



GUIDELINES
FOR
MEDICAL
MARIJUANA

WHAT IS CBD?

In recent years, the concept of CBD has risen strongly and is popular all over the world. A variety of CBD products have been launched one after another, which is impressive. However, the controversy surrounding the use of CBD oil is just as deep because many people don't fully understand it, simply conflating CBD ingredients with THC and putting them in the "drug" category.

CBD, also known as cannabidiol (DMCBD), has no psychoactive or addictive properties. And THC is another common cannabinoid in marijuana, which can make people get "high" and can produce psychoactive effects, which is the so-called "psychedelic". There is an obvious difference between the two, which needs to be clearly distinguished.

THE DIFFERENT EFFECTS OF CBD & THC

WHAT IS CBD?



- A non-psychoactive cannabis plant compound
- Calming
- Relaxing
- Supports well-being

WHAT IS THC?

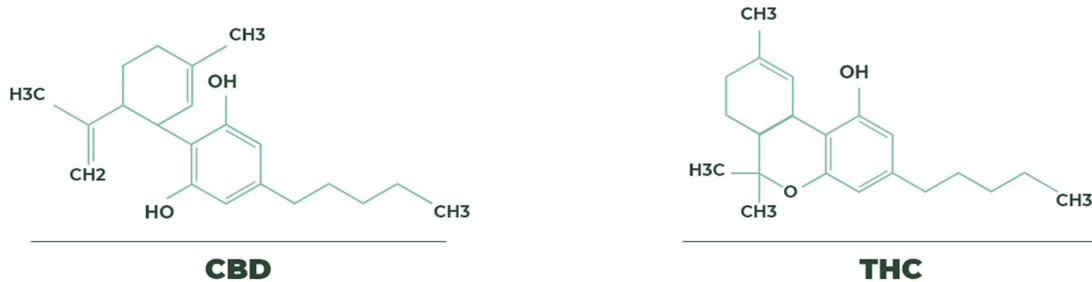


- A psychoactive cannabis plant compound
- Stimulates appetite
- Euphoria
- Drowsiness

THE BENEFITS AND USES OF CBD OIL.

There are dozens of CBD functions and uses. Here are something that everyone cares about the most, which is why it can quickly become popular among everyone.

SEE HOW CBD IS DIFFERENT TO THC IN THE LAB



Cannabidiol (CBD) and Tetrahydrocannabinol (THC) are two of over 100 chemical compounds found in cannabis. They are undoubtedly the most well known to date. With twenty-one carbon atoms, thirty hydrogen and two oxygen. At first glance they seem to have an almost identical chemical structure. But a small change in their arrangement gives them completely different effects.



1.Pain Management

One of the most common uses of CBD oil is pain relief, pain that is difficult to kill with traditional pain relievers or even when painkillers don't work. There is evidence that cannabis (which contains both CBD and THC) was used to treat pain as early as 2900 BC, suggesting that humans are rediscovering what was well known thousands of years ago. CBD oil has shown great promise in treating chronic inflammatory conditions that cause pain, such as arthritis or multiple sclerosis. CBD oil interacts with endocannabinoid

receptors to modulate the body's inflammatory response, which in turn reduces pain perception. Although CBD alone is effective in the treatment of pain, its analgesic effect appears to be superior when combined with THC. However, THC may not be suitable for everyone because of its psychoactive properties and may cause unwanted side effects.

2. Anxiety and Mood-related Disorders Management

CBD oil is also an option to help with mental health conditions such as insomnia, anxiety, psychosis, depressive neurosis, remission of pathological states of autism spectrum disorder, Alzheimer's disease, and more. This is a safer option than prescription drugs, which contain unwanted side effects. Those with generalized anxiety disorder will benefit greatly from consuming a daily CBD oil supplement, as will those who are afraid of public speaking. CBD oil is thought to reduce cognitive impairment that can lead to stuttering or decreased speech performance under stress, helping to improve comfort and overall social behavior. Likewise, people with mild depression may benefit from consuming CBD oil, as it is thought to help stimulate serotonin receptors in the brain, regulating mood and overall well-being.

