



60 Capsules Bottle



### Turmeric (*Curcuma longa*)

**Turmeric** and especially its most active compound **Curcumin** have many scientifically-proven health **benefits**, such as the potential to prevent heart disease, Alzheimer's and cancer. It's a potent anti-inflammatory and antioxidant and may also help improve symptoms of depression and arthritis. A member of the ginger family, it has been used in **Ayurvedic Medicine** for thousands of years.

One [study](#) published in 2018 in Molecular Nutrition & Food Research, found that the cheaper the turmeric product, the more likely it was to have chemical compounds suggestive of Synthetic Curcumin; and products with turmeric root were more likely to have higher lead levels.

The primary active component of **Turmeric** - and the one that gives the spice its characteristic yellow colour - is **Curcumin**. In fact, you can credit Curcumin as the compound responsible for most of turmeric's potential health benefits. "Curcumin is a natural antioxidant that has anti-inflammatory benefits, as well as [possible] benefits related to slowing the aging process and preventing **Alzheimer's disease** and potentially **Depression**,"

Unfortunately, **Turmeric** (and **Curcumin** on its own) doesn't absorb well into the bloodstream, and having it in curry once a month is unlikely to give you the desired anti-inflammatory and antioxidant benefits, says Dana Angelo White, RD, owner of Dana White Nutrition. To reach the amounts of turmeric and Curcumin shown to offer benefits in research studies, you'll have to turn to supplements.

To reap the benefits of taking a turmeric supplement then ensure that it incorporates black pepper. “There is a compound in black pepper called piperine that actually helps to make turmeric more bioavailable,” White explains. *Bioavailability* refers to the amount of a substance that’s absorbed or able to be used by the body. For instance, a past study found that consuming 20mg of piperine along with 2g of Curcumin increased bioavailability by 2,000 %

## **How Curcumin’s Antioxidant and Anti-Inflammatory Effects May Boost Health**

The likely driver of turmeric’s potential health benefits is **Curcumin**, the primary active chemical in this yellow-orange spice. “Curcumin is what has mostly been studied because of its important signalling pathways. It acts mostly in two areas: It’s an antioxidant and an anti-inflammatory,” says Marina Chaparro, RDN, MPH, a certified diabetes educator and a national spokesperson for the Academy of Nutrition and Dietetics.

According to an article published in January 2015 in the *Indian Journal of Clinical Biochemistry*, antioxidants help fight against free radicals, which are molecules produced by behaviours like smoking, drinking alcohol, eating fried food, or being exposed to air pollution or pesticides, and which cause oxidative damage. These behaviours, according to a blog article from Huntington's Outreach Project for Education at Stanford University, trigger cell dysfunction and may increase your risk for chronic diseases including diabetes. The cool thing about antioxidants is that they scavenge those harmful free radicals and render them nontoxic to cells, helping stave off disease.

Inflammation is the body’s natural response when fighting an illness or injury, and symptoms of inflammation can include pain, swelling, and redness, notes an article published by InformedHealth.org. Researchers believe inflammation and oxidative damage are closely related in their ability to contribute to disease risk, as noted in a review published in January 2016 in *Oxidative Medicine and Cellular Longevity*. An article in *EMBO Reports* makes the case that inflammation is the underlying state of just about every disease, from autoimmune conditions such as rheumatoid arthritis to metabolic ones such as obesity, and even infectious diseases like the common cold. The potential to stunt or treat chronic conditions is why agents that block inflammation are so fascinating to scientists.

