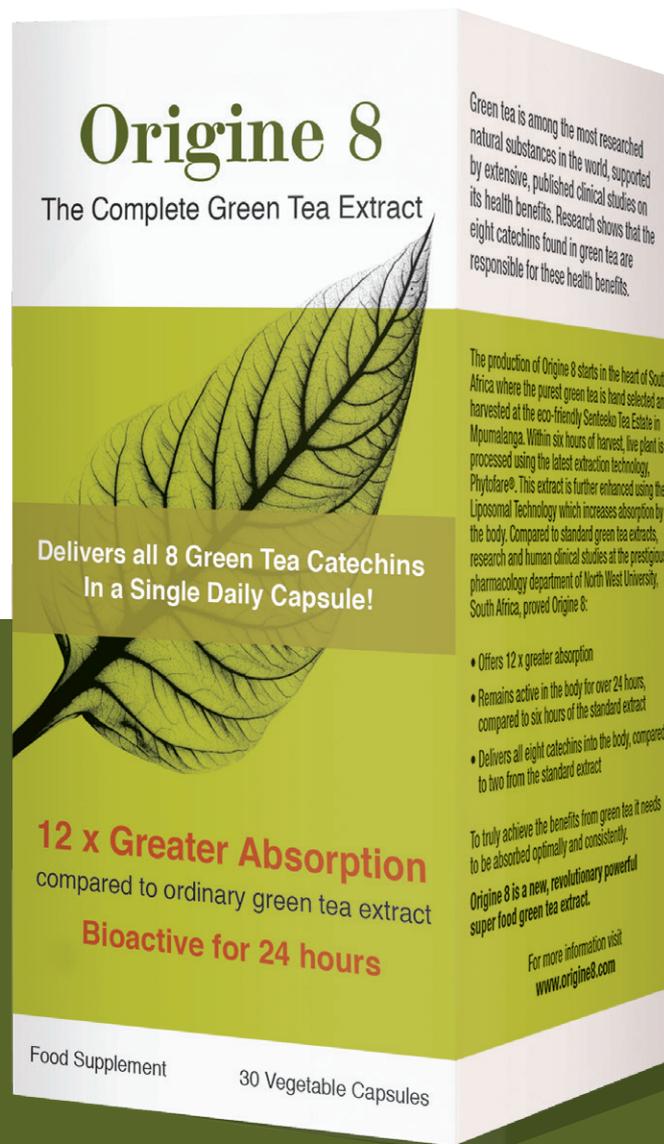


Origine 8™

The Complete Green Tea Extract



COYNE
HEALTHCARE



The major benefits of green tea stem from its rich supply of catechins, of which eight types are found in green tea.

The History of Green Tea

Camellia Sinensis, commonly known as green tea, is the oldest herbal tea known to humans. It was first brewed in China in 2737 BC. Today green tea is consumed around the world by millions of people who enjoy it for various health benefits. Accepted benefits include vitality, detoxification, mental focus as well as weight management. Green tea has a long history as a supportive aid in conditions such as cancer, diabetes and cardiovascular health. Thousands of clinical studies have been conducted and published investigating the various health benefits of green tea. Scientific research

has shown that green tea contains a number of bio-active compounds. The major benefits of green tea stem from its rich supply of catechins, of which eight types are found in green tea. Catechins are regarded as the most powerful of polyphenols providing brain and body with strong antioxidant protection. Catechins were first isolated from green tea in 1929 by Michiyo Tsujimura, a Japanese agricultural scientist and biochemist. Her research focused on the components of green tea and she was the first woman in Japan to receive a doctoral degree in agriculture.

Accepted benefits include vitality, detoxification, mental focus as well as weight management.

