



Complete Product Overview

#103,104 OPC-2000 (Oligo Proanthocyanidin)

Nature's Most Powerful Free-Radical Fighter!

**Miraculously Helps Prevent & Improve
Virtually Every Health Problem!
USERS CLAIM THIS MIRACLE NUTRIENT:**

*Relieves Pain - Reduces Swelling - Calms Inflammation -
Soothes Irritation - Takes Away Stiffness - Increases
Energy - Returns Sexual Potency - Eliminates Long
Standing Illness - Restores Youthfulness - Retards Aging
Dramatically - Strengthens Capillaries and Much, Much
More!!!*

MIRACLES IN A BOTTLE!

To individual who has been fighting their health problems for years without much success, the results of OPC does seem like a miracle!

What would you call it if you were a young person crippled with the sore, swollen joints of **arthritis** and unable to walk, run or climb for years? All the drugs had failed to help, then suddenly, after only a few days on this remarkable nutrient, the swelling, soreness and stiffness go away. At last you can walk, climb stairs and live a normal life! Would you call that a miracle?

What if you were **just plain old**? In spite of all doctors did for you, you were weak, confused and dizzy. You could not walk without assistance or you fell down. Then suddenly, after just a few days of taking this special nutrient, the dizziness went away, you could think clearly, you had new strength, and energy! You could once again walk, climb stairs and drive a car alone and unaided. Would you call it a miracle? I suspect you would!

MOST EXCITING NUTRIENT IN DECADES!

The two stories I just shared with you are not fiction, they are real life experiences which I have on file in my office. What is even more important is that they are not rare exceptions. There are so many cases of dramatic improvement in very difficult and long standing health problems, often in a matter of days or at the most, weeks, that I call Proanthodine the most exciting nutrient released to the public in decades!

NUTRITIONAL SCIENCE-NOT MIRACLES!

The dramatic results being seen by users of OPC is actually the result of some very sophisticated nutritional biochemistry at work. It is important that you understand this. These dramatic results are not just luck, not something that people just imagine are happening. ***They are the result of what may very well turn out to be the most important and exciting discovery in modern science.*** In the following pages I want to share that thrilling discovery with you!

BEAT THE DEATH RAY

From Buck Rogers to Star Wars, adventure fans have watched the dreaded ray gun drop mighty warriors in their tracks. It was fun, because we all knew it was just fiction. Well, at least we thought it was. ***What almost no one knew, until just recently, was that each of us actually has millions of deadly ray guns, blasting away inside our body. They make us sick and old, and eventually they kill us! These ray guns are called free radicals, and we all have them.***

WHERE THE FREE RADICAL COMES FROM

Scientists have known for quite some time that when biochemical processes take place, partial molecules are left over carrying an electrical charge. They called them free radicals. These partial molecules carrying an electrical charge are found in our food (especially processed food), our water (to which chemicals and pollutants have been added), most drugs, and even the air we breathe (especially smoke and smog). However, ***the largest numbers of free radicals are manufactured right in our body as a by-product of our own metabolism.***

HOW FREE RADICALS DESTROY US

When free radicals come in contact with another substance, they release their electrical charge, sort of like when you walk across a carpet picking up an extra electrical charge and then releasing it when you touch a door knob or light switch. You get a shock when that happens. The same thing happens on a very minute scale inside your cells whenever free radicals are released inside your body. **Scientists didn't know for a long time that the electrical shocks from these free radicals were actually destroying structures within your cells.**

DARTH VADER - THE FREE RADICAL

If these free radicals are not controlled, eventually our cells are damaged or even destroyed. If it is only a moderate amount of damage, the cell function will be impaired. If it is a larger amount of damage, the cell will not be able to function at all. **A major amount of free radical damage will totally destroy the cell. If this free radical destruction is extremely intense, or it goes on unchecked for an extended period of time, so many cells are damaged or destroyed, that eventually the tissues that make up our body fail to function properly. Scientists now know that this is the leading cause of most illness, premature aging and even death itself.** The type of illness that develops depends upon which tissues suffer the most free radical damage. If it is the joints it will be arthritis, if it is the pancreas it will be sugar diabetes and so forth. Free radicals are our own private Darth Vader's from Star Wars, blasting us to death with a powerful ray gun.