**We Have Produced a Turmeric Powder with No Heat - No Boiling - No Grinding  
Contains 5% of Black Pepper and our Turmeric/Curcumin is not a chemical extract**

**Lab test 15-03-2016 with Agrobio Laboratories France – Curcumin Content of 115,900 mg/kg**

**Lab test 16-01-2018 with SGS Laboratories Hong Kong - Curcumin Content of 93,400 mg/kg**

**These High values are achievable exclusively by our Freeze Drying Process of**

**Cellular Preservation Technology (CPT)**

**Please read about CELLULAR PRESERVATION TECHNOLOGY at the end of the brief.**



Much of the turmeric powder in the market will have been processed by boiling or steaming as a first step after washing. This is done to remove the raw odours, gelatinize the starch to produce a more uniform colour and reduce drying time by softening the rhizomes,

During the boiling/steaming process enzymes are denatured and the value of thermo-sensitive vitamins and vital ingredients decline dramatically. Afterwards, the Turmeric would be put into an oven to be dried, applying more heat to further denaturing the rhizomes, then ground.

By using Cellular Preservation Technology (CPT) the turmeric is not exposed to heat during any part of the process. In addition CPT turmeric powder is preserved to maintain the cellular and molecular structure of turmeric as it grows in nature with the highest levels of both bioactivity and bio-availability possible.

CPT activated turmeric powder has the taste, odor, and health benefits equivalent to eating freshly ground turmeric. High concentrations found in extracts are not necessary and may, in fact, be less effective due to the lack of synergy contained in nature's design. The healing message is never delivered by one isolated ingredient no matter how concentrated it may be. The fiber and other essential components are necessary for the full effect and for location specific delivery. If you use turmeric as part of your daily regimen the accumulated properties will produce the desired results.

**Please read about CELLULAR PRESERVATION TECHNOLOGY at the end of the brief.**

Turmeric contains hundreds of chemical species including a variety of curcuminoids working together in synergy. If we isolate one or several curcuminoids we exclude others that contain essential oils that help make Turmeric easier for your body to absorb and metabolize. While Curcumin is the most notable and most important of the curcuminoids in turmeric its benefits are more effective if it is not isolated as a single extract.

**Brain Function and Health:** Curcumin crosses the blood-brain barrier to exercise a direct influence in reducing oxidative damage and inflammation in the brain. Superherbs CPT process also captures bioactive compounds such as aromatic-turmerone which encourages the growth of nerve cells creating the potential to help repair the brain and thereby prevent neurodegenerative problems associated with dementia such as Alzheimer's. Allegorical support for the benefits of turmeric includes the low incidence of Alzheimer's in areas such as India where turmeric (contained in their curry) is a staple in their daily diet. Are these folks taking isolated Curcumin ex-tracts? Certainly not, they are using the whole turmeric root and we believe that you should do the same and enjoy even greater benefits since our CPT activated turmeric powder is not boiled or cooked.

**How Turmeric Regenerates the Brain (Neurogenesis)**

**Turmeric** is one of the most thoroughly researched plants in existence today! Its medicinal properties and components have been the subject of over 5600 peer reviewed and published biomedical studies. It is no wonder that turmeric supports so many bodily functions, including brain regeneration! Our understanding of the brain has come a long way. It wasn't so long ago that neurogenesis that is, the brain's ability to regenerate its own cells was deemed impossible. Now we not only know that cell regeneration is a natural function of the brain, but also that we can support and encourage this process with healing foods like turmeric. Many studies have already established a strong link between neuro inflammation and neurological

deterioration. Thus, a compound like turmeric capable of simultaneously reducing inflammation and supporting neurogenesis (a process which keeps the brain young and staves off cognitive decline) is truly a godsend. A recent study has identified a component in turmeric called ar-turmerone, and found that it has the remarkable ability to support neurogenesis by speeding up the rate at which brain cells regenerate! This same study even demonstrated that the presence of ar-turmerone in the brain caused some brain stem cells to move to areas of the brain that require new neurons. Ar-turmerone helps organize and supports the brain's self-healing potential.

**Neurons** form new connections and also grow and multiply in the brain. A growth hormone, essential to this process is BDNF (Brain-Derived Neurotropic Factor). This hormone decreases as you grow older. Decreased levels of BDNF are linked to brain disorders such as Alzheimer's disease, depression (see below) and age-related decreases in cognitive functions. Curcumin has been shown to increase levels of BDNF.