Below: Senteeko Tea Estate, White River, South Africa



The Effects of Catechins and Green Tea on Health

 <p>Detoxification</p>	 <p>Anti-inflammatory</p>	 <p>Cancer</p>
<p>Catechins are effective scavengers of reactive oxygen species and may also function indirectly as antioxidants through their effects on transcription factors and enzyme activities. Catechins support the body's major detox organ, the liver, improving liver function and reversing declines in antioxidant defences. Studies also indicate catechins have the ability to block the amount of fat stored in the liver which is of particular interest due to high levels of Non-alcoholic fatty liver disease (NAFLD).</p>	<p>Due to catechins' ability to target multiple anti-inflammatory signaling pathways, a single pathway cannot be assigned. The major catechin epigallocatechin gallate (EGCG) has been noted to decrease NF-kB activity, regarded as the master switch to inflammation.</p>	<p>As potential chemopreventive agents, catechins inhibit enzymes involved in cell replication and DNA synthesis, interfere with cell-to-cell contact adhesion, and inhibit various intracellular communication pathways required for cell division. Thousands of research studies have been published on green tea catechins and their effects on cancer.</p>

 <p>Neuroprotective</p>	 <p>Blood Sugar Control</p>	 <p>Cardiovascular</p>
<p>Catechins may alter brain aging processes and serve as possible neuroprotective agents in progressive neurodegenerative disorders such as Parkinson's and Alzheimer's disease.</p>	<p>Studies show that green tea can improve insulin sensitivity, decreasing fasting glucose levels as well as fasting insulin concentration.</p>	<p>Green tea has been shown to positively impact the major risk factors associated with cardiovascular disease, lowering LDL cholesterol and protecting LDL particles from oxidation. Observational studies indicate that people consuming green tea reduce their risk of cardiovascular disease by 31%.</p>

The many varied mechanisms of action of catechins increase their therapeutic potential in numerous clinical disorders. Beyond this the consumption of green tea is associated with overall greater health and vitality.



Consuming Green Tea

The traditional and widely accepted method of consuming green tea is brewing the leaves and consuming it as a drink. However, there are limitations to this method when wanting to obtain the maximum health benefits of green tea or when green tea is used as a supportive aid during the treatment of an illness.

- 1 The quality and level of catechins found in green tea varies from plant to plant. Drinking a tea with very low levels of catechins will be of little benefit, therefore standardisation is required.
- 2 Heavy metals have been found in a number of commercial brands grown near industrial areas. We need to question if the tea is free of agrochemicals and contaminants. This is especially important when a large quantity of tea is being consumed on a daily basis.
- 3 Frequency and volume of consumption. For sufficient benefit multiple cups of tea per day need to be consumed on a consistent, day to day basis. This is not easy from a compliance point of view.
- 4 Those sensitive to caffeine and the stimulating effect of green tea may find it impossible to consume the required volume of green tea on an ongoing basis.
- 5 Absorption of catechins from the green tea may not be optimal, especially in those with compromised digestive systems and overall health.

Green Tea Supplementation

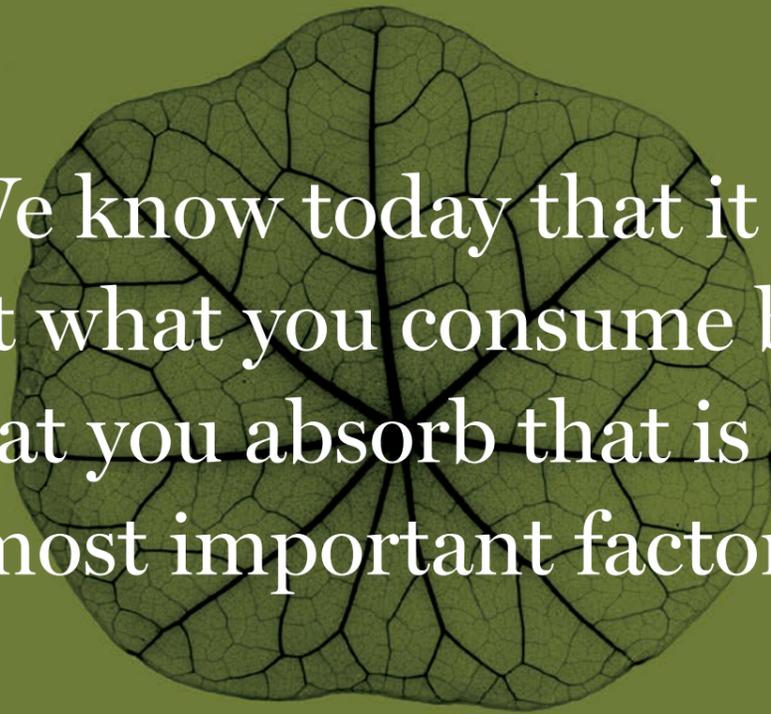
Once the benefits of green tea became known, the challenge of consuming adequate amounts of high quality green tea throughout the day emerged, giving rise to the development of supplements.