3. CBD Oil Improves Sleep

One of the most popular uses of CBD oil today is that it helps treat insomnia. Taking CBD oil before bed can improve sleep quality as it relieves anxiety and stress. CBD

oil can even be used for children who may suffer from insomnia due to anxiety or post-traumatic stress disorder (PTSD). Best of all, CBD oil is non-dependent, it works in tandem with your body and its natural endocannabinoid system to re-establish your biological clock and say goodbye to Happy Pill!

4. Immune System and Other Problems

It increases resistance to colds and viral diseases. Various autoimmune diseases such as asthma, a different type of allergy, diabetes, etc. - it helps reduce symptoms. For tumors, for example, CBD oil helps the immune system fight the "enemy", cancer cells, if not completely suppressed (which is possible in the early stages of disease development), and then suppresses the growth of these cells, preventing metastasis. Therefore, it contributes to better prognosis in the treatment of cancer.

CBD VS THC



CBD
NON - PSYCHOACTIVE



THC
PSYCHOACTIVE

THE LEGALITY OF CBD?

Japanese CBD products are completely legal

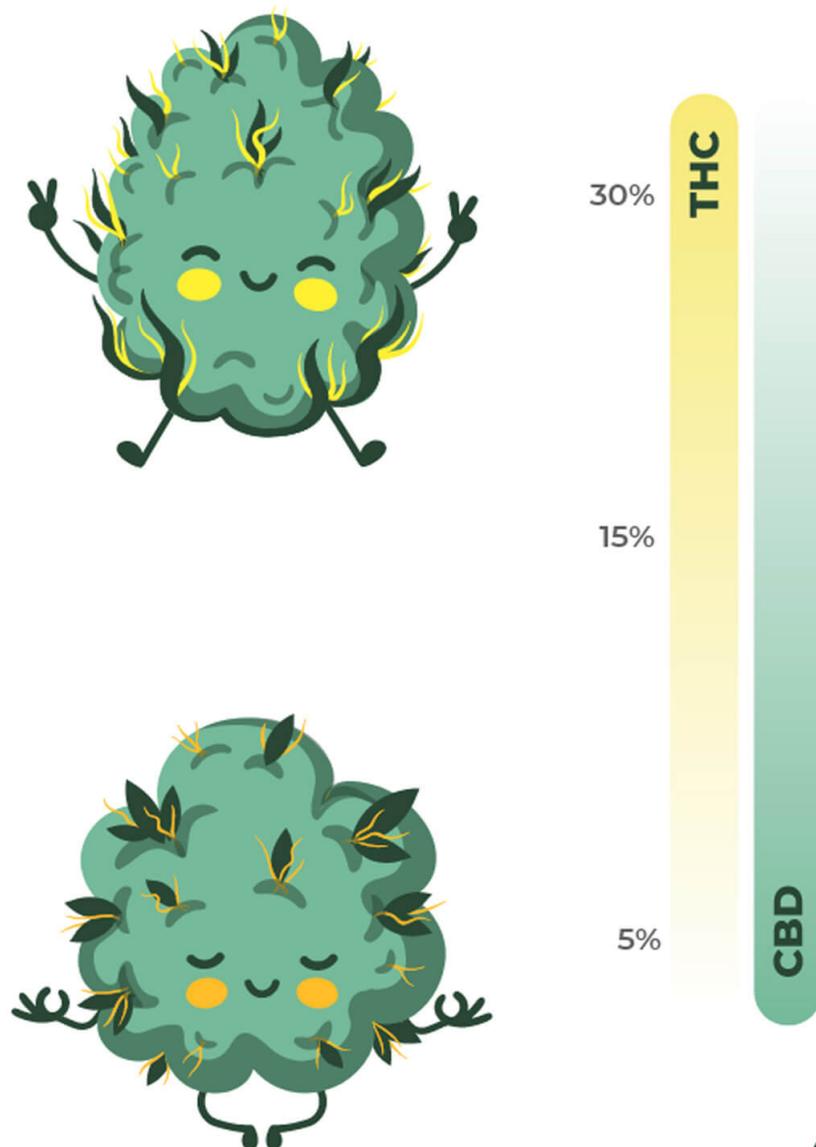
Legal use of CBD in Malaysia

South Korea becomes first country in East Asia to legalize medical marijuana in 2019