**Anti-Inflammation:** Inflammation is part of the body's natural defence system, repairing damage and fighting foreign invaders, but when short-term inflammation becomes chronic, appropriate therapeutic interventions are needed.

Turmeric displays powerful anti-inflammatory effects. Given the fact that inflammation is linked to a wide spectrum of health issues including heart disease, metabolic syndrome, arthritis, and de-generative nervous system disorders such as Alzheimer's disease and contributes significantly to the aging process, turmeric makes a great daily supplement to your diet.

**The protein tangles** know as Amyloid plaque are a feature of Alzheimer's disease that Curcumin can help to clear. In doing so, Turmeric may prove to help slow down and even reverse the progression of Alzheimer's.

Curcumin supplementation has shown the ability to effectively improve the symptoms of rheumatoid arthritis (joint inflammation) due to its anti-inflammatory prowess.

Turmeric is a highly effective anti-inflammatory as powerful as anti-inflammatory drugs that have a long list of negative side effects. Curcumin acts on the molecular level to block NF-kB, a molecule that travels into the nucleus of cells and turns on the gene expression for inflammation. This effectively interrupts the inflammation cycle.

**Antioxidant Capacity:** A wide range of diseases and effects of aging are associated with free radical imbalance. Excessive free radicals that attack our healthy cells are kept in check by antioxidants. Curcumin has a double antioxidant effect. It contains strong antioxidant compounds that neutralize free radicals and, at the same time, boosts the body's natural ability to synthesize the enzymes that act as our endogenous antioxidants. It acts along both of these metabolic pathways at the same time.

**Cancer Protection:** Studies show that Curcumin reduces the growth of blood vessels in tumours, reduces metastasis (spread of cancer) and contributes to apoptosis (the death of cancer cells). Proof that Curcumin can treat cancer in humans has yet to be proven, however there is evidence that it may prevent some cancers from occurring in the first place, specifically cancers of the digestive system (such as colorectal cancer). In a study of 44 men with lesions of the colon that tend to turn cancerous, 4 grams of Curcumin per day for 30 days reduced the number of lesions by 40%.

**Cardiac Health:** Heart disease, the greatest killer of mankind, is a complicated matter with various contributing factors. One of the major causes of heart disease is endothelial dysfunction which is the

inability of the endothelium to regulate blood pressure, blood clotting and other factors. Studies attribute Curcumin with improvements in endothelial function as effective as the drug Atorvastatin. This is in addition to the reduction of inflammation and oxidation which greatly affect cardiac health.

In a study involving 121 patients undergoing coronary artery bypass surgery, the patients were randomized to either placebo or 4 grams of Curcumin per day, only a few days before and after the surgery. The Curcumin group demonstrated a 65% decreased risk of heart attack in the hospital.

**Anti-Depressant:** Curcumin shows promise as an anti-depressant. Depression is linked to reduced levels of brain-derived neurotrophic factor (BDNF - a brain growth hormone) and a shrinking hippocampus (the area of the brain associated with learning and memory). Curcumin has been shown to boost levels of BDNF and there is evidence that Curcumin boosts neurotransmitters in the brain such as serotonin and dopamine. In a study of 60 patients suffering from depression, Curcumin was shown to be as effective as Prozac in alleviating symptoms of depression.

**Anti-Aging:** Given curcumin's anti-inflammatory and antioxidant capabilities, support of heart function, and defence and prevention against cancer and neurodegenerative disorders, Turmeric has become known as an anti-aging supplement.

To dramatically increase the absorption of Curcumin into the bloodstream it is helpful to consume black pepper (which contains piperine) which enhances the absorption of Curcumin by up to 2000%. For this reason our CPT dynamic freeze dried Curcumin powder contains appropriate levels of black pepper.

## 10 Evidence-based health benefits of Turmeric - Curcumin

Turmeric may be the most effective nutritional supplement in existence. Many high quality studies show that it has major benefits for your body and brain. Here are the top 10

### 1. Turmeric Contains Bioactive Compounds with Powerful Medicinal Properties.

Turmeric is the spice that gives curry its yellow colour.

