residual pesticides, herbicides, mold, fungi, heavy metals, and even dangerous and overlooked mycotoxins. Yet few are willing to invest in cutting-edge analytics because the public is largely unaware of dangerous lapses in cannabis product quality rampant in the industry today.

Understanding this sad fact of life in the cannabis industry, we have invested enormous amounts of time and resources into our extraction methods, quality assurance and quality control. Constant improvement is our goal to ensure precision, accuracy, and repeatability in our extraction and product testing approaches.

Quality control is central to Endoca's quest to bring our customers the very best CBD and hemp products nature and science can offer. It's why we follow strict pharmaceutical industry standards throughout our entire production process.

Every batch of hemp oil created at Endoca is tested thoroughly to ensure that our organic products are free from pesticides, herbicides, molds, heavy metals, and other common contaminants. We utilize HPLC, an industry standard, as well as an advanced nuclear magnetic resonance (NMR) technology to monitor the oil composition at all points in the production process. We go this extra mile to provide our customers with peace of mind and confidence that they have purchased the finest quality hemp products in the world.

Our laboratory analysis is certified and standardised according to the following protocols:

ISO 14001: 2004 certified

ISO 9001: 2008 certified

HACCP certified

GMP certified

ENDOCA
HEMP OIL
SERVING DOSE
15 mg CBD (cannabidiol)
Shake before use.
CANNABIDIOL IS A NATURAL CONSTITUENT OF HEMP OIL
SECURITY SEAL
HEMP OIL
(20% CBD)
10g 2000mg CBD
1/2g 100mg CBD
HEMP OIL
(20% CBD)
(heated/ decarboxylated)
10 g
• (1/3 oz) •
CBD (Cannabidiol) is a natural constituent of hemp oil
HEMP OIL
1500 mg CBD
(heated/decarboxylated)
30 capsules
50 mg CBD per capsule
Vegan capsules

The products

Through a unique extraction process, Endoca reproduces the natural, balanced phytochemical profile of the original dry cannabis material. Endoca believes that the biochemical equilibrium within the herb must be maintained since this has proven to be effective throughout the ages to heal the body and promote good health.

To ensure the quality of our products we currently screen for over 300 pesticides, heavy metals, and mycotoxins. While we use equipment unavailable to most, every batch of product is verified by independent GMP certified labs that crosscheck our results.

We do all of this because our mission at Endoca is to lead the hemp and cannabis industry, becoming the gold standard for hemp analytics and quality assurance, so that more people will benefit from the therapeutic properties of cannabinoids. We do this knowing that when we raise the bar for quality, the benefits of our mission are shared with all current and future hemp and cannabis product users.

ENDOCA

CBD Oil Drops

SIMPLE AND EFFECTIVE

Our CBD Oil Drops are an easy way to administer and consume CBD. The absorption rates are much higher when hemp oil is taken in a liquid form. For this product CBD is diluted in organic hemp seed oil rich in Omega 3 and 6.

Available as:

(3%) 300mg CBD	**(3%) 300mg CBD+CBDa**	**(15%) 1500mg CBD**	**(15%) 1500mg CBD+CBDa**

ENDOCA
HEMP
OIL

CBD Paste

CONCENTRATE

CBD extract is the classic way of consuming CBD. Known for its great paste consistency, our CBD extract also has a unique flavor and a very high concentration of CBD and other Phytocannabinoids.

Available as:

(20%) 2000mg CBD

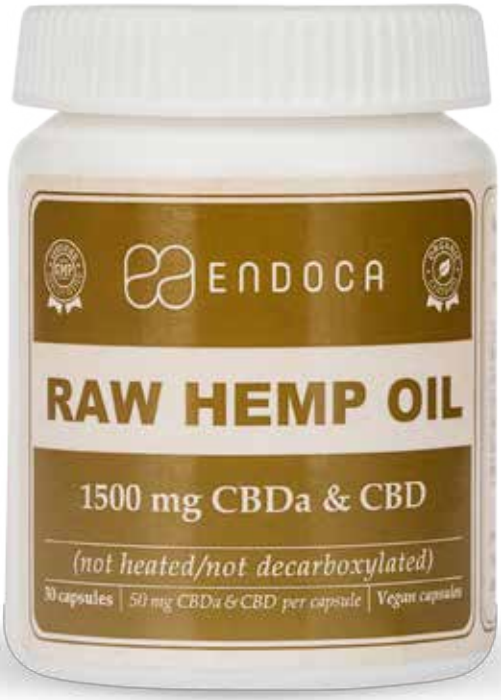
(20%) 2000mg CBD+CBDa

(30%) 3000mg CBD

(30%) 3000mg CBD+CBDa

ENDOCA
HEMP OIL
1500 mg CBD
30 capsules

CBD Capsules



BEST FOR PRECISE DOSING

Capsules are ideal for precise dosing of CBD. Vegan gel caps, gluten-free and completely kosher. They're extremely easy to swallow due to their smooth texture and they are also odorless and tasteless.