Philippines medical marijuana to become legal in 2019

Medical marijuana legal in Thailand in 2018

Medical marijuana legal in Israel in 2018

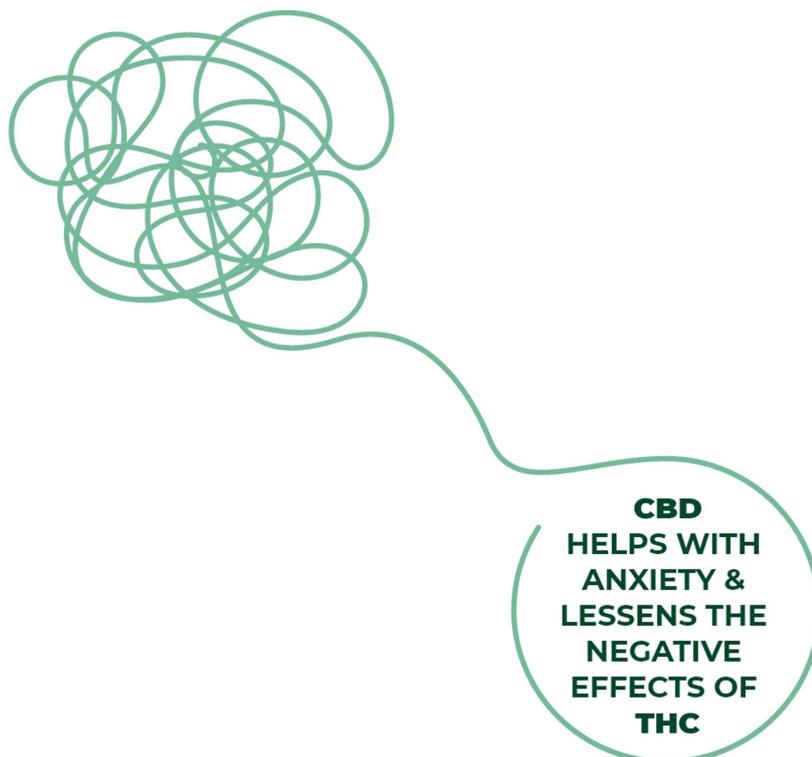


The 2017 Chinese law states that industrial hemp, the original plant of hemp and its extracts, is not illegal with a THC content of less than 0.3 percent. THC levels above 0.3 percent are illegal.

Up to now, China has opened up the legal cultivation and extraction of industrial hemp. China already has a number of legal processing and extraction licenses, becoming the world's largest country in the production and export of CBD! It is not illegal to use CBD in China.

