



60 Capsules Bottle



Mangosteen Rind: Scientific Name: *Mangostana Gariciana*

Anti-Inflammatory - Xanthonenes (antioxidants) - Highly Nutritious - Boosts Immunity

Vitamin C - Regulates Blood Pressure and Boosts Heart Health



Mangosteen has long been used in Asia for its powerful anti-inflammatory properties.

There may be no other plant more widely used and studied in Asia that is so unfamiliar to the Western world.

Noted ethno biologist, Dr. James Duke has identified 210 distinct active ingredients found in mangosteen, each of which play a role in maintaining balance in the human body.

MANGOSTEEN RIND:

Among the fruit peels, mangosteen peel is an important source of natural phenolic antioxidants. The mangosteen peel contains various bioactive substances, i.e., phenolic acids and flavonoids, which possess biological and medicinal properties, especially antioxidant properties.

XANTHONES:

Mangosteen is a rich source of antioxidants and vitamins. The special antioxidant found in abundance that gives the fruit a superior edge, is a class of naturally occurring polyphenol compounds known as Xanthonenes. Mangosteen has two classes of Xanthonenes -alpha mangosteen and gamma mangosteen. The mangosteen fruit is said to contain at least 20 known Xanthonenes, majority of which are found in the fruit wall or pericarp of the fruit. Xanthonenes work to reduce oxidative stress caused by free radicals. By damaging the free radicals, these antioxidants protect the body from various diseases, ranging from common cold and flu, cancer risk and heart disorders.

Modern medical research supports the fact that the “alpha mangostin” and “gamma mangostin” xanthonenes found in mangosteen are among the most powerful and effective antioxidants found anywhere in nature. They are highly bio-available and help your body to fight oxidation and the evasive deleterious health effects caused by oxidative imbalance.

The protective nature of the antioxidants in mangosteen are somewhat unique. Their xanthone structure allows them to bind to the inside of cell membranes where they exert antioxidant activity protecting the structure and function of the cells. Recent studies (advanced proteomic evaluation) indicate that mangosteen xanthenes enhanced the protective benefits of cellular proteins.

BOOSTS IMMUNITY:

The Xanthenes coupled with vitamin C found in abundance in mangosteen work wonders for an enhanced and improved immunity system. While Xanthenes do their bit in fighting the free radicals, Vitamin C promotes the production and function of leukocytes or the white blood cells, which are majorly responsible for good immunity. The more the count, the more you are protected against infections.

ANTI-INFLAMMATORY:

Inflammation is a natural and healthy response by which our bodies isolate a problem. It's part of our natural defense system. However, if we experience inflammation from minor injuries that don't require an intense response, dampening the inflammatory process becomes an important therapeutic intervention.

Exposure to environmental toxins and the evasive consumption of processed foods and dependence on synthetic substances causes our natural defense systems to go on overload. Our bodies, unable to find and read natural markers in these synthetic substances, identify them as foreign invaders and defend against them. This can result in chronic inflammation with its many negative health consequences.

In S.E. Asia mangosteen rind has been used for centuries in response to inflammation of the intestine (dysentery), and diarrhea as well as other types of inflammation. Japanese scientists have demonstrated (using lab animals) that a mangosteen xanthone directly inhibits the cyclooxygenase enzyme, thus interrupting the chain of events leading to inflammation. Science is, once again, verifying and validating centuries of successful use and traditional wisdom. The anti-inflammatory properties of mangosteen have been compared in strength and effectiveness to potent anti-inflammatory prescription drugs. However, take a look at the long list of the drugs' possible adverse side effects compared to mangosteen which is without any known adverse side effects.

NUTRITION:

Imagine the benefits of consuming Flavonoids of Dark Chocolate, Catechins of Green Tea, Vitamin C of Oranges, Carotene of Carrots, Proanthocyanidins of Grape Seeds and Polysaccharides of Aloe Vera all at once, day after day. Mangosteen contains ALL these nutrients in substantial amounts. These and other essential nutrients help to protect and balance your body. Good nutrition is essential to good health, vitality and long life.

REGULATES BLOOD PRESSURE AND BOOSTS HEART HEALTH

Battling with hypertension? Here is some good news for you. The abundant quantities of potassium, copper, magnesium, and manganese containing in mangosteen can help regulate your blood pressure. Potassium especially weeds out the negative effect infused by excess intake of salt (sodium). It also promotes heart health by maintaining normal heart rate and keeping risk of coronary attacks at bay. Mangosteen also reduces the cholesterol levels in your body, thus further checking the blood pressure and the consequent heart ailments.

SOLUTION TO YOUR TUMMY PROBLEMS

Mangosteen is high on fibre, which makes it an effective aid to all your digestive problems. It can help ward off constipation. Consuming the pericarp and peel of the delicious fruit has been found effective in providing relief from diarrhoea and dysentery. The high fibre composition of the fruit also increases your prebiotics intake, which is good for your intestines.



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.

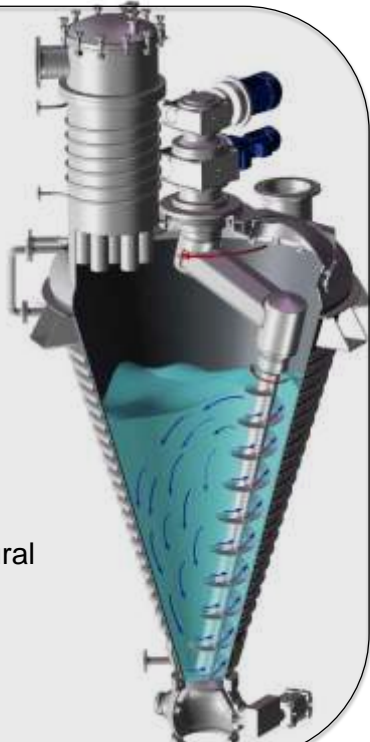
Image 1 – Traditional Vs Cellular Preservation Technology (CPT)

Traditional freeze drying



- multi-step process; bacteria and mould growth risk.
- static materials sitting on trays; 10-20% residual moisture
- product ground into a powder; product cell structure destroyed

Cellular Fracture Line technology



- 1-step process
- super frozen particles fly around in the product chamber
- no mechanical grinding.
- brittle material motion and sublimation of ice structure that hold it together causes product to break along natural elemental fracture lines.
- <0.1% residual moisture

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