Available as:

300mg CBD

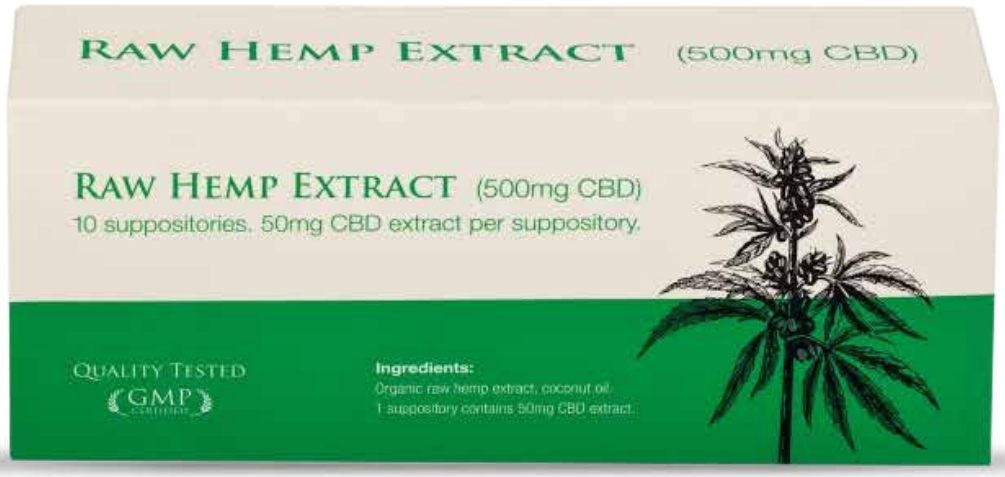
300mg CBD+CBDa

1500mg CBD

1500mg CBD+CBDa

RAW HEMP EXTRACT
10 suppositories. 50mg CBD extract per
QUALITY TESTED
GMP
CERTIFIED
Ingredients
RAW HEMP EXTRA

CBD Suppositories



For people suffering from nausea, vomiting or a gastrointestinal condition, oral consumption may not be suitable. In that case, our CBD suppositories are a great alternative administration method.

BEST ABSORPTION RATE

- 10 suppositories 50mg cbd per suppository

Ingredients: Organic Raw Cannabis Sativa Extract, Coconut oil.

98%
CBD
CANNABIS
CRYSTALS

Cannabis Crystals

Pure 98% CBD(Cannabidiol), 0%THC. The purest Cannabidiol extract ever created.
Extracted using Supercritical CO2, Solvent free and lab tested.
Mix it with your flower, dab it pure or add it to tinctures.

PUREST EXTRACT

- 1 jar: 500mg CBD

ingredients: Pure 98% CBD (Cannabidiol), 0%THC

ENDOCA
CBD

CBD Shish

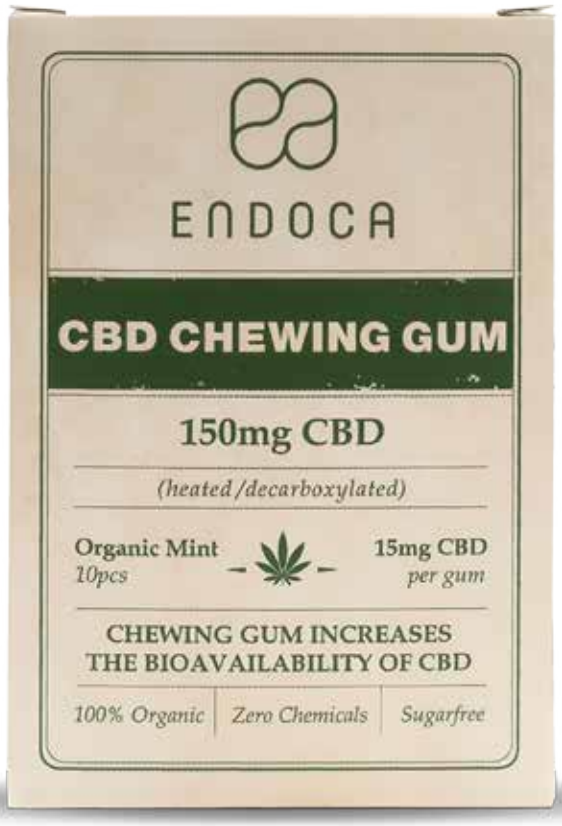
CBD Shish, ideal to mix with your herbs or dab it pure using a vaporizer.
CBD evaporates above 180°C (356°F)

NEW CBD TO VAPORIZE

- 1 jar: 2g of CBD Shish for a total of 140mg CBD.

ingredients: organic plant material,CBD (Cannabidiol)

CBD Chewing Gum



Chewing gum increases the bioavailability of CBD.
Old traditional recipe. Made with natural chicle gum from the rain forest and without the use ofsynthetic ingredients.

HIGH BIOAVAILABILITY

- One box contains 10 pieces of gum (150mg CBD)
- 15mg CBD per gum

ingredients: Chicle gum base, xylitol, CBD extract, peppermint, menthol, sunflower lecithin.