THE BODY'S OWN FREE RADICAL FIGHTERS

Dr. Denham Harmon of the University of Nebraska, School of Medicine, was the first to discover that **these free radicals were the primary cause of most of our illnesses, aging and ultimately, death itself.** Researchers soon found that animal bodies produced special enzymes to neutralize these free radicals. In fact they found one of these enzymes, super oxide dismutase (SOD) was so important that it determined the length of animal life. Animals which produced very little of it, such as the mouse, had a very short life span. The more

SOD enzyme an animal produced, the longer was its life span. Man produced more than any other animal and has the longest potential life span. The National Enquirer hailed SOD as the fountain of youth. Then scientists discovered that SOD was destroyed in the stomach and intestines, and the hope of a pill to keep us young has vanished.

FREE RADICAL FIGHTERS YOU CAN SWALLOW!

Dr. Harmon's most important discovery was that certain nutrients could extinguish these deadly free radicals before they could do great harm, just as effectively as the body's own enzymes. He found that Vitamin E and selenium, especially when used together, are excellent free radical extinguishers in the fats and oils of the body. Vitamin A and beta carotene were excellent free radical neutralizers, especially in the mucous membranes of the body. In all the water soluble tissues, which is over 90% of the body, Vitamin C was far and away the number one free radical fighter. (This is one of the big reasons Dr. Linus Pauling has used so much vitamin C, and like the Energizer Bunny, he was still going strong at 93!)

OXYGEN-THE MOST POWERFUL FREE RADICAL

As you know, we live in an atmosphere that is rich in oxygen. **What you may not have known is that oxygen can quickly turn into a very potent and dangerous free radical called super oxide.** Every time you see rust on a piece of iron, you are looking at the work of super oxide free radicals. Super oxide radicals work fast. When you cut a banana or an apple, and it turns brown after a few minutes, you are looking at super oxide free radicals at work. That brown color tells you free radical oxygen has already destroyed much of the nutrition in that food.

PLANTS PROVIDE FREE RADICAL PROTECTORS

Plants not only live in an oxygen rich atmosphere, they actually manufacture oxygen, exhaling it from their leaves. To protect themselves from the super oxide free radicals, they have had to develop their own biochemical

neutralizers. **The outer bark, stems, leaves, and especially the fruit and seed are rich in these plant free radical protectors!**

BIOFLAVONOIDS - PLANT PROTECTORS

When Dr. Albert Szent-Györgyi first extracted vitamin C from citrus fruit, he found it would very effectively strengthen the fine capillaries of the human body. Yet when he created pure vitamin C in the laboratory, it would not protect the capillaries from breaking down. In his extensive examination of the citrus fruit extract, he discovered there was another substance in addition to the vitamin C. **A substance that would strengthen the capillaries.** At first he called this substance citrin, then he called it vitamin P. Finally, it was found that it was not a vitamin at all, and it ended up being called citrus bioflavonoid. **Bioflavonoids have a dual role in the plant, to strength its cells and fibers, and to protect it from oxygen free radicals, those same benefits are passed on to the animals who eat them.**

A WHOLE NEW CLASS OF PLANT CHEMICALS!

It didn't take scientists long to start searching the plant kingdom for more bioflavonoids. So far, over 20,000 different bioflavonoids have been identified and registered, and it is suspected that as many as 20 million different kinds may exist. Some type of bioflavonoid is found in every plant. The white portion of the rind of citrus fruit is loaded with over 26 different kinds of bioflavonoids and it is especially rich in one known as hesperidin. Rutin is one that is found in buckwheat. A relative of rutin is called quercetin and it is what causes the leaves of oak trees to turn gold in the fall. **All of these compounds are called bioflavonoids, and all strengthen fibers and protect against super oxide free radicals in both plants and animals.**

A 400 YEAR OLD EVENT INSPIRES A SCIENTIST

French scientist, Dr. Jack Masquelier, a specialist in bioflavonoids learned of an amazing historical event while visiting Canada in the late 1940's. It seems that in

December of 1534, French explorer Jacque Cartier had his ship with 110 men become frozen in the waters of the Gulf of St. Lawrence. Without fresh food the men began to get sick and soon 25 were dead. At the time it was not known that it was scurvy, resulting from a lack of vitamin C. **A Quebec Indian told the explorers to make a tea from the bark and needles of the native Anneda pine tree. As the explorers drank the tea, they made a complete recovery.** When Professor Masquelier heard this story, he already knew that pine needles contained vitamin C, but he wondered if the bark contained something the needles did not.

