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TOGETHER AHEAD

Micelle Solubilisate



The product - simply explained.

English version



Swiss quality | 100% natural | Soluble in water  
Vegan | Almost 100% bioavailable for the  
human organism

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Age restriction: >18 years

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## PRODUCTSHEET Full Spectrum Micelle Solubilisate

Micelle solubilisates are 20 times more efficient than a conventional product

The Micelle process imitates the natural encapsulation process of fat particles. In traditional medicine, the so-called micellisation has been used for decades. It allows, for example, poorly soluble medicines to be made more available to the organism. However, these micellisation methods often use so-called polyethylene glycols (PEG) or polysorbates.

These substances are controversial. They are made of petroleum and are even suspected of being carcinogenic. The patented Micelle process is completely different. It is the first and only micellisation process that uses neither synthetic nor synthetically modified ingredients. All ingredients are 100 percent natural. The result is a completely natural product with almost one hundred percent bioavailability.

### Revolution with Hightech

As many producers of health promoting products know, their product only can be digested poorly. This problem has now been solved. The patented micelle method sets new standards. It allows to offer new products that are far more effective than the conventional ones. At the same time these products are 100% natural, are well tolerated and are also financially worthwhile thanks to their efficiency.

### Almost 100% bioavailability

In order for the body to absorb the fat-soluble particles, they must first be encapsulated in the stomach. This is the only way they can pass through the mucous membranes and finally enter the circulation. This natural process takes time and energy. The result is that only 5-10% of the active ingredient reaches the bloodstream. The remaining 90-95% is lost. They are neutralized by stomach acid and excreted by the liver. The result: Of a total of 20 mg of active ingredient taken, only 1-2 mg have the desired effect. This balance does not change even if a substance such as CBD oil is kept in the mouth for some time, as the mucous membranes still have to be passed. That way we lose 95% of the active ingredients. In addition, it is almost impossible to plan or predict an exact dose. Thanks to the patented Micelle method, these disadvantages are now finally a thing of the past.

Almost 100% bioavailability

100% natural

Patented micelle processes

Winner of Prestigious 2018 CPhl  
Pharma Awards

water-soluble

resistant against stomach acid and  
enterobacteria

Drastically increased effectiveness

Highest purity

Swiss quality

THC < 0.05% or THC free



### One technology, unlimited possibilities.

The future of this patented technology lies not only in the medical use of CBD, but also enables the micellization of a wide variety of fat-soluble substances in a variety of beverages and foods, cosmetics and dietary supplements.

**In principle, micellization is possible with any fat-soluble substance.**

**For example iron, turmeric, B12, OMEGA 3 and much more!**



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## Micelle Solubilisate




### The initial situation

The way our body absorbs fat, such as CBD oil, is by encapsulating fats with special molecules called micelles. Micelles have a kind of fat-loving end (lipophilic) on one side and a water-loving end (hydrophilic) on the other.


These molecules enclose the CBD oil molecule. The lipophilic end binds to the fatty mass so that the hydrophilic end faces outwards. The micelle, with the oil inside, thus becomes more water-soluble and passes through the mucous membrane into our bloodstream. This process is called micellisation.

For this micellisation, the body needs time and energy. At the same time, however, this process is naturally disturbed by our stomach acid, the enzymes as well as the liver. It is a race against time, as on average only 5-10% CBD oil is absorbed in the available time. This is clearly uneconomical for the consumer.

In summary, the time, allowed by natural digestive mechanisms, is not sufficient to encapsulate enough fat molecules. Therefore, a large part of the CBD active ingredient is excreted.

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The initial situation

Many people do not realise how poorly CBD oil is absorbed. Studies have shown that on average, about 5-10%, and in the best case only 15-20%, of the cannabidiol taken orally can be absorbed by the body.

Our body will never be able to absorb 80-95% of the CBD oil we take. The same applies to curcumin capsules, for example, or all vitamin preparations available on the market in capsule form.

Therefore, it should come as no surprise that such orally consumed active substances can only be absorbed by our body with great difficulty, as our body consists of 65-70% water.

Every time we consume one of the mentioned products above, approximately 90-95% of the ingredients are not absorbed by our body. This can be the case if the substances are dissolved in a vegetable oil or are processed in a dragée.

Water and oil together do not form an emulsion. This circumstance greatly limits the compatibility with the human organism. In this context, one speaks of bioavailability, more on this later.