Wholesale

The Cannabis extracts we create can be divided into different categories depending on the process that it went through. Depending on what product you want to formulate different types of extracts have different advantages.

CO2 EXTRACTION *(First Extract)*

We extract cannabis using **CO2** and this results in an extract that's solid like a paste. The extract from the first extraction is a thick, golden-brown colored paste. The extraction can vary in % of **CBD** and **CBDa** from **3%(CBD) to 30%(CBD)**.

As standard we provide you with: **7%(CBD) or 7% Raw(CBD+CBDa)** . The reason that we make 7% as a standard is that the THC content is then is under 0.2% and it's possible to make a standard product in large quantities very easily. **If you have special needs for this type of product lets us know as there are possibilities to make the % of CBD or CBDa higher**.

The First extract can be divided in 2 groups according to the viscosity:

First Extraction (solid)

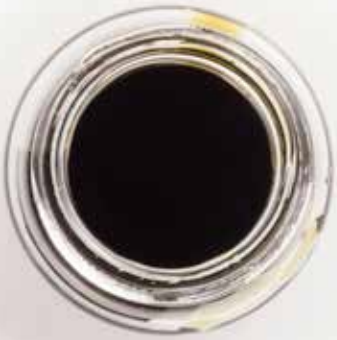
COLD FILTERED EXTRACT

The extract contains many waxes that makes the product like a paste. To remove the waxes we have two different approaches we call filtration:

1.Cold filtration & 2.Hot filtration

In Cold filtration we work with low temperatures and remove 1 type of waxes from the first extract, the result from this is more loose extract with a lower viscosity we call cold filtered cbd extract. Because the viscosity is lower the product is more liquid and makes it possible to mix it with other products easily and keep the end product more liquid. The cold filtered cbd extract can vary in % of **CBD and CBDa from 10% to 50%**. As standard we provide you with: **20%(CBD) or 20% Raw(CBD+CBDa)** . **If you have special needs for this type of product lets us know as there are possibilities to make the % of CBD or CBDa highe**r.

Cold Filtred Extract (liquid)



Cold Filtred Extract (extra liquid)

The Cold filtered extract can be divided in 2 groups according to the viscosity:

HOT FILTERED EXTRACT
"Golden CBD Oil"

We work with higher temperatures and remove another type of waxes from the cold filtered cbd extract, the result from this is a more loose extract with lower viscosity we call hot filtered cbd extract or **"the golden oil"**. The viscosity is lower than the first CBD extraction but higher than in the cold filtered cbd extract. The texture is more like coconut oil as it becomes liquid when the temperature is high and solid when temperature is below 20°C. The hot filtered cbd extract can vary in % of **CBD and CBDa from 10% to 50%, as standard we provide you with: 20%(CBD) or 20% Raw(CBD+CBDa) If you have special needs for this type of product lets us know as there are possibilities to make the % of CBD or CBDa higher**.

Hot Filtered Extract (solid)

99% CBD (Pure CBD)

By means of continuing the filtration process of our extracts **we produce our 99% pure CBD**, which can be used in various production applications. As an example we normally mix our extracts with organic hemp seed oil to loosen up the material. **For vape products we recommend that you use 99% CBD**.

Hot Filtered Extract (liquid)

99% Pure CBD

Hot Filtered Extract (extra liquid)

Do you really know what is in your Cannabis extract?

Unfortunately the majority of Cannabis extracts are produced without access to the proper laboratory equipment and many manufacturers use toxic solvents in the extraction process that leave residues in the product. Besides the leftover chemicals from the extraction process, many products on the market may contain toxins such as pesticides, heavy metals, herbicides, e-coli, mold fungi and even dangerous but overlooked mycotoxins.

You may get an upset stomach, find that your CBD oil is ineffective or even poison yourself with carcinogens over time when using uncertified CBD oil that has not been produced with conscientious attention to it's quality.

Can CBD be dangerous?

It takes the right plant

There are many ways to improve production and yields and among these is the use of chemical fertilizers and pesticides. We all know that these methods are bad for us, and we could even turn a blind eye if the hemp is used for fiber production, but when you are going to consume a plant as food or even more importantly, use it as a medicine, this is simply unacceptable.

These chemicals will be concentrated in oil extracts and when these are ingested, they could even be lethal.

Luckily, there are ethical companies such as Endoca, who have chosen to produce their hemp oil organically and use the cleanest and most advanced methods of extraction available today.

Choose only organic hemp

Do I chose Synthetic CBD or natural CBD?

How much CBD is in the bottle? This appears to be a simple question, but in the absence of regulation, supplement manufacturers can print any fiction they want on the product label.

Fake CBD percentages %

How do we know we can trust a CBD manufacturer?

These are the most important points to look out for:

- Batches are tested internally, but also by an impartial third party and these results are made public.
- Good Manufacturing Practices (GMP) certification.
- International Organization for Standardization (ISO) certification.
- Accessible, contactable customer care service.