A NEW SUBCLASS OF BIOFLAVONOIDS IS FOUND

Upon returning to France Dr. Masquelier began to examine the bark of the pine tree, and just as he suspected, it was rich in a revolutionary new type of bioflavonoid. In fact, its chemical structure was so different, Masquelier eventually came to be credited with having discovered a whole new subclass of bioflavonoids called flavanes. **The exciting thing about these flavanes is that they are many times more powerful in strengthening capillaries and many times more effective as a free radical neutralizer than anything previously discovered!**

THE SIMPLEST FLAVANES

As Dr. Masqueliers probed the biochemical secrets of the flavanes he found they had a basic molecular structure, which is known as catechin. Catechin also has a mirror image twin, which is known as epicatechin. Both of these are found in green tea, and are what accounts for the many benefits claimed for this beverage. Because the flavane molecule contains several phenol groups, they are often called polyphenols.

THE MOST COMPLEX FLAVANES

The simple polyphenol molecules of catechin and epicatechin found in green tea were not new to scientists, they had known of them for years. In fact, scientists had known of an extremely complex flavane molecule for thousands of years. It is known chemically as polymer, meaning many basic parts joined together. In this case,

catechin and epicatechin. It is called tannin, and it is found in the bark, leaves, skin and hulls of many nuts and seeds. Unfortunately, its great size makes it a very poor protector against free radicals, although it is superb in making strong fibers. That is why it has been used for thousands of years to tan animal hides into durable leather.

FINDING POWER IN A FEW

Masquelier's great contribution to the world of science was the discovery of unknown flavane molecules in the mid range between the simplicity of catechin and the complexity of tannin. He found that in some plants, such as in the bark of the pine tree, both catechin and epicatechin had the ability to link together, either with themselves or each other to form medium sized molecules. **The most exciting thing about discovering these medium sized molecules was that the free radical protecting factor increased greatly as 2, 3 or 4 of the basic molecules joined together.** These medium sized molecules are known chemically as being oligomeres. Oligo means "a few" and mere means "parts."

NEW WORDS ARE BORN

To identify this new group of molecules Dr. Masquelier decided to name them after the ability of the basic catechin and epicatechin molecules to join together forming oligomeres. He chose the word "pycnogenol" which means "to condense into one." However, scientists outside of France, following Masqueliers lead, had discovered these same oligomere flavanes in blue and red flowers and fruits. So they chose to call these molecules pro- "to form," antho- "flowers or fruits," cyan- "of blue." Thus, many scientists called these same molecules "proanthocyanidins." Some even went so far as to call them "oligomere proanthocyanidins."

FROM PLANT TO NUTRITIONAL SUPPLEMENT

Dr. Masquelier soon realized his discovery could be of enormous benefit to the health of the human family, so he set about developing a process to extract these flavanes efficiently. His first efforts were on pine bark

and the red skins shed from the peanut. He was very successful and soon had patents on the process in all the major nations of the world. A financial backer, Charles Haimoff, received half the rights to the patents. Exercising his patent rights, Haimoff soon began marketing flavanes from pine bark. He then trademarked the name of Pycnogenol and began marketing the flavan product world wide under that name. There is a strange irony to this last development. Dr. Masquelier, who developed the name Pycnogenol, can no longer use the name, except in France.

MASQUELIER CHANGES THE NAME TO OPC

Once it became clear that the name Pycnogenol had been turned into a product name, Masquelier realized it was no longer suitable as a generic term in the scientific world. So accepting the name already given his discovery by other scientists, Dr. Masquelier chose to call these medium sized flavan molecules Oligo Proantho Cyanidin or OPