

Revolutionizing Potency, Bioavailability & Delivery

Xanthone-Rich Nutrients From Mangosteen

(*Garcinia mangostana*)

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Abstract

Objective: This overview focuses on the previous insolubility of the mangosteen pericarp's xanthone-rich nutrients which leads to limited absorption in the body, and a recent 10xPURE™ scientific development that renders previously insoluble xanthenes soluble and more potent, when formulated, than any other mangosteen supplement ever brought to market.

Introduction: Xanthenes are a group of heterocyclic organic compounds that include α -mangostin, β -mangostin, and γ -mangostin, commonly found within the pericarp of the mangosteen plant *Garcinia mangostana*. All these compounds are practically insoluble in water and tend to remain associated with the pericarp. This limitation severely restricts the formulation of products that contain concentrations of these compounds high enough to be considered as having any significant degree of efficacy.

Materials and Methods: XanthoMyst™, unlike crude dried and liquid mangosteen pericarp-based products, is manufactured using a proprietary process that efficiently extracts and separates α -mangostin and other compounds directly from the pericarp as a botanical concentrate and then incorporates this mixture of molecules into a specially formulated protecting liposomal nanoemulsion that renders them water soluble, suitable for formulation, and ultimately significantly enhancing bioavailability.

Nanoemulsion: The bioavailability of nanoemulsion-stabilized α -mangostin, and other molecules present in XanthoMyst™, strongly depends on the droplet size. Optimizing and confirming liposomal particle size during product formulation has therefore been a key point of focus during the development of XanthoMyst™. ISO-17025 accredited, third-party laboratory testing using Dynamic Light Scattering based particle size analysis has confirmed that the XanthoMyst™ liposomal particle size distribution is well within the acceptable range required for truly effective nanoemulsions.

Stability: The stability of nanoemulsions is routinely determined by calculating the zeta potential, and nanoemulsions with high zeta potentials are considered physically stabilized, while those with low zeta potential values are prone to coagulation or flocculation. Zeta potential is measured using a Zetasizer Nano ZS (Malvern Panalytical) dynamic light scattering (DLS) instrument. Third-party laboratory testing done on the XanthoMyst™ formulation, following recommended ISO & ASTM methodology, has recorded a zeta potential value well within the highly stable nanoemulsion product range.

Conclusion: ISO-17025 accredited, third-party lab testing of XanthoMyst™ has confirmed the α -mangostin dosage potency as well as the 10xPURE™ nanoemulsion liposomal particle size distribution and stability, all three key indicators of product stability and enhanced bioavailability. Additionally, all the solvents and additives used to manufacture XanthoMyst™ are food-grade certified and generally regarded as safe (GRAS).

Data Availability: Because of the proprietary nature of the XanthoMyst™ technology and process, certain detail has currently been reserved for internal use only. 10xPURE™ is a proprietary technology and trademark of CTFO, Inc.

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure or prevent any disease. Individual weight loss results will vary.

TWIST & MYST

Introducing XanthoMyst™
Nanoemulsion Myst

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PROUD TO BE FIRST

THE SCIENCE & INNOVATION OF DISCOVERY

XanthoMyst™

NANO-EMULSION DROPLETS SO TINY THEY ARE ABSORBED THROUGH THE SOFT TISSUE OF YOUR MOUTH, SO THERE IS VERY LITTLE TO SWALLOW.

INTRODUCING

XanthoMyst™ Bio-Delivery Myst

From the moment you *Twist & Myst™* XanthoMyst™ into your mouth, you'll LOVE the way the tiny-nano bubbles adhere to the inside of your mouth. Next, our proprietary encapsulated, mangosteen *xanthone-rich* nanoemulsion 10xPURE™ technology, improves delivery and transfer of XanthoMyst™ directly into your body bypassing degrading of gastrointestinal enzymes in the stomach.

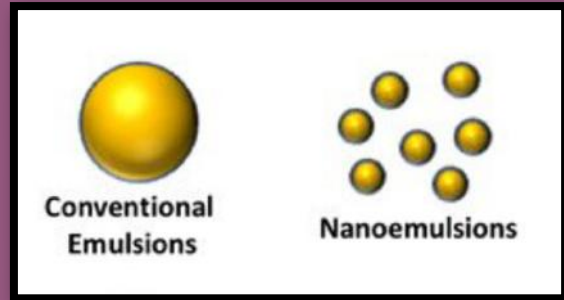
Nanoemulsions are nano-sized emulsions that support the targeted delivery of active ingredients.