GMP certification

Good manufacturing practices (GMP) are the practices required in order to conform to the guidelines recommended by agencies that control authorization and licensing for manufacture and sale of food, drug products, and active pharmaceutical products. These guidelines provide minimum requirements that a pharmaceutical or a food product manufacturer must meet to assure that the products are of high quality and do not pose any risk to the consumer or public. Ask the CBD oil producer for the GMP certificate number if they have one!

tested by 3rd party labs

Fake CBD

Synthetic production of CBD is easy and profitable. There's just one problem: it doesn't work! It may seem chemically similar, but it won't be helpful as a treatment and could even be dangerous. Studies show that whole plant CBD is the only effective form of CBD.

Endoca is GMP certified

How can I choose a good CBD oil?

- The producer is GMP certified
- online batch test results
- Transparent information and 3rd party lab tests are available
- The producer works from seed to shelf maintaining 100% control over the entire production process.
- Organic production methods have been employed.
- The brand has a trusted status among other consumers.

Choose only a trusted CBD source

Hemp vs. Cannabis

What's The Difference

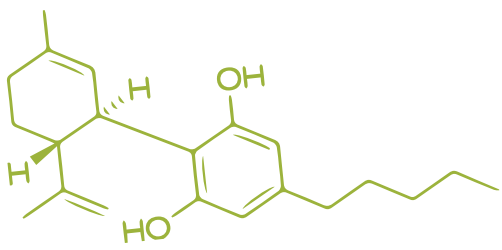
Both are actually Cannabis plants, however Hemp or industrial Hemp is a commonly used term for cannabis plant strains that contain very low levels of Tetrahydrocannabinol (THC) and are used for it's fiber and seeds. Cannabis use was identified in ancient villages from over 10.000 years ago in Asia placing it as one of the first humanly cultivated plants

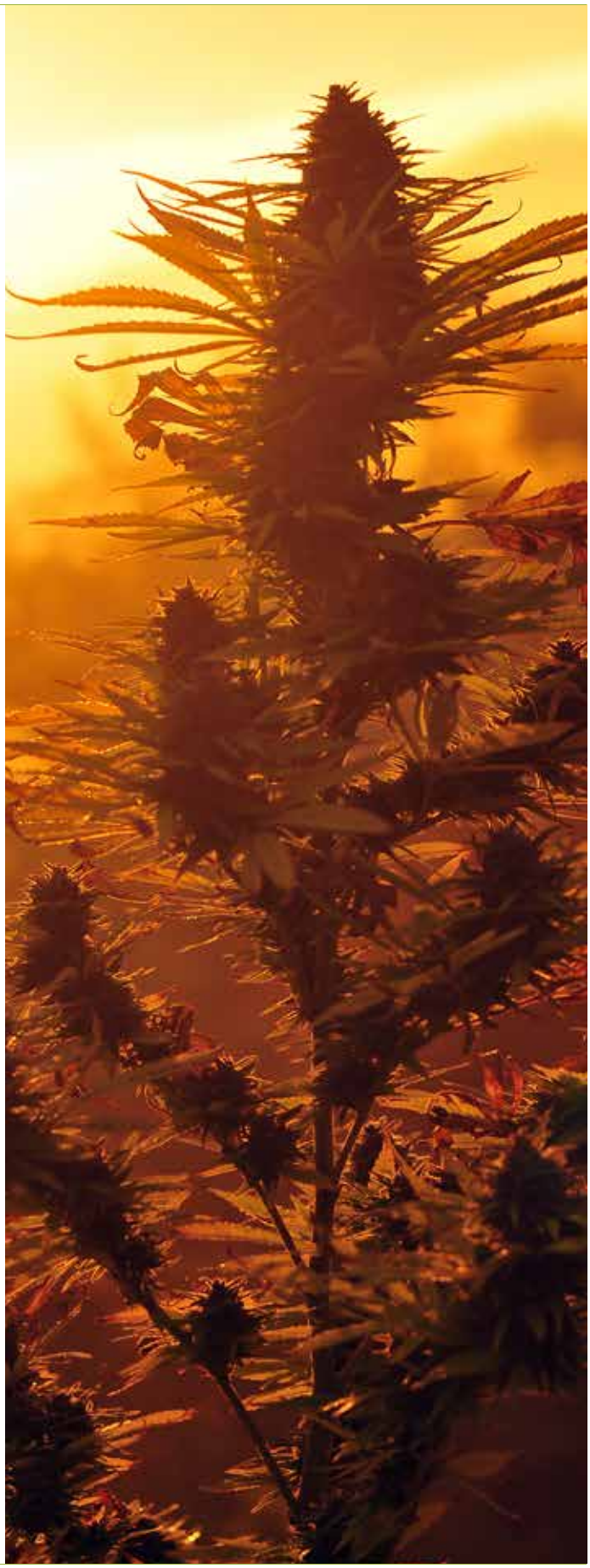
What molecules does cannabis contain?