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## Micelle Solubilisate




### What does Micelle technology do?

The patented Micelle technology mimics the body's own natural encapsulation process (micellisation). This means that products treated with this technology are much easier to absorb by the body. The active ingredient bound to the micelle molecules can pass through the mucous membranes much more easily and effectively due to the water solubility of the technology.


Moreover, for consumers of cannabis with medicinal properties, oral ingestion is not only the most promising alternative to smoking, but also the most preferred way to consume medicines and food supplements.

Thus, in this area, increasing the oral bioavailability of CBD, as well as other active ingredients, is an important development.

The most important difference compared to other CBD products that call themselves water soluble is that the patented micelle technology is 100% natural. The micelle system, which is responsible for the absorption of fat components in our body, is imitated without harmful foreign substances.

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## Micelle Solubilisate



What does Micelle technology do?


Bioavailability is drastically increased thanks to the patented Micelle technology. Another advantage is the much lower energy expenditure of the human body, as it has to micellise much fewer incompatible substances. A detailed study ([link](#), copyright University of Manchester) describes in detail the processes of micellisation and its enormous advantages.

Most other products that call themselves water soluble use some form of liposome system. Compared to liposomes, micelle technology has a much higher stability in terms of temperature, pH levels and body-related stresses.

In addition, the molecules used to encapsulate these liposomal systems are mostly synthetic or synthetically modified compounds (such as polysorbates) derived from the petrochemical industry and suspected of being carcinogenic. Micelle technology, on the other hand, uses 100% natural and non-allergenic molecules.

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## Micelle Solubilisate



### What does bioavailability mean?


The word "bioavailability" describes the absorption properties of a substance, usually by a percentage value. This value is the amount that can actually be absorbed and processed by our body. This value also indicates how quickly and to what extent the substance is absorbed and is available at the site of action.

The body's own processes (digestion) simultaneously reduce the available absorption time.

Example: By definition, the bioavailability of a drug is 100% when it is administered intravenously (approved drug).

This value in this example is achieved because the substance is brought directly and "barrier-free" into the bloodstream.


Nowadays, the most common form of CBD consumption is oral, but in most cases this CBD is dissolved in edible vegetable oils. With this form of consumption, the bioavailability is around 5 - 10%.

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## Micelle Solubilisate



### Technological information

Many water-soluble solutions tend to fall apart at very low concentrations.

These concentrations are called Critical Micelle Concentration (CMC). Below these concentrations, the molecules tend to break apart. The CMC is therefore an important characteristic. Micelle technology has the lowest CMC available on the market, yet the micelles are very stable. This makes Micelle technology perfect for use in low concentration solutions.

Poorly soluble ingredients are surrounded by an amphiphilic shell (imitation micelle), which is itself water-soluble. The altered imitation of the body's own micelles changes the pharmacokinetics of the active ingredients used, which in turn opens up the possibility of a more specific and lower dosage without losing effect.

Although the size of the micelles is in the nanoscale ( $\sim 100 \mu\text{m}$ ), micelle technology is not called nanotechnology because it does not break down the molecules into nanoparticles. Thus, the properties of, for example, CBD are fully preserved. Micelle products are stable and improve the absorption of active ingredients even in critical environments such as high acidity (pH stability 1-14) or temperature fluctuations.

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## Micelle Solubilisate




A wide range of possible applications

The future of this patented Micelle technology lies not only in the medical use of CBD. It can also be used in connection with a wide variety of products, for example in the food, cosmetics or food supplement industries.

The patented Micelle technology is not only suitable for cannabinoids. It also works perfectly for all fat-soluble compounds. For example, it has been tested with vitamins A, C, D, D3, E and K, but also with curcuma, fish oil, iron, coenzyme Q10, artemisinin and olibanum boswellia.

The possibility of mixing these above-mentioned compounds into a range of different drinks, for example, makes it possible to bring completely new types of products to the market. CBD drinks make it easier for people to benefit from cannabinoids in their everyday lives, but at the same time a much wider range of applications is possible.

The products produced with Micelle technology offer highly effective ingredients, with a high absorption rate and high bioavailability. Due to the high absorption rate of Micelle technology, these products will have a prominent role in the food, cosmetics and cannabis industries in the future.

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## Advantages

All compounds show the same advantages:

A fast and almost 100 percent absorption.

Remains very stable in critical environments as well as in low concentrations.

A very easy way to conveniently take potentially health-promoting substances, due to the endless possibilities of adding micellised active ingredients to beverages and foods.