10xPURE™ technology nanoemulsions are tiny droplets of one liquid suspended within another liquid. Picture the tiny droplets that form when you shake an oil-and-vinegar mixture except these droplets are micronized to carry mangosteen xanthones and nutrients throughout the body. You just *Twist & Myst™* XanthoMyst™ onto the soft tissue in the back of your mouth for delivery into your body.

NANOEMULSION BENEFITS:

- Enhanced Bioavailability
- Better General Wellbeing
- More Potent Delivery
- Better Absorption
- Faster Cellular Penetration
- Get More of What You Pay For



WHY IS THE PRODUCT CALLED XANTHOMYST™?

“Xantho” is derived from the many natural xanthenes including, α -mangostin being the most active, found in Mangosteen Pericarp (rind). Twist & Myst™ your daily serving of XanthoMyst™ into your mouth to efficiently deliver these compounds into your body for superior potency and bioavailability. These compelling benefits are beyond anything else we have seen related to mangosteen in the market to date.

MANGOSTEEN FRUIT:

- Mangosteen has been revered for centuries as “Asia’s Queen of Fruits” - this “SUPERFRUIT” is hailed around the world by millions of people for thousands of years for its superior health promoting properties.
- Interesting fact, as early as 600 AD, scribes recorded the use of mangosteen in the support and maintenance of good health.
- Over 200 xanthenes exist in nature
- 70+ xanthenes are in the mangosteen fruit, 40+ xanthenes are said to be located in the xanthone-rich Pericarp (rind) of the mangosteen fruit.
- Mangosteen contains phytonutrients like xanthenes and other group of compounds. Including anthocyanins, catechins, and flavonoids, all of which have their own list of studied therapeutic benefits.

There are more Xanthenes in the Pericarp (rind) of the Mangosteen than any other source on Earth.



MANGOSTEEN XANTHONE-RICH PERICARP BENEFITS

One of the Greatest Natural Health Discoveries of All Time

- Rich in Antioxidants
- Supports overall Health & Well-Being
- Supports a healthy Inflammatory Response
 - Inflammation is a key driver of heart disease (Silent Killer)
- Supports a healthy Immune System
- Provides healthy Blood Sugar support
- Adaptogenic in nature, meaning they strengthen the body's resilience to stress
- Rich in tannins, found to promote optimal Intestinal Health.

PROBLEM & SOLUTION

Until now, the lack of xanthone oral bioavailability has been said to limit the potent delivery and overall wellness associated with Mangosteen extracts. Our proprietary xanthone extraction, formulation and 10xPURE™ nanoemulsion based liposomal delivery technology are designed to help increase the absorption of poorly bioavailable ingredients.

Adapting technology, already widely used in pharmaceutical manufacturing, the team formulated a 10xPURE™ nanoemulsion based system that encapsulates the extracted natural xanthenes within liposomes designed to deliver more xanthone-rich active ingredients than previously thought possible. This proprietary technology supports bioactive Mangosteen derived xanthenes as promising candidates for general wellbeing.

10XPURE™ TECHNOLOGY RECAP:

- Extract *insoluble* **xanthone** compounds into a concentrate
- Integrate concentrate into extremely stable water *soluble* liposomal nanoemulsion
- Deliver liposomal nanoemulsion via oral mist for access by your body
- Small micronized liposomal particles more easily absorbed by your body

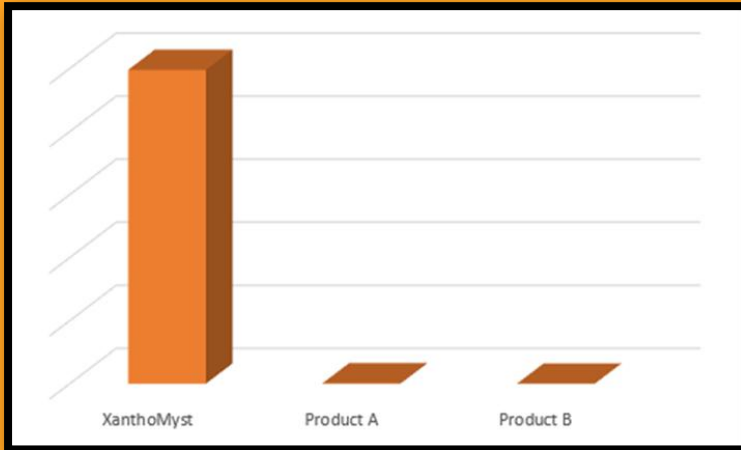
TWIST & MYST™

XanthoMyst™ oral mist with liposomal nanoemulsion forms tiny droplets that quickly adhere to the soft tissue and absorb more easily. Oral myst is a fast and effective delivery system to get your daily serving of mangosteen Xanthone-Rich nutritional ingredients.