There are over 480 natural components found within the Cannabis plant. The molecules that recently got most attention are cannabinoids At least 85 different cannabinoids have been isolated from the Cannabis plant. However there are other molecules: Terpenes, Chlorophyll, Alkanes, Nitrogenous compounds, Amino acids, Sugars, Aldehydes, Alcohols, Ketones, Flavonoids, Glycosides, Vitamins, Pigments.

Why are cannabinoids so interesting?

Our bodies create cannabinoid like substances and we call them endogenous cannabinoids or **endoca**nnabinoids. Plants make similar cannabinoids and they are called phytocannabinoids.





About CBD & CBDa

CBD

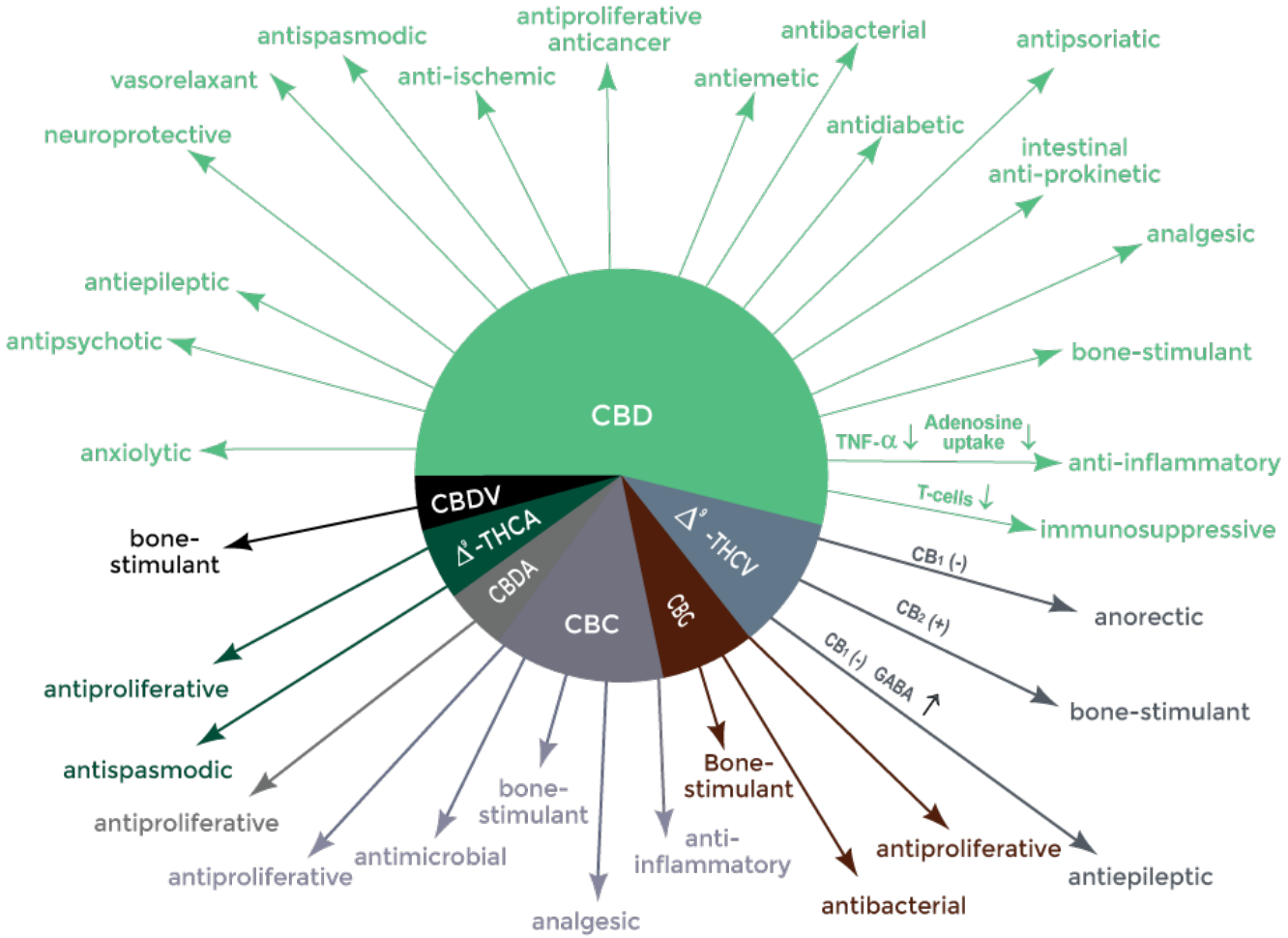
The cannabis plant contains many different cannabinoids,We have seen over 80 different types and it seems there are many more. Most people have heard of a cannabinoid called THC, which is the ingredient in cannabis that gets users high. Unlike THC, CBD is a non¬psychoactive cannabinoid and does not cause a high. CBD has antipsychotic effects which means CBD works completely the opposite way of THC. Numerous studies suggest that CBD also acts to reduce the intoxicating effects of THC, such as memory impairment and paranoia.

CBDa

In nature CBD and THC are found mostly in their acid form: CBD as CBDa and THC as THCA.
The plants actually contain very little CBD or THC.