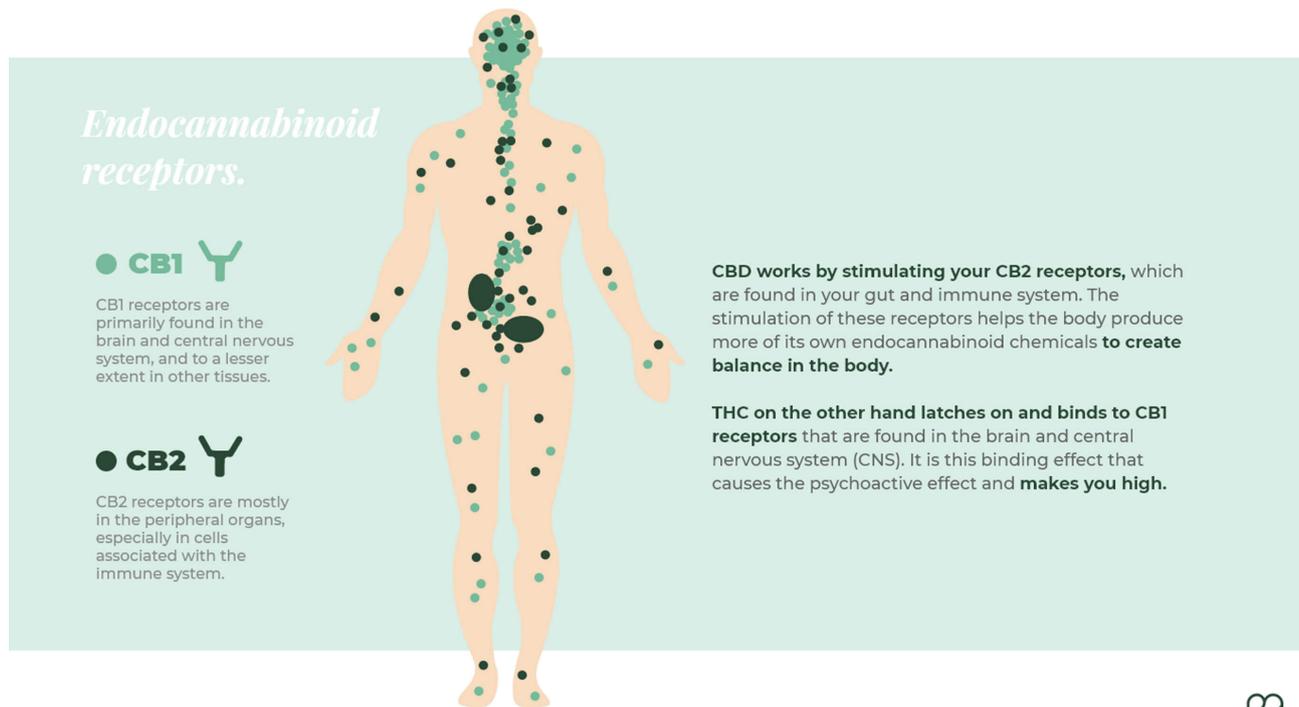
South Africa has removed part of the CBD products from the control list, promoting the development of CBD-related products in the country, while Australia and Europe are also actively discussing how to reasonably relax the management of CBD product.

**CBD CAN POSSIBLY REDUCE ANXIETY.
THC MAY WORSEN IT**



In Latin America, Peru is giving the green light to CBD-derived drugs, and the commercialization of CBD is in full swing, opening the door to companies that have obtained import permits.

Canada, the United States and other countries have been conducting clinical trials of CBD for many years.



THE FIRST OLYMPICS WHERE CBD IS ALLOWED TO BE USED

With the Tokyo Olympics in full swing, what substances athletes can legally use has become the hottest topic. Doping by athletes is one of the most popular and controversial topics in sports, whether to improve their

performance or just for fun. Without exception, doping scandals occur at every Olympics.

Everyone knows that steroids and performance-enhancing drugs are illegal. But some substances are in what's called a gray area, and people aren't always sure whether these are legal or not. CBD is the most famous example, and the question of whether athletes can use it has been discussed more and more frequently in recent years.

WHAT IS CANNABIS?

Cannabis is a flowering plant from the Cannabaceae family, with 3 three primary species: Cannabis sativa, Cannabis indica, and Cannabis ruderalis.



- Hemp is a classification of cannabis sativa plants with 0.2-0.3% THC.
- Plants typically grow tall- 4m or more and have long thin leaves.
- Hemp is used for a wide range of purposes and is also known as 'industrial hemp'.
- Contains high amounts of CBD and is used to create commercial CBD products.

- "Marijuana" refers to cannabis plants that contain high amounts of THC.
- "Marijuana" was coined in the 1900s as the stigma around cannabis grew, the term is widely used, but has controversial origins.
- Marijuana grows to approx 2m tall and has short and wide leaves.
- Typically used for recreational and medical use.