Stored in the dark and at room temperature, they have a stable shelf life of 24-36 months or more.


Price-performance ratio

## Endless possibilities:

Enables novel access, for example into the beverage market.

Introduction of water-soluble cannabinoids and other active ingredients into a variety of food products.

Increased convenience and ease of portability for the end user of diverse active ingredients, for example in the form of beverages.

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## TRADE LIST Full Spectrum Micelle Solubilisate Line

### Curcuma 6%

From 20 pc. 23.- €/pc.	From 21 to 50 pc. 21.- €/pc.	From 51 to 100 pc. 19.- €/pc.	From 101 to 1000 pc. 17.- €/pc.
---------------------------	---------------------------------	----------------------------------	------------------------------------

**water-soluble & vegan | highest purity and 100% natural | bioavailability > 95%**

Shelf life: 18 months, Made in Switzerland.

We would be happy to make individual pricing arrangements for you for larger batches.

Ingredients:  
Curcuma oil resin 6%  
Water  
The filling quantity is 30ml net.

### Coenzyme Q10 2.2%

From 20 pc. 25.- €/pc.	From 21 to 50 pc. 23.- €/pc.	From 51 to 100 pc. 21.- €/Stk.	From 101 to 1000 pc. 19.- €/pc.
---------------------------	---------------------------------	-----------------------------------	------------------------------------

**water-soluble & vegan | highest purity and 100% natural | bioavailability > 95%**

Shelf life: 18 months, Made in Switzerland.

We would be happy to make individual pricing arrangements for you for larger batches.

Ingredients:  
COENZYM Q10 Ubiquinone 2.2%  
DL-Alpha-Tocopherol 0.88%  
Water  
The filling quantity is 30ml net.

### C-O-C Boost Curcuma | Olibanum | Vitamin C

From 20 pc. 22.- €/pc.	From 21 to 50 pc. 20.- €/pc.	From 51 to 100 pc. 18.- €/pc.	From 101 to 1000 pc. 16.- €/pc.
---------------------------	---------------------------------	----------------------------------	------------------------------------

**water-soluble & vegan | highest purity and 100% natural | bioavailability > 95%**

Shelf life: 18 months, Made in Switzerland.

We would be happy to make individual pricing arrangements for you for larger batches.

Ingredients: Curcuma oleoresin (Curcuma longa) 2%  
Boswellia thick extract 1.5%  
Vitamin C 6%  
Water  
The filling quantity is 10ml net.

### Vitamin D3 0.061%

From 20 pc. 19.- €/pc.	From 21 to 50 pc. 17.- €/pc.	From 51 to 100 pc. 15.- €/pc.	From 101 to 1000 pc. 13.- €/pc.
---------------------------	---------------------------------	----------------------------------	------------------------------------

**water-soluble & vegan | highest purity and 100% natural | bioavailability > 95%**

Shelf life: 18 months, Made in Switzerland.

We would be happy to make individual pricing arrangements for you for larger batches.

Ingredients:  
Vitamin D3 (cholecalciferol) 0.061%  
Water  
The filling quantity is 10ml net.

### Vitamin B12 0.03%

From 20 pc. 20.- €/pc.	From 21 to 50 pc. 18.- €/pc.	From 51 to 100 pc. 16.- €/pc.	From 101 to 1000 pc. 14.- €/pc.
---------------------------	---------------------------------	----------------------------------	------------------------------------

**water-soluble & vegan | highest purity and 100% natural | bioavailability > 95%**

Shelf life: 18 months, Made in Switzerland.

We would be happy to make individual pricing arrangements for you for larger batches.

Ingredients:  
Cyanocobalamin 0.03%  
Water  
The filling quantity is 10ml net.

### Omega 3 | 6 | 9 | 5%

From 20 pc. 24.- €/pc.	From 21 to 50 pc. 22.- €/pc.	From 51 to 100 pc. 20.- €/pc.	From 101 to 1000 pc. 18.- €/pc.
---------------------------	---------------------------------	----------------------------------	------------------------------------

**water-soluble & vegan | highest purity and 100% natural | bioavailability > 95%**

Shelf life: 18 months, Made in Switzerland.

We would be happy to make individual pricing arrangements for you for larger batches.

Ingredients:  
Omega-3 fatty acid 5%  
Water  
The filling quantity is 30ml net.

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All prices are exclusive of transport, VAT &  
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