What's most remarkable is that if you eat the plant raw, as nature intended, you will not get the the psychoactive side effect as THCa is non-psychoactive. The reason is that you need to heat THCa in order to turn it in to THC. Historically, dietary use of the entire raw cannabis plant brings us back to the beginning of the human race.

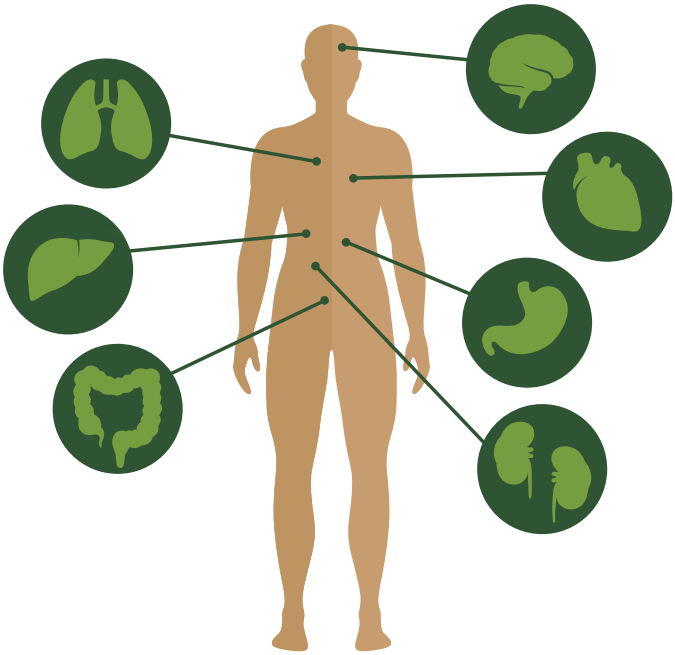
Oils containing different forms of CBD have been found to work much better the CBD alone.



CBD - Therapeutic Areas

The endocannabinoid system (ECS) is a lipid-derived signaling system discovered within the past decade. Cannabinoids, which are homeostatic regulators, circulate throughout human and animal systems continuously, affecting all physiological processes.

The endocannabinoid system is comprised of CB1 and CB2 receptors which bind directly or indirectly to cannabinoids and phytocannabinoids, CB1 receptors are excitatory and are located n the central nervous system, lungs, liver, and kidney. CB2 receptors regulate immunological responses and are located in the immune and circulatory systems.



Endogenous compounds, such as anandamide and arachidonylglerol (2-AG), are made by mammals from lipids and bind directly to the CB1 and CB2 receptors, serving as neurotransmitters for cannabinoids. Cannabidiol (CBD oil), a non-psychotropic cannabinoid naturally occurring in human and animal species, it's also a phytocannabiniod, derived from the industrial hemp plant . While CBD does not bind directly with receptors, it does affect stress genes, such as Soat2 and Cyp27a1, which control sterol (i.e., cholesterol) metabolism. CBD increases the amount of anandamide and other vital lipids, thereby indirectly increasing the availability of circulating cannabinoids to bind with CB1 and CB2

receptors. Research has shown that cannabidiol in the form of CBD oil has therapeutic benefits

individually and adjunctively with other interventions, Cannabidiol (CBD) made from legal, industrial hemp contains less than 0,3% THC, rendering it

non-psychoactive. CBD oil has antiemetic, antioxylitic, antitumoral, and immunologically inhibitory properties.

Three categories differentiate the types of clinical endocannabinoid deficiency (CECD) which are associated with different disease processes and disorders: genetic, acquired, and idiopathic autoimmune. Many disorders have a combination of CECD origins, and supplementation with cannabidiol (CBD) requires ongoing assessment to facilitate optimal benefit for the individual.The pandemic of obesity is directly related to the dysregulation of the endocannabinoid system among humans throughout the world. Metabolic syndrome, obesity, insulin resistence and the associated diseases have escalated over the past two decades.

Visceral fat, which is an indicator of inflammatory processes affecting the gastrointestinal system, and endocannabinoid receptor dysfunction, and associated endocannabinoid depleteion, accumulates as substances foreign to the human gastrointestinal system, are repetitively ingested, for example, processed foods containing synthetic sugars increase abdominal visceral fat as the body produces a rapid

inflammatory response via the immune system, which is governed by the endocannabinoid

system. In the presence of adequate endocannabinoids, the immune system response is

modified, and excessive inflammation does not occur.

However, because synthetic food substances block endocannabinoid production and therefore alter CB1 and CB2 responses, the immune response is excessive inflammation around the intestinal tract and intrabdominal cavity becomes expansive.

This phenomenon, repeated on a daily basis, leads to metabolic syndrome and obesity, directly associated with insulin resistence, leading to diabetes mellitus. In light of the recent research on the role of the endocannabinoid system as the core center for human and mammalian system regulation, education becomes imperative to prevent and reverse behaviors which contribute to metabolic dysregulation.