It has been used in India for thousands of years as a spice and medicinal herb. Recently, science has started to back up what the Indians have known for a long time... it really does contain compounds with medicinal properties.

These compounds are called curcuminoids, the most important of which is Curcumin.

Curcumin is the main active ingredient in turmeric. It has powerful anti-inflammatory effects and is a very strong antioxidant.

However, the Curcumin content of turmeric is not that high... it's around 3%, by weight.

Most of the studies on this herb are using turmeric extracts that contain mostly Curcumin itself, with dosages usually exceeding 1 gram per day. It would be very difficult to reach these levels just using the turmeric spice in your foods.

Therefore, if you want to experience the full effects, then you need to take an *extract* that contains significant amounts of Curcumin.

Unfortunately, Curcumin is poorly absorbed into the bloodstream. It helps to consume black pepper with it, which contains piperine... a natural substance that enhances the absorption of Curcumin by 2000%.

Curcumin is also fat soluble, so it may be a good idea to take it with a fatty meal.

**SUMMARY:** Turmeric contains Curcumin, a substance with powerful anti-inflammatory and antioxidant properties. Most studies used turmeric extracts that are standardized to include large amounts of Curcumin.

## **2. Curcumin is a Natural Anti-Inflammatory Compound**

Inflammation is incredibly important.

It helps the body fight foreign invaders and also has a role in repairing damage.

Without inflammation, pathogens like bacteria could easily take over our bodies and kill us.

Although acute (short-term) inflammation is beneficial, it can become a major problem when it is chronic (long-term) and inappropriately deployed against the body's own tissues.

It is now believed that chronic, low-level inflammation plays a major role in almost every chronic, Western disease. This includes heart disease, cancer, metabolic syndrome, Alzheimer's and various degenerative conditions.

Therefore, anything that can help fight chronic inflammation is of potential importance in preventing and even treating these diseases.

It turns out that Curcumin is strongly anti-inflammatory; it is so powerful that it matches the effectiveness of some anti-inflammatory drugs.

Curcumin actually targets multiple steps in the inflammatory pathway, at the molecular level.

Curcumin blocks NF-kB, a molecule that travels into the nuclei of cells and turns on genes related to inflammation. NF-kB is believed to play a major role in many chronic diseases.

Without getting into the gory details (inflammation is extremely complicated), the key takeaway here is that Curcumin is a bioactive substance that fights inflammation at the molecular level.

In several studies, its potency has compared favourably to anti-inflammatory pharmaceutical drugs... except without the side effects .

**SUMMARY: Chronic inflammation is known to be a contributor to many common Western diseases. Curcumin can inhibit many molecules known to play major roles in inflammation.**

## **3. Turmeric Dramatically Increases the Antioxidant Capacity of the Body**

Oxidative damage is believed to be one of the mechanisms behind aging and many diseases.

It involves free radicals, highly reactive molecules with unpaired electrons.

Free radicals tend to react with important organic substances, such as fatty acids, proteins or DNA.

The main reason antioxidants are so beneficial, is that they protect our bodies from free radicals.

Curcumin happens to be a potent antioxidant that can neutralize free radicals due to its chemical structure.

But Curcumin also boosts the activity of the body's own antioxidant enzymes.

In that way, Curcumin delivers a one-two punch against free radicals. It blocks them directly, and then stimulates the body's own antioxidant mechanisms.

**SUMMARY: Curcumin has powerful antioxidant effects. It neutralizes free radicals on its own, and then stimulates the body's own antioxidant enzymes.**

## **4. Curcumin Boosts Brain-Derived Neurotrophic Factor, Linked to Improved Brain Function and a Lower Risk of Brain Diseases**

Back in the day, it was believed that neurons weren't able to divide and multiply after early childhood.

However, it is now known that this does happen.