A quality supplement can offer the benefits of green tea conveniently.

Companies have focused on producing high concentration supplements which deliver a rich supply of catechins in a serving. Very little thought was given to bio-availability and absorption. We know today that it is not what you consume but what you absorb that is the most important factor. We need to then ensure that absorption is achieved in a safe and healthy manner.

THE CHALLENGE

A person may consume a desired therapeutic amount of a substance but if absorption is limited then the result itself is limited, and there is a greater potential for negative side effects such as gastrointestinal upset. Negative side effects lead to non-compliance and potentially discontinuation.



We know today that it is not what you consume but what you absorb that is the most important factor.

Origine 8

A group of scientists and medical experts working with the latest extraction and absorption technology with a keen interest in food and natural substances focused their energy on green tea.

Due to the vast health benefits green tea offers and their understanding that these benefits are limited by the quality of tea as well as absorption of regular supplementation, they sought to develop a new green tea extract which could overcome the current challenges.

After years of research, development and collaboration and combining the best of nature with science, the final result is Origine 8™ which is a true breakthrough in not only green tea supplementation but in health.



The two keys to Origine 8™

STEP 1

The highest quality green tea produced by Plandaí Biotechnologies is used. Within 6 hours of harvest this tea has already been processed into the first phase of Origine 8™. **Live plant matter is used in this patented extraction process, called Phytofare®.** The entire process from farming the plant, to harvest to extract happens at one location and is controlled internally assuring the highest standards and quality.

STEP 2

This high-quality extract is then further enhanced using an advanced Liposome technology developed and clinically validated to improve the delivery of nutritional substances. The advantages of this technology are that it further enhances the bio-availability and stability of Phytofare® and does so naturally, without the need for any synthetic material.

Origine 8™ is now the benchmark in green tea supplementation delivering a revolutionary extract and supplement for those seeking both health and vitality.



Phytofare® extract

Regular green tea extract

Clinical Evidence

A single centre, non-randomised, blind crossover study involving 26 participants was conducted by the PCDDP at the North-West University in South Africa. The purpose of the study was to assess the bio-availability of the green tea extract used in the production of Origine 8™ compared to a standard commercially available extract of green tea commonly found in green tea supplements.

Participants consumed 200mg twice per day of a standard green tea extract followed by a 14 day washout period and thereafter 200mg twice per day dose of the extract found in Origine 8™ was consumed. Blood samples were drawn over a 24 hour period post consumption to measure levels of catechin concentrations in the blood.

A compilation of the concentration-time curves (AUC) as determined by LC-MS-MS were possible for levels of epigallocatechin, epicatechin, epigallocatechin gallate, epicatechin gallate, catechin gallate, gallocatechin and total catechin in the plasma. This allowed for comparative statistical endpoints including time at maximum concentration (Tmax) and maximum concentration (Cmax) for plasma concentrations of individual and total catechins.

	Epigallocatechin	Gallocatechin Gallate	Epicatechin	Epicatechin Gallate	Gallocatechin	Epigallocatechin Gallate	Catechin	Catechin Gallate	
Catechin									Total
Origine 8™	1410	2129	476	566	594	6120	175	159	11630
Standard	84	87	37	33	52	612	20	4	930