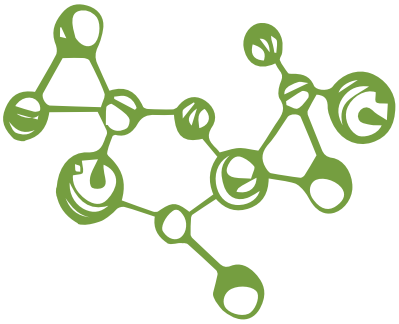
Exercise is essential for the function of physiological systems in the human body. The effects are clearly documented throughout countless studies. The effects of exercise, however, even in the presence of reduced caloric intake, do not correlate with weight loss or, most importantly, the loss of visceral fat.

The endocannabinoid system requires the presence of adequate cannabinoids for metabolic balance and the reduction of visceral fat, associated with gastrointestinal inflammation. Because dietary intake of phytocannabinoids, which effectively balance the endocannabinoid system, are severely inadequate in the diets of developed countries throughout the world, cannabidiol (CBD oil), as a food, is suggested, in combination with the elimination of synthetic food derivatives, as an adjunctive option to manage obesity and associated disorders.

In a recent study, Cannabinoid Research Group (Reillo, 2015) established the correlation of the increased measurement of salivary nitric oxide after use of cannabidiol.

Nitric oxide levels in the human body are associated with multiple cardiovascular, immunological, metabolic, and neurological functions, with depletion directly associated with endocannabinoid dysfunction.

Optimal levels are correlated with adequate phytocannabinoid intake and endocannabinoid system health.



The validation in human subjects of measuring the effect of cannabidiol as an expression of nitric oxide is significant as an assessment tool in the management of an individual by the health care practitioner and renders validation of the quality of the CBD preparation recommended for use under the guidance of the health care practitioner.

CBD interacts and modulates with the human endocannabinoid system, their endogenous activators (ligands), enzymes, and transporters. In addition, cannabinoids interact with other important neurotransmitter systems, along with the TRP Channels.

CBD proves to be effective in diverse therapeutic areas. Some of the major pharmacological effects include :

- ***Anti inflammatory***
- ***Increases drug uptake***
- ***Biochemical pathways associated with diabetes***
- ***Anti-psychotic***
- ***Reduce anxiety and depression***
- ***Regulate obesity***
- ***Anti epileptic***
- ***Anti neoplastic agent***

Mission

Endoca vision - CBD hemp oil opens to a new consciousness.

Here at Endoca, our mission is to prove that humanity can survive without having to poison ourselves and the world around us. The plants that we extract out CBD hemp oils from are grown and cultivated organically without herbicides or pesticides. Our extraction methods are also clean and do not require the use of chemicals or solvents. This allows us to attain an exceptionally high level of purity in our hemp oils. Your health and the health of the environment are our first priorities.

We are currently developing our own packaging using hemp fibers to reduce pollution caused by paper and plastic production processes. The inks and dyes we use will also be completely natural products.

Our next big step will be the use of hemp seed oil to run our tractors and the use of solar energy as a sustainable source of electricity for our facility. We want to prove that 100% sustainable practices work, and we want you to join us in our quest to make the world a healthy place.

The Endoca Village

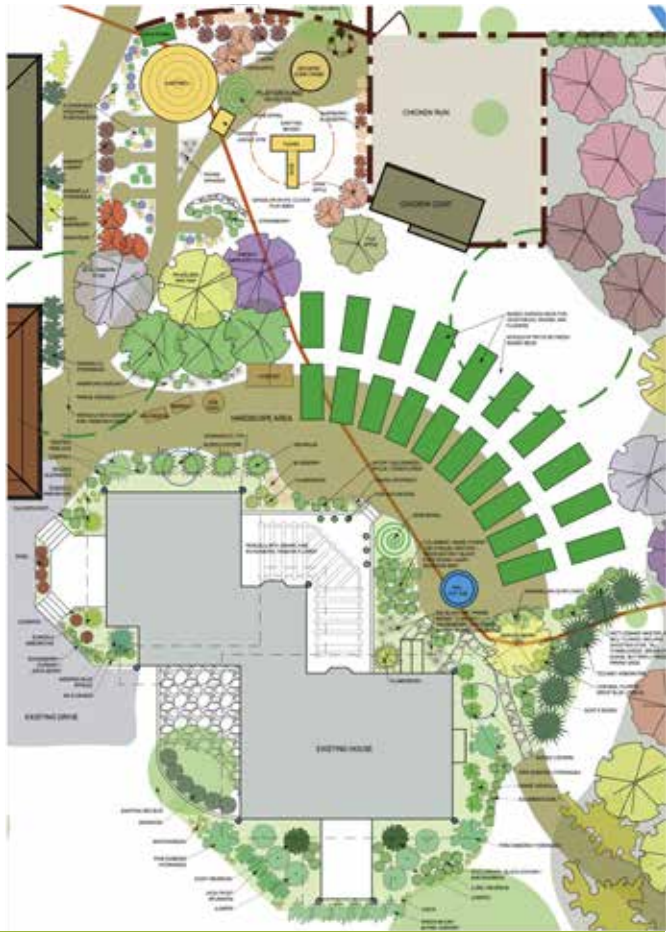
Our vision includes the establishment of a village surrounding our manufacturing site that's 100% sustainable and independent, a place where organic food is grown and everything we need is produced in the village. We'll go further than just being 'organic' – real permaculture principles will be implemented to ensure maximum sustainability.