The neurons are capable of forming new connections, but in certain areas of the brain, they can also multiply and increase in number.

One of the main drivers of this process is Brain-Derived Neurotrophic Factor (BDNF), which is a type of growth hormone that functions in the brain.

Many common brain disorders have been linked to decreased levels of this hormone. This includes depression and Alzheimer's disease.

Interestingly, Curcumin can increase brain levels of BDNF.

By doing this, it may be effective at delaying or even reversing many brain diseases and age-related decreases in brain function.



There is also the possibility that it could help improve memory and make you smarter. Makes sense given its effects on BDNF levels, but this definitely needs to be tested in human controlled trials.

**SUMMARY: Curcumin boosts levels of the brain hormone BDNF, which increases the growth of new neurons and fights various degenerative processes in the brain.**

## **5. Curcumin Leads to Various Improvements that Should Lower your Risk of Heart Disease**

Heart disease is the biggest killer in the world.

It has been studied for many decades and researchers have learned a lot about why it happens.

It turns out that heart disease is incredibly complicated and there are various things that contribute to it.

Curcumin may help reverse many steps in the heart disease process.

Perhaps the main benefit of Curcumin when it comes to heart disease, is improving the function of the endothelium, which is the lining of the blood vessels.

It is well known that endothelial dysfunction is a major driver of heart disease and involves an inability of the endothelium to regulate blood pressure, blood clotting and various other factors.

Several studies suggest that Curcumin leads to improvements in endothelial function. One study shows that it's as effective as exercise, another shows that it works as well as the drug Atorvastatin.

But Curcumin also reduces inflammation and oxidation (as discussed above), which are also important in heart disease.

In one study, 121 patients who were undergoing coronary artery bypass surgery were randomized to either placebo or 4 grams of Curcumin per day, a few days before and after the surgery.

The Curcumin group had a 65% decreased risk of experiencing a heart attack in the hospital.

**SUMMARY: Curcumin has beneficial effects on several factors known to play a role in heart disease. It improves the function of the endothelium and is a potent anti-inflammatory agent and antioxidant.**

## **6. Turmeric Can Help Prevent (and Perhaps Even Treat) Cancer**

Cancer is a terrible disease, characterized by uncontrolled growth of cells.

There are many different forms of cancer, but they do have several commonalities, some of which appear to be affected by Curcumin supplementation.

Researchers have been studying Curcumin as a beneficial herb in cancer treatment. It can affect cancer growth, development and spread at the molecular level.

Studies have shown that it can reduce angiogenesis (growth of new blood vessels in tumours), metastasis (spread of cancer), as well as contributing to the death of cancerous cells.

Multiple studies have shown that Curcumin can reduce the growth of cancerous cells in the laboratory and inhibit the growth of tumours in test animals.

Whether high-dose Curcumin (preferably with an absorption enhancer like pepper) can help treat cancer in humans has yet to be tested properly.

However, there is some evidence that it may help prevent cancer from occurring in the first place, especially cancers of the digestive system (like colorectal cancer).

In one study in 44 men with lesions in the colon that sometimes turn cancerous, 4 grams of Curcumin per day for 30 days reduced the number of lesions by 40%.

Maybe Curcumin will be used along with conventional cancer treatment one day. It's too early to say for sure, but it looks promising and this is being intensively studied as we speak.

**SUMMARY: Curcumin leads to several changes on the molecular level that may help prevent and perhaps even treat cancer.**

## **7. Curcumin May be Useful in Preventing and Treating Alzheimer's Disease**

Alzheimer's disease is the most common neurodegenerative disease in the world and a leading cause of dementia.

Unfortunately, no good treatment is available for Alzheimer's yet.

Therefore, preventing it from showing up in the first place is of utmost importance.

There may be good news on the horizon, because Curcumin has been shown to cross the blood-brain barrier.

It is known that inflammation and oxidative damage play a role in Alzheimer's disease. As we know, Curcumin has beneficial effects on both.

But one key feature of Alzheimer's disease is a build-up of protein tangles called Amyloid plaques. Studies show that Curcumin can help clear these plaques.

Whether Curcumin can really slow down or even reverse the progression of Alzheimer's disease needs to be studied properly.

**SUMMARY: Curcumin can cross the blood-brain barrier and has been shown to lead to various improvements in the pathological process of Alzheimer's disease.**

### **8. Arthritis Patients Respond Very Well to Curcumin Supplementation**

Arthritis is a common problem in Western countries.

There are several different types, but most involve some sort of inflammation in the joints.

Given that Curcumin is a potent anti-inflammatory, it makes sense that it could help with arthritis. Several studies show this to be true.

In a study of patients with rheumatoid arthritis, Curcumin was even more effective than an anti-inflammatory drug.

Many other studies have looked at the effects of Curcumin on arthritis and noted improvements in various symptoms.

**SUMMARY: Arthritis is a common disorder characterized by joint inflammation. Many studies show that Curcumin can help treat symptoms of arthritis and is in some cases more effective than anti-inflammatory drugs.**

### **9. Studies Show that Curcumin has Incredible Benefits against Depression**

Curcumin has shown some promise in treating depression.

In a controlled trial, 60 patients were randomized into three groups.

One group took Prozac, another group took a gram of Curcumin and the third group took both Prozac and Curcumin.

After 6 weeks, Curcumin had led to improvements that were similar to Prozac. The group that took both Prozac and Curcumin fared best.

According to this (small) study, Curcumin is as effective as an antidepressant.

Depression is also linked to reduced levels of brain-derived neurotropic factor and a shrinking hippocampus, a brain area with a role in learning and memory.

Curcumin boosts BDNF levels, potentially reversing some of these changes.

There is also some evidence that Curcumin can boost the brain neurotransmitters serotonin and dopamine.

**SUMMARY: A study in 60 depressed patients showed that Curcumin was as effective as Prozac in alleviating the symptoms of depression.**

### **10. Curcumin May Help Delay Aging and Fight Age-Related Chronic Diseases**

If Curcumin can really help prevent heart disease, cancer and Alzheimer's... then this would have obvious benefits for longevity.

For this reason, Curcumin has become very popular as an anti-aging supplement.

But given that oxidation and inflammation are believed to play a role in aging, Curcumin may have effects that go way beyond just prevention of disease.



If you want to buy a turmeric/Curcumin supplement, then I recommend that you find one with Black Pepper (piperine), which is the substance that enhances absorption of Curcumin by 2000%. Without this substance, most of the Curcumin just passes through your digestive tract.



## **CELLULAR PRESERVATION TECHNOLOGY**

**It is this process that distinguishes our herbs from all others.**

1. Our herbs do not require any preservatives or heat treatment to prevent degradation. If this were a crème or liquid it would require preservatives since moisture is the medium for the enzymes and microorganisms to degrade the product.
2. The enzymes, vitamins, minerals and other vital ingredients are preserved with their full potency intact. The value of the herbs and botanicals are kept at their highest level.
3. It is exactly this high level of preservation of the vital ingredients that create the results that we would otherwise not achieve in traditional drying methods, even if we had used exactly the same ingredients in exactly the same proportions.
4. If we use heat to remove the moisture (de-hydration), the heat will denaturize the enzymes (making them ineffective), reduce the protein levels considerably and oxidize thermo-sensitive vitamins such as Vit C and beta-carotene.
5. The freeze dry process eliminates water without exposure to heat thereby preserving all of the enzymes, vitamins, minerals, and bioactive compounds.
6. The very small particle size (micronization - no need for grinding) and porous particle structure achieved by the Bio-Dynamic Freeze Dry Process allow our herbs to be more easily absorbed and metabolized. Vitamins such as Vit C are fat soluble and are easily and quickly absorbed into our body.
7. The effectiveness and capabilities of all our herbs are greatly enhanced due to the particulate size and structure produced by our transitional and evolutionary Freeze Dry process.