TESTING RESULTS

Introducing Our Latest 10xPURE™ Breakthrough Discovery 2023

CTFO development team pushed scientific innovation to new heights to help you live your healthiest life. In third party potency testing, we compared XanthoMyst™ against a mangosteen xanthone-rich powered capsule product and a mangosteen juice product.



5,000 parts/mill. 7.5 parts/mill. 1.5 parts/mill.

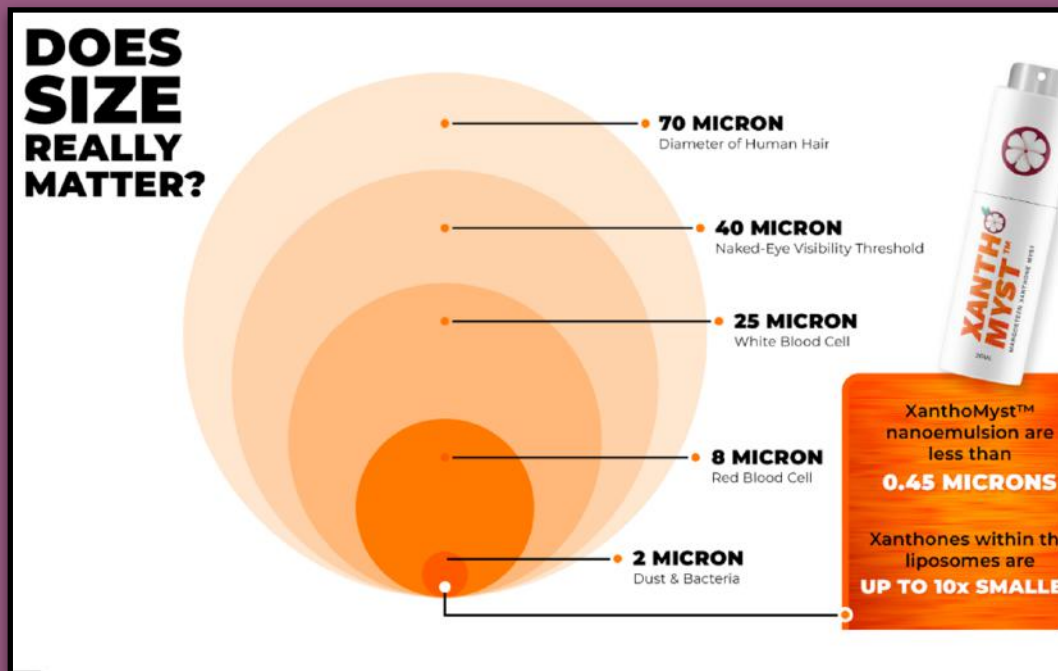
The amount of xanthones being delivered on a per-serving basis, is 5,000 parts per million for XanthoMyst™, 7.5 parts per million for Product A (capsule) and 1.5 parts per million for Product B (Mangosteen juice drink)

Millions of people have been experiencing amazing results with limited solubility products. Just imagine the possibilities if they “Twist & Myst™” XanthoMyst™ everyday onto the soft tissue in the back of the mouth for delivery into the body.

DOES SIZE REALLY MATTER?:

According to the 10xPURE™ development, ***the answer is YES!***

Keep in mind, generally the smallest size the human eye can see is about 40 microns or larger. Our nanoemulsion is as tiny as 0.45 microns or less and the liposomes that release the mangosteen xanthones and nutrients are up to ten times smaller.



LET'S PUT SIZE INTO PERSPECTIVE FOR YOU:

- The diameter of 1 strand of your hair is about 70 Microns
- Human Red Blood cells that travel thru your bloodstream are between 5-8 Microns
- **XanthoMyst™** liposomes are 0.45 Microns or less, supporting easier entry into your cells

IT'S NOT WHAT YOU BUY, IT'S WHAT GETS TO THE DESTINATION.

Now, it's your turn to Twist & Myst™.
Don't waste another minute. Experience the most potent and fastest delivery Mangosteen Xanthone-Rich supplement with the best bioavailability offered in the marketplace.

CAUTION:

If you have a reaction, stop immediately and consult with your physician. Do not consume if seal is broken.

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, or prevent any disease.