While WADA's stance on cannabis is fairly clear, the situation with CBD is not so simple. Since CBD is a compound without any psychoactive properties, there is no

reason to ban it. And, since many people use CBD as a natural remedy for many ailments, the question of whether banning CBD is justified has been raised.

The WADA decided to lift the ban on CBD in 2018 after examining a wealth of research and scientific evidence on the effects of cannabinoids, especially CBD.

In the new list of prohibited substances, the agency made it clear that CBD is no longer prohibited. Of course, the THC ban is still in effect.

Therefore, the Tokyo Olympics became the first Olympic Games in the history of the Olympic Games to allow the use of CBD.

Whether athletes are using CBD for anxiety, depression, migraines, chronic pain, sleep problems, or any other issue they're experiencing, it's perfectly legal for them to do so.

Many people came out to celebrate WADA's decision to finally be able to use their favorite natural pain reliever. Athletes and coaches all applauded the decision, saying that while it was a small step, it showed they were moving in the right direction.

Lifting the ban on CBD and acknowledging its enormous health benefits is a big step in the right direction for WADA and the entire sporting world.

CERTIFICATES IN LINE WITH INTERNATIONAL IMPORT & EXPORT STANDARDS



CERTIFICATE OF ANALYSIS

prepared for: New Leaf Inc
1301, 20-57, 1Chome, Kusatsushinmachi Nishiku
Hiroshima, Heroshima 733-0834

Polyphenol Resin 5GRAM

| | | | |
|------------------|---------------------------|-------------------|-----------------------|
| Batch ID: | 20210305 | Test ID: | T000152374 |
| Type: | Concentrate | Submitted: | 07/16/2021 @ 09:41 AM |
| Test: | Pesticides | Started: | 7/21/2021 |
| Method: | TM17 (UHPLC-QQQ LC MS/MS) | Reported: | 7/22/2021 |

PESTICIDE RESIDUE

| Compound | Dynamic Range (ppb) | Result (ppb) | Compound | Dynamic Range (ppb) | Result (ppb) |
|---------------------|---------------------|--------------|-----------------|---------------------|--------------|
| Acephate | 35 - 2030 | ND* | Malathion | 236 - 2030 | ND* |
| Acetamiprid | 33 - 2030 | ND* | Metalaxyl | 36 - 2030 | ND* |
| Abamectin | >243 | ND* | Methiocarb | 37 - 2030 | ND* |
| Azoxystrobin | 35 - 2030 | ND* | Methomyl | 36 - 2030 | ND* |
| Bifenazate | 36 - 2030 | ND* | MGK 264 1 | 143 - 2030 | ND* |
| Boscalid | 49 - 2030 | ND* | MGK 264 2 | 95 - 2030 | ND* |
| Carbaryl | 36 - 2030 | ND* | Myclobutanil | 37 - 2030 | ND* |
| Carbofuran | 35 - 2030 | ND* | Naled | 37 - 2030 | ND* |
| Chlorantraniliprole | 45 - 2030 | ND* | Oxamyl | 32 - 2030 | ND* |
| Chlorpyrifos | 36 - 2030 | ND* | Paclobutrazol | 37 - 2030 | ND* |
| Clofentezine | 229 - 2030 | ND* | Permethrin | 225 - 2030 | ND* |
| Diazinon | 229 - 2030 | ND* | Phosmet | 35 - 2030 | ND* |
| Dichlorvos | >235 | ND* | Prophos | 239 - 2030 | ND* |
| Dimethoate | 35 - 2030 | ND* | Propoxur | 35 - 2030 | ND* |
| E-Fenpyroximate | 271 - 2030 | ND* | Pyridaben | 233 - 2030 | ND* |
| Etofenprox | 34 - 2030 | ND* | Spinosad A | 22 - 2030 | ND* |
| Etoxazole | 248 - 2030 | ND* | Spinosad D | 64 - 2030 | ND* |
| Fenoxycarb | >36 | ND* | Spiromesifen | >249 | ND* |
| Fipronil | 35 - 2030 | ND* | Spirotetramat | >245 | ND* |
| Flonicamid | 38 - 2030 | ND* | Spiroxamine 1 | 15 - 2030 | ND* |
| Fludioxonil | >246 | ND* | Spiroxamine 2 | 20 - 2030 | ND* |
| Hexythiazox | 32 - 2030 | ND* | Tebuconazole | 231 - 2030 | ND* |
| Imazalil | 226 - 2030 | ND* | Thiacloprid | 34 - 2030 | ND* |
| Imidacloprid | 37 - 2030 | ND* | Thiamethoxam | 38 - 2030 | ND* |
| Kresoxim-methyl | 46 - 2030 | ND* | Trifloxystrobin | 34 - 2030 | ND* |

* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL

 Sam Smith
22-Jul-2021
9:05 AM

 Tavlør Brevik
22-Jul-2021
9:07 AM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.





CERTIFICATE OF ANALYSIS

prepared for: NEW LEAF INC
1301, 20-57, 1CHOME, KUSATSUSHINMACHI NISHIKU
HIROSHIMA, HEROSHIMA 733-0834

Polyphenol Resin 3GRAM

| | | | |
|------------------|------------------------------|------------------|-----------------------|
| Batch ID: | 20210305 | Test ID: | T000152377 |
| Matrix: | Concentrate | Received: | 07/16/2021 @ 09:41 AM |
| Test: | Microbial Contaminants | Started: | 7/16/2021 |
| Method: | TM24, TM25, TM26, TM27, TM28 | Reported: | 7/21/2021 |

MICROBIAL CONTAMINANTS

| Contaminant | Method | LOD | LLOQ | ULOQ | Result |
|-------------------------------|--------------------------|-----------------------|-----------------------|---------------------------|----------------------|
| Total Aerobic Count* | TM-26 Culture Plating | 10 ² CFU/g | 10 ³ CFU/g | 1.5x10 ⁵ CFU/g | None Detected |
| Total Coliforms* | TM-27 Culture Plating | 10 ¹ CFU/g | 10 ² CFU/g | 1.5x10 ⁴ CFU/g | None Detected |
| Total Yeast and Molds* | TM-24 Culture Plating | 10 ¹ CFU/g | 10 ² CFU/g | 1.5x10 ⁴ CFU/g | None Detected |
| E. coli | TM-28 Culture Plating | 1 CFU/g | NA | NA | Absent |
| E. coli (STEC) | TM-25 PCR | 1 CFU/g | NA | NA | Absent |
| Salmonella | TM-25 PCR | 1 CFU/g | NA | NA | Absent |

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

CFU/g = Colony Forming Units per Gram.

LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation

LLOQ = Lower Limit of Quantitation

FINAL APPROVAL


Robert Belfon
20-Jul-2021
5:30 PM


Sarah Henning
21-Jul-2021
9:04 AM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03



CERTIFICATE OF ANALYSIS

Prepared for:

Polyphenol Resin 5GRAM

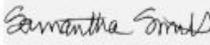
New Leaf Inc

| | | | |
|--|--|------------------------------------|--|
| Batch ID or Lot Number: 20210305 | Test: Metals | Reported: 7/21/21 | Location: 1301, 20-57, 1Chome, Kusatsushii Hiroshima, Heroshima 733-0834 |
| Matrix: Unit | Test ID: T000152375 | Started: 7/20/21 | USDA License: N/A |
| Status: N/A | Method: TM19 (ICP-MS): Heavy Metals | Received: 07/16/2021 @ 09:41 AM | Sampler ID: N/A |

HEAVY METALS DETERMINATION

| Compound | Dynamic Range (ppb) | Result (ppb) | Notes |
|----------|---------------------|--------------|-------|
| Arsenic | 0.050 - 4.97 | ND | |
| Cadmium | 0.044 - 4.43 | ND | |
| Mercury | 0.045 - 4.46 | ND | |
| Lead | 0.044 - 4.41 | ND | |


Ryan Weems
21-Jul-21
3:03 PM


Sam Smith
21-Jul-21
3:09 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



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