Raw Food Cannabis Hospital

In addition to being a home, we want to build a Raw food hospital in our village, to be a place that people visit and stay to learn more about and adopt healthier lifestyle practices so that they can achieve healing equilibrium and attain maximum wellness.

The reason we want to create a food hospital is that we want to show people that you can often simply eat your way to health. Eating organic raw food has many health benefits. We also seek to use the profits generated from the sales of our products to help those in need, especially children.

We hope to build free accommodation and shelters for the needy using hemp technologies, and even provide them with work. We also hope to found an orphanage where children will receive education and healthcare. We have poured all profits from our sales into this vision, and we have achieved excellent progress towards its realization.



raw food

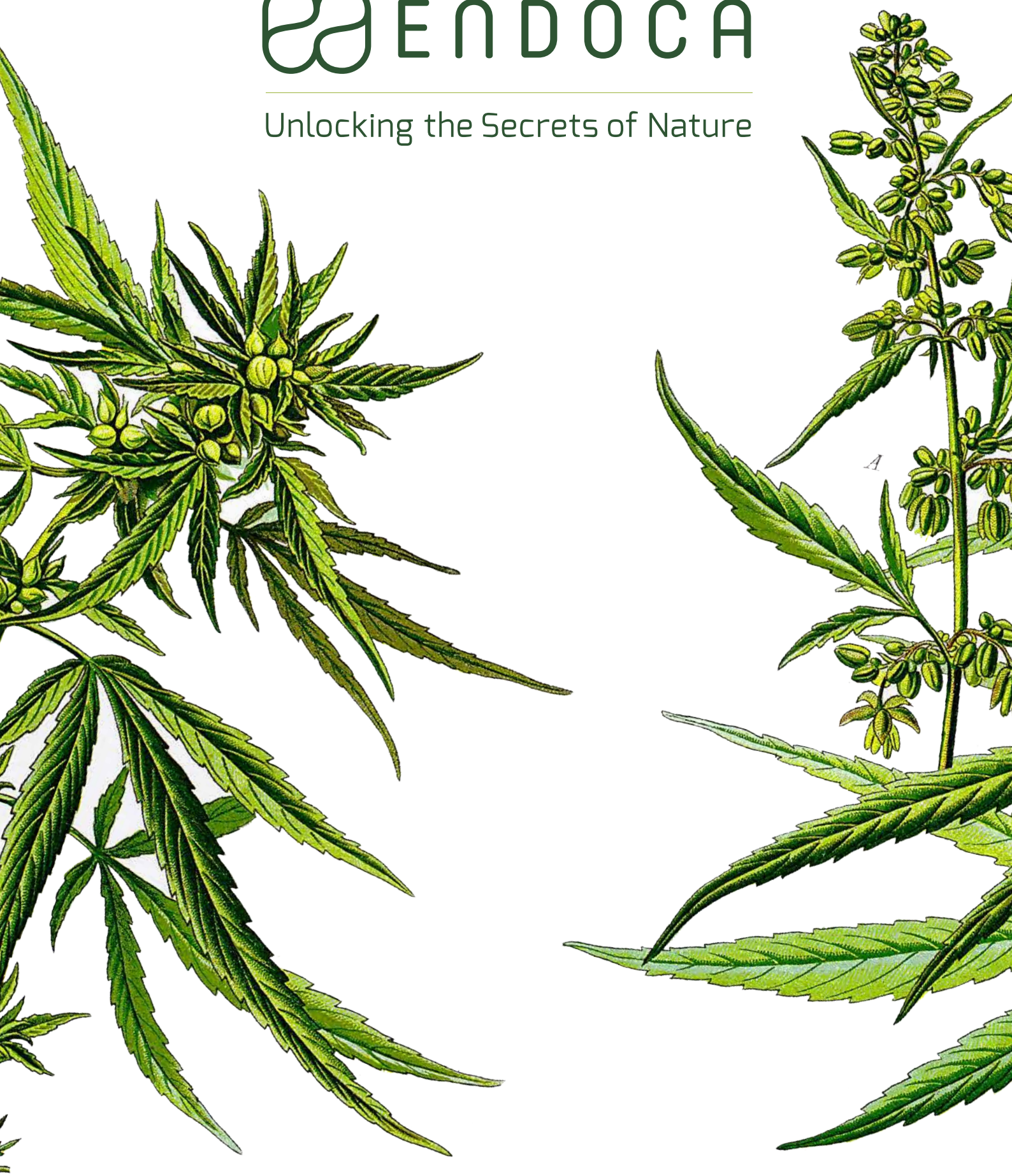
CANNABIS ✚ HOSPITAL

ENDOCA

is not just a product...
it's a lifestyle!

ENDOCA

Unlocking the Secrets of Nature



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