Figure 1. Measured as Average ng/ml per participant

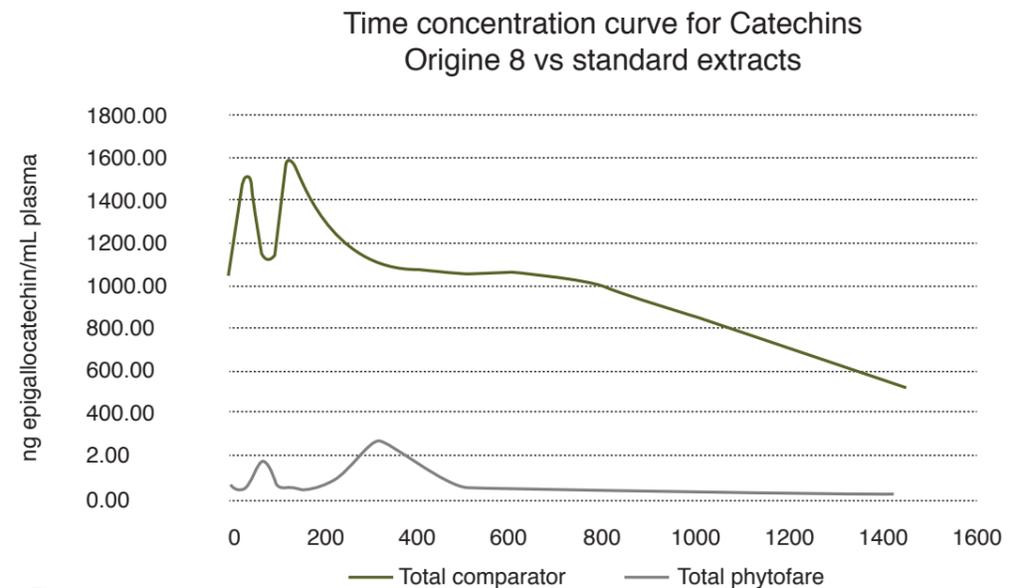


Figure 2.

The results drawn from the study revealed the following:

- 1 **Origine 8™ delivered an average concentration of catechins of 11 630 ng/ml compared to a concentration of 930 ng/ml delivered by the standard green tea extract.** A 12 fold greater average concentration was delivered by Origine 8™. Origine 8™ offered complete absorption of all 8 catechin found in green tea. With the exception of EGCG standard green tea extract provided insignificant levels of the other 7 catechin in comparison to Origine 8™ as demonstrated in figure 1.
- 2 **The average concentration of Epigallocatechin Gallate (EGCG) delivered by Origine 8™ was 6120 ng/ml compared to an average concentration of 612 ng/ml EGCG delivered by the standard green tea extract.** EGCG is regarded as a key catechin and Origine 8™ delivers a 10 fold greater total concentration.
- 3 **Origine 8™ resulted in a far greater half-life compared to the standard green tea extract.** Catechins delivered by Origine 8™ were still found to be present in the plasma after 24 hours whereas standard green tea was cleared from the body after only 6 hours. This means that Origine 8™ could be used as a once per day dose whilst standard green tea would require multiple doses of far greater size throughout the day to deliver the same levels of catechins achieved through a single dose of a far smaller size of Origine 8™.

Plandaí Biotechnology

Plandaí Biotechnology is the product of over twenty years of research in the field of plant extracts. The company has focused its research on the development of an extraction process, called Phytofare® which has the ability to significantly improve the bio-availability of its extracts. Their proprietary extraction technology takes live plant material and unzips the molecules, releasing the phytonutrients. Intestinal uptake (bioavailability) of generic green tea catechins is normally low, ranging from 1.68% in humans, similar in rats and to up to 13-26.5% in mice. This low intake in humans is partially due to the physical structure of catechin precursors which are produced in the trans isomer form, and the epicatechin –gallates which are produced in the cis isomer form. This is due to being a hydroxylated polyphenol which form a large hydration shell and are absorbed via passive diffusion between intestinal cells rather than via a transporter.

Phytofare® catechin complex absorption is further greatly enhanced through the Plandaí science delivering a synergistic complex of all eight catechins in mainly the cis isomer form which in the body naturally transports the catechins from the gut to the plasma. Plandaí's proprietary extraction technology takes live plant material and unzips the molecules, releasing the phytonutrients in an active, bioavailable and stable form. Demonstrated effective from human clinical trials and research.

Below: Plandaí Facility



Plandaí selected green tea as the first plant of choice in which to apply its technology. The resulting extract has been named Phytofare® Catechin Complex. The green tea used in the extract is grown on the Senteeko Tea Estate, which is a farm of over 8 500 acres in Mpumalanga, South Africa. Plandaí manages the entire process, from growing the tea to harvesting, to the final extract, all of which happens in one location. This ensures the highest level of quality control.

Beyond this, Plandaí is carbon friendly, utilising solar energy as well as fresh water supplied via a stream which runs into the farm with its source found in the local mountains. It also empowers the local community by providing over 300 jobs to residents from nearby villages.

Phytofare® Catechin Complex offers a breakthrough green tea extract both in quality and efficacy, demonstrated by clinical evidence and manufactured in a world class and one of a kind production facility. This is why it was the obvious choice for us when developing Origine 8™.

Below: Plandaí Extraction



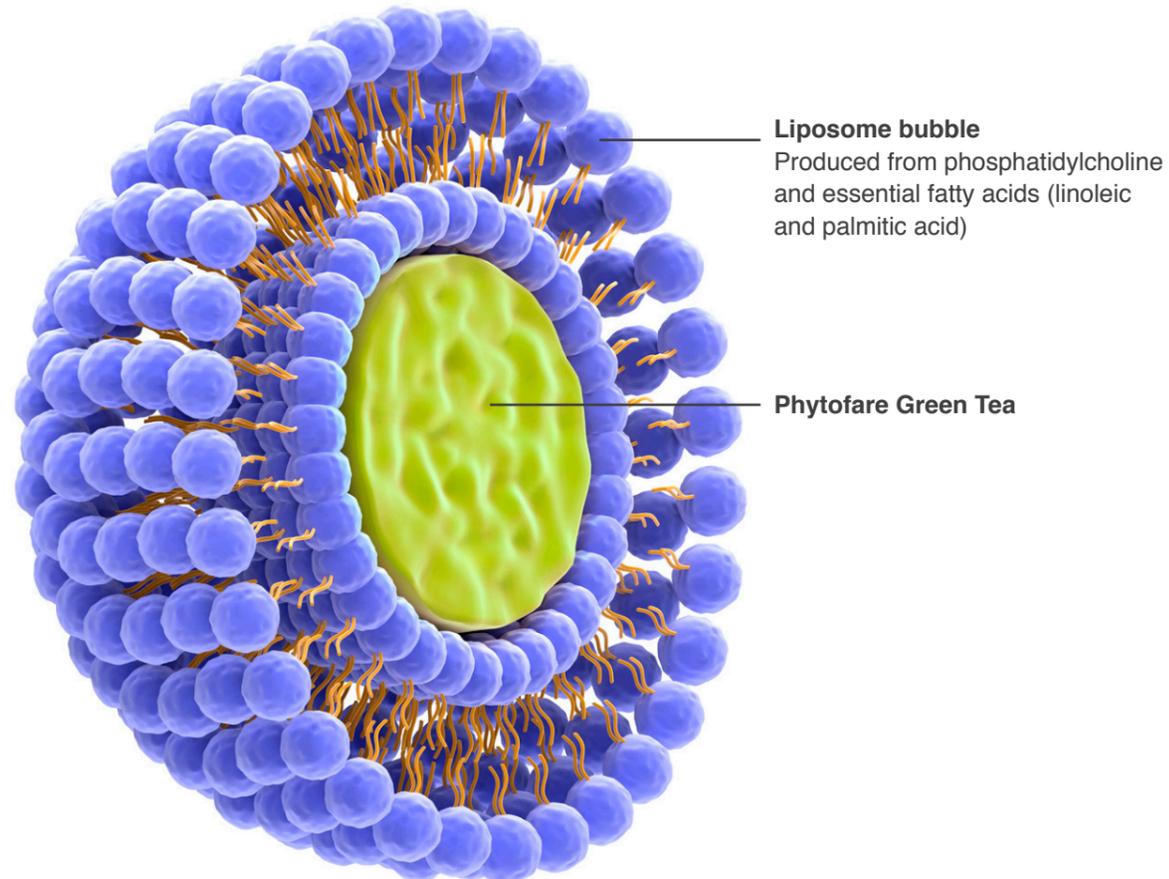
Liposome

An advanced bio-transporter

Liposomes are tiny nano-sized bubbles with an outer shell comprised of healthy lipids and a hollow aqueous center that can be filled with a variety of substances. We have long postulated that the outer layer of the Liposome protects a substance from gastric juices and liver enzymes; now, clinical studies are showing that Liposome support the absorption of nutrition and have excellent efficacy. Liposomes work by initially protecting the payload from the harsh acidic environment of the stomach. Once past the stomach, the payload is delivered where needed by absorption through one of the many mechanisms available to liposomes. This higher absorption of nutrition allows its full benefit to be realized. An added advantage of liposomes is increased circulation time of the payload, which allows for a longer active life and benefit.

Origine 8™ uses the only known GMP and registered Liposome manufacturing facility in the world. In the case of the liposome used in the production of Origine 8, phosphatidylcholine is used and extracted from Non-GMO Sunflower, the liposome itself has the added benefit of becoming nutrition for the liver, brain, mitochondria, eyes, and most essential cells in the human body.

Below: Origine 8™



Through human clinical studies Liposome has demonstrated:

Improved bioavailability of entrapped molecules

Increased uptake of molecules from gastro-intestinal tract

Protection of labile molecules from degradation and early metabolism

Improvement of distribution and circulatory half-life of molecules in the body

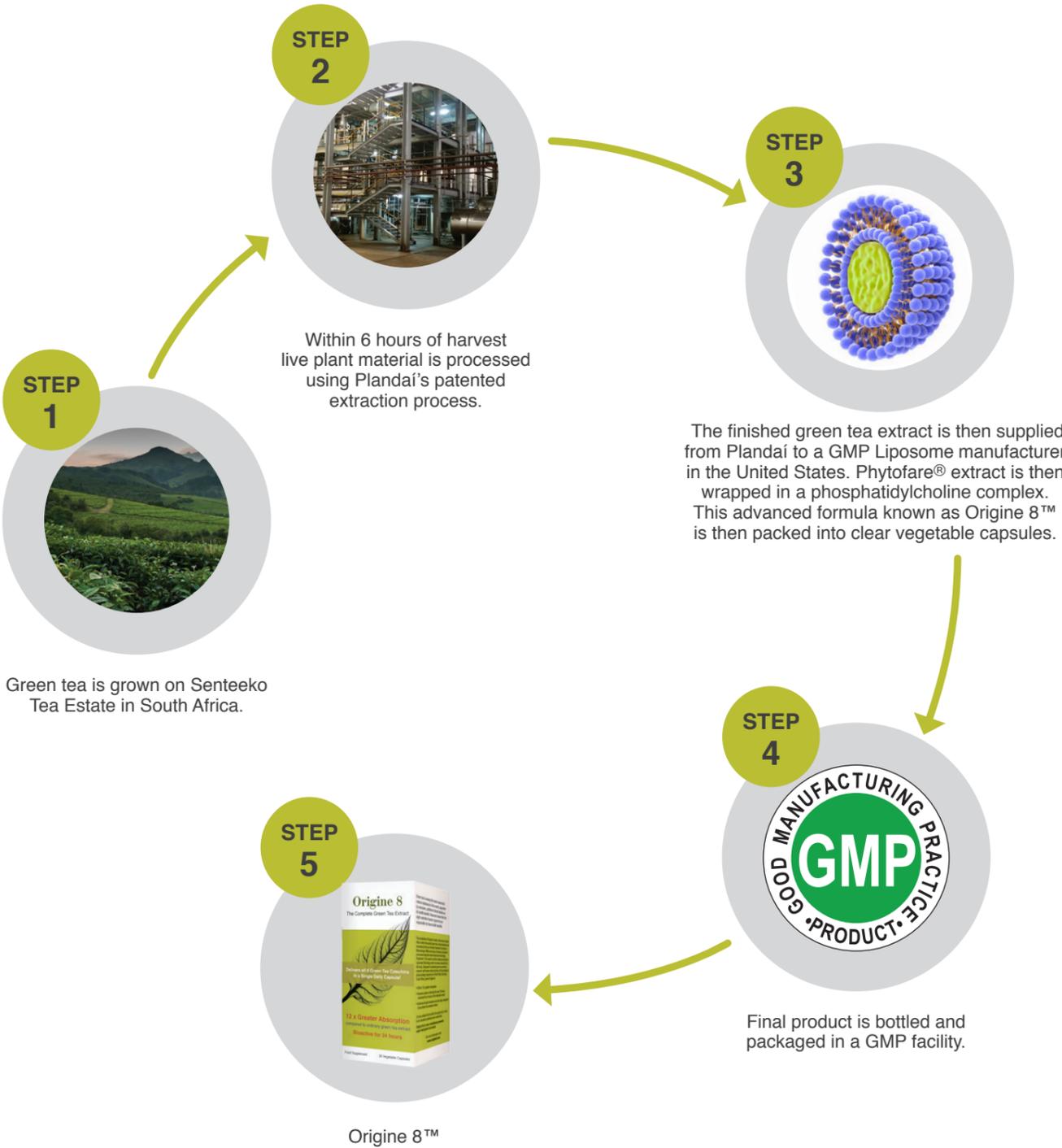
Over and above the improved bioavailability and efficacy, Liposome technology offers additional benefits.

Liposome consists of biomaterial that is generally regarded as safe; no synthetic compounds are used in the production of Liposome

Liposome uses no sugar, gluten, artificial additives and is GMO free

The manufacturing process is environmentally-friendly, using no harsh chemicals nor does it contaminate water

The production cycle of Origine 8™



Origine 8™ is a true breakthrough in not only green tea supplementation but in health.

Origine 8™

Origine 8™ is a first of its kind green tea supplement based on a patented extract which when compared to regular green tea extracts, provides a 12 times greater absorption, sustains in the body for up to 24 hours vs 6 hours and for the first time offers a complete absorption of all eight of green tea's catechins. This has been verified through human clinical studies conducted at the prestigious department of pharmacology at the university of North West in South Africa. All of this in the convenience of a single capsule per day. The first and only green tea extract to offer complete catechin absorption.

Revolutionary eco-friendly green tea extract of highest potency and purity.

A Complete Green Tea Extract

**12X
GREATER
ABSORPTION**

THAN REGULAR
GREEN TEA EXTRACTS



Produced from
Live Green Tea

EXTRACT PRODUCED WITHIN
6 HOURS OF HARVEST.
ENTIRE PROCESS HAPPENS
IN ONE LOCATION.



CLINICALLY
TESTED



1 Origine 8™
Capsule Delivers

150mg
Phytofare®

+

100mg
Liposome®

Phosphatidylcholine
Complex

**1/day
dose**

Other green teas flush
out after 6hrs. Origine 8™
lasts for over 24hrs.



Phytophare®:

Green tea extraction process

PATENTED
EXTRACT INNOVATION

Instructions for use

Consume 1 capsule in the morning. It is suggested whilst using Origine 8™ that one increases water intake. Do not consume more than 1 capsule in a 24 hour period.

Contraindications

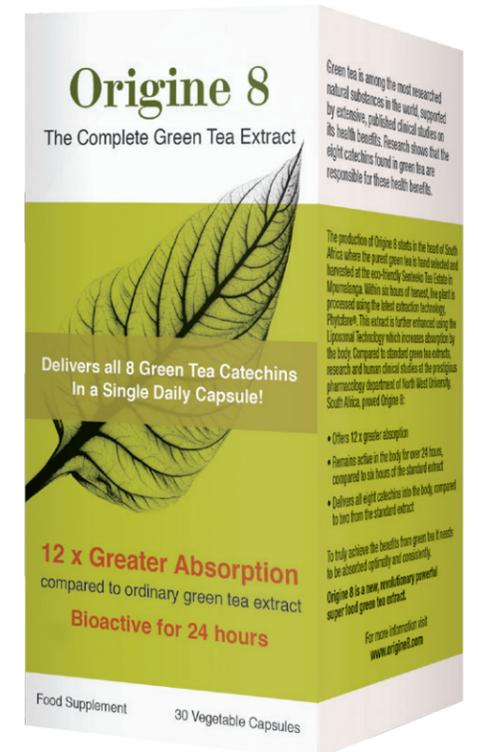
Pregnancy and breastfeeding. Bleeding disorders and those using anti-coagulation medication such as Warfarin. A potential detoxification effect may be experienced which will vary from person to person. This will be a temporary process, which may last a few hours from first taking Origine 8™ up to several days. Whilst this may cause discomfort, it must be noted that it is in fact a positive and necessary process. Origine 8™ contains only 11mg of caffeine per capsule, but this low level may still be stimulatory to those sensitive to caffeine.

Appearance

30 clear vegetable capsules containing green powdered like extract packed in glass jar.

Storage

Use within 90 days of opening. Store in cool, dry environment and avoid exposure to light.



Revolutionary green tea extract of highest potency and purity.
Eco-friendly. Potent. Pure. There is no other!

www.origine8.com



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