

## BIO CBD-ÖL

Hemp / cannabis oil without THC



**Hemp is one of the world's oldest crop plants, best known for being the source of narcotic substances such as hashish or marijuana. Our Organic CBD Oil provides all of the valuable nutrients of the cannabis plant without the negative effects of the dangerous substance, THC. CBD oil has no hallucinogenic or addictive properties.**

There are over 480 known substances present in the cannabis plant, the most abundant of which is THC (tetrahydro-cannabinol). Around 80 of these substances are unique to the cannabis plant and are therefore defined as cannabinoids. One of these substances is CBD (cannabidiol).

The effect of CBD on the body is startling and this is due to the way in which its effect occurs in the endocannabinoid system which is entirely different to that of other vitamins and minerals.

The endocannabinoid system is a part of the nervous system of all mammals, fish and molluscs. The human nervous system weighs around 2kg and comprises several hundreds of billions of nerve cells which form the central drive for all bodily functions. The nervous system receives impulses and information using so-called receptors, which act as a sort of communication network for the nervous system.

The active ingredients in CBD oil correspond to and activate two main receptors in our nervous system, i.e. the so

-called CB1 and CB2 receptors. Thanks to this activation, the body is better equipped to send signals thereby improving and streamlining its processes.

As the self regulating ability of the body is enhanced, the effect of CBD oil can vary greatly. This means that CBD oil can promote alertness and sleep quality, depending on requirements. It therefore has an adaptogenic (= adaptive, modulating) effect.

Among other things, the CB1 receptor is involved in the connections that exist across our nervous systems, as well as our motor processes, appetite regulation, anxiety management, mental capabilities and pain response.

The CB2 receptor is mainly located in the cells of the immune system and is fundamentally involved in its regulation.

Even our own bodies produce cannabinoids. This means that CBD from the cannabis plant is not a new or unknown substance for the body, but rather compensates for a deficit of this messenger substance.

CBD oil is no panacea and should only be used as part of a holistic course of therapy. It can contribute to the body's own ability to regulate itself and is an accompanying measure to be used alongside any medication potentially prescribed by a doctor.

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There are (to date) no scientific findings which demonstrate that CBD oil (or any other cannabis oil) is able to cure illnesses. However, the oil is capable of alleviating symptoms which are associated with illnesses or which occur as side effects of certain medications.

There are numerous studies on the effects of CBD oil. Many doctors are enthusiastic about the therapeutic effects of the oil, but a number of studies must still be carried out in order to confirm the effects of the oil using official, scientific findings. Many users of CBD oil are, however, already convinced of the medical effect of the product. The oil has already helped them ease a number of symptoms they have experienced.

CBD oil has a muscle-relaxant, anti-inflammatory and neuroprotective effect. The substance can be used to treat a variety of symptoms, including: Alleviation of chronic pain, stress reduction, improvement of neurological functions, easing of symptoms which occur due to fibromyalgia, rheumatic symptoms, depression, epilepsy, Parkinson's, cancer and migraines.

To date there are no known side effects associated with CBD oil.

### **Manufacture**

Our hemp plants are grown with care and harvested and processed by hand. During the careful process of CO<sub>2</sub> extraction, the nutrients are drawn out and then combined

with hemp seed oil. The CBD/CBDA it contains is entirely natural and not enhanced through external additives (isolate). The result is an oil which contains all of the constituents of the hemp plant (raw extract).

The CBD oil is sourced, as previously mentioned, from the hemp plant by way of CO<sub>2</sub> extraction. This process is used to obtain not only CBD, but its predecessor CBDA. Our CBD oil has an optimal balance of CBD (cannabidiol) and CBDA (cannabidiolic acid). This ensures improved bio-availability of the active ingredients.

The proportion of THC in the final product is always below the legal limit of 0.2 %.

Cannabidiolic acid (in short CBDA) is the main cannabinoid in industrial hemp. Under the influence of temperature and light, CBDA is transformed into cannabidiol (CBD). This transformation is by no means complete in the final extracts, dependent on the conditions, relatively high concentration of CBDA are found in the final product along with CBD. The CBDA content of the product is higher if the plant is harvested early and if all the manufacturing processes are carried out with minimal exposure to the influence of light and temperature.

CBDA does have similar properties to CBD but different effects. As opposed to CBD, CBDA inhibits cyclooxygenase-2 (COX-2), i.e. an enzyme responsible for the formation of pro-inflammatory metabolites such as prosta-

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glandins. Also involved in an interaction with the serotonin receptor 5-HT1A, CBDA is at least 10 x more effective in treating nausea, vomiting and anxious episodes. It is ultimately believed that CBDA is the actual antimicrobial agent in cannabinoid combinations. CBDA is also effective against tumour cells, even though it has proven less effective than CBD in vitro.

Most notably, CBDA increases the bio-availability of CBD around twofold. In other words, an extract containing a 1:1 ratio of CBDA to CBD not only has the total effect of a "pure" CBD extract but also the additional benefits of CBDA. Animal testing suggests that CBDA has greater bio-availability, however there is a lack of data for human subjects.

Our CBD oil contains all valuable constituents with health benefits, such as terpenes and flavonoids. CBD is more effective in synergy with the other constituents than in the form of a pure substance.

### Recommended intake (dosage)

2 x 5 droplets daily, max. 30 droplets per day

Administer the oil orally by placing a drop of cannabis oil under the tongue. Cannabis oil has a strongly bitter taste. When you can no longer cope with the taste, rinse away the cannabis oil with water or another non-alcoholic drink. If you wish to enjoy the maximum benefit of the oil, avoid consuming all fluids for a period of 15 minutes fol-

lowing consumption.

**Note:** Should you wish to benefit from the relaxing effect of CBD oil to improve the quality of your sleep, drops are recommended a few hours before your bedtime.

### Instructions

The product must not be used during pregnancy or periods of breastfeeding. Store out of the reach of children. Please note that interactions may occur between CBD oil and certain psychotherapeutic drugs! Please consult your doctor or pharmacist for detailed information on the product.

Nutrition supplements should not be used as a replacement for a balanced and varied diet in addition to a healthy lifestyle.

Information for diabetics: Suitable for diabetics. The product contains 0 carbohydrates.

### Product information

10ml bottle (6% concentration CBD/CBDA)

Ingredients: Hemp seed oil (65 %), hemp extract (35 %)  
Contains the entire spectrum of substances drawn from the hemp plant.

Content per 10ml:

6 % CBD/CBDA: 576mg

THC < 0.2 %



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## Certifications

Seal of quality by ARGE-CANNA: <https://arge-canna.at/quetesiegel/provital/>

Our company (Provital GmbH) is certified organic by BCS Öko Garantie GmbH (DE-ÖKO-001) and approved by TÜV SÜD Management Service GmbH according to ISO-9001.