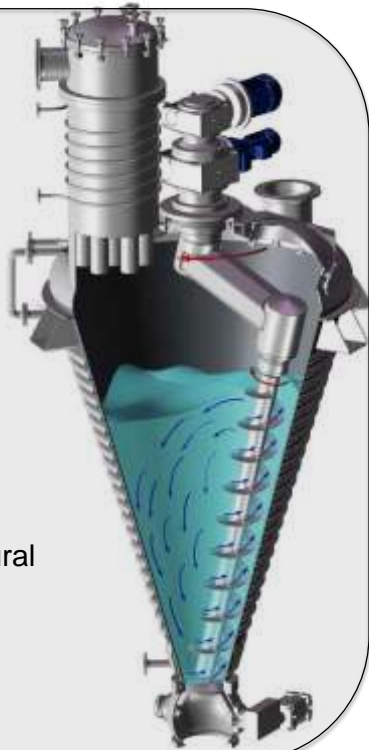


### **The Technology – Cellular Preservation Technology (CPT)**

Cellular Preservation Technology or CPT is a proprietary technology which utilizes a modified form of freeze drying.

Freeze Drying has been used for centuries however the common industry standard freeze dry method typically uses traditional 'static' freeze drying with a further process of mechanical grinding.

### **Image 1 – Traditional Vs Cellular Preservation Technology (CPT)**

<h4>Traditional freeze drying</h4>  <ul style="list-style-type: none"><li>- multi-step process; bacteria and mould growth risk.</li><li>- static materials sitting on trays; 10-20% residual moisture</li><li>- product ground into a powder; product cell structure destroyed</li></ul>	<h4>Cellular Fracture Line technology</h4>  <ul style="list-style-type: none"><li>- 1-step process</li><li>- super frozen particles fly around in the product chamber</li><li>- no mechanical grinding.</li><li>- brittle material motion and sublimation of ice structure that hold it together causes product to break along natural elemental fracture lines.</li><li>- &lt;0.1% residual moisture</li></ul>
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CPT is a key component in the creation of our functional foods. It allows us to preserve a whole food in its fresh form, thus maintaining all of the medicinal activity of a live plant while providing the safety of a stable commodity.

This proprietary and transitional preservation process gives us the unique ability to provide a superior product compared to anything else available on the market today. The 'secret' to our technology is the Herbs are dried while they remain frozen in a vacuum state, rather than sitting motionless on trays (as in the traditional tray freeze drier), the product is flying round in a vortex. The deeply flash-frozen CPT granules decrease in size due to sublimation of the connecting ice structure and break into increasingly smaller particles along natural elemental fracture lines.

This creates a smaller particle size and porous structure without cellular hemorrhaging, caused by mechanical grinding of the traditional process as used in the industry today. CPT particles are much more easily absorbed and metabolized (more bio-available), and are more soluble for use as a catalyst ingredient in other formulations.

### **Solubility**

As a food ingredient our herbs are highly soluble. Solubility ties into taste as well as ease to combine with other ingredients. This high level of solubility (enhanced by the CPT freeze dry process creates a more soluble particle structure),

### Fresh Super herbs and Super foods

As soon as our botanicals are harvested they naturally begin to degrade. It is critically important to get them into the CPT process immediately after harvest. The logistics are challenging in any case, but the fact that they are grown at our doorstep in the mountains surrounding Chiang Mai, Thailand makes it all possible.

### Higher Bioactivity Superior Efficacy

The objective achieved by CPT is preservation not only of the targeted ingredients but preservation of the entire cellular and molecular structure of the live plant. This is achieved by:

- An Evolutionary and Transitional Freeze Dry Process where the product is never exposed to the destructive oxidative forces of heat.
- Plant tissue fractures between/along the layers of the cell walls preserving cellular integrity and improving the retention of the bioactive intracellular contents.
- Water removed as a liquid at an extremely low constant temperature (minus 55 deg C) evaporates at a constant rate while the quantity of water steadily decreases. This creates surface tension. Any solid structure in contact with the water will normally experience surface tension strong enough to damage fragile cell walls; CPT removes water in its gaseous state (water vapor) and avoids this destructive surface tension.
- Exposure of the entire surface area to sublimation results in “even” drying which preserves cellular integrity.

The net result is preservation of the complex synergistic structure as close as possible to how it exists in nature. This translates to a more highly bioactive more effective powder.

### Higher Absorption and Higher Bio-Availability

Particles break down inside the product chamber with minimal need for mechanical grinding. They break down due to the movement of the super frozen particles and sublimation of the ice structure that holds the particles together. This causes them to fall into small porous particles along the natural Cellular Lines creating soft, porous particles which have more surface area per unit of weight and therefore are absorb more easily.

The function and value of our food supplements lie not in lab tests alone, but in their energetic breakdown and uptake inside your body and the preservation of enzymes, proteins and vitamins.

The ability of your body to store or use these nutrients is called bio-availability – yet another huge advantage of our Cellular Preservation Technology activated botanicals.

The quality and effectiveness of our Products are the result of the remarkable protocols and processes we employ from the fields to the finished product. For details on this evolutionary process, please contact us at [www.cptsuperherbs.com](http://www.cptsuperherbs.com)

## Curcumin Lab Test Certificate France 2016

**AGROBIO**

Laboratoires AGROBIO

GRUPE **Qualtech**

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### RAPPORT D'ANALYSES N° VZ-16030341-1

Code Client : 107273  
Bon de commande :  
Devis : D0319-16

Vezein, le 24/03/2016

**BOSWELLIA**  
*François Gérard*  
7 rue de la Bretonnière  
Saint Bonnet  
  
26330 Châteauneuf de Galaure  
FRANCE

ECHANTILLON N° : 16030341

Date de Réception : 15/03/2016

Dénomination : Curcuma longa sun dried	Code formule/mat. première :
Marque : -	DLC / DLUO :
Lot : -	Conservation : Température ambiante
Identifiant Fournisseur :	Conditionnement : Sachet en plastique
Date de fabrication :	

Analyses(Méthodes)	Résultats	Spécifications	Unité
Curcumine et curcuminoides Date d'analyse : 22/03/2016	(HPLC-UV)		
Curcumine et curcuminoides	11590		mg/100g de produit

Commentaires :

C.LE ROUX  
Responsable Pôle Analyses



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# Curcumin Lab Test Certificate Hong Kong 2018



## Test Report

No. HKGFD1701038501

Date: 16 Jan 2018

Page 1 of 2

SPA MONKEYS LIMITED

15/F, SOUNDWILL PLAZA II - MIDTOWN, 1-29 TANG LUNG STREET, CAUSEWAY BAY  
HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as :

Turmeric powder in vacuum bag

SGS Job No. : 3955056  
Date of Sample Received : 21 Dec 2017  
Conditions of Sample Received : Sample was in unopened plastic bag and was delivered under ambient temperature  
Sample Original Storage Condition : Ambient temperature  
Sample Quantity Received : 1  
Manufacturer : The Life Biome Co  
Country of Origin : Thailand  
Testing Period : 29 Dec 2017 - 12 Jan 2018  
Test Requested/Test Method : - Curcumin was conducted with reference to DB 34/T 1537-2011.  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS Hong Kong Limited.

Lai Kit Ying, Kitty  
Technical Development Manager



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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and each sample(s) are retained for 30 days only except perishable samples.

## Test Report

No. HKGFD1701038501

Date: 16 Jan 2018

Page 2 of 2

### Test Results :

Sample Description : Turmeric powder in vacuum bag

<u>Test Item(s)</u>	<u>RL</u>	<u>Test Results</u>
Curcumin	1	93400 mg/kg

RL = Reporting Limit

### Remark:

The analysis was performed in an oversea affiliate assessed as competent.

\*\*\* End of Report \*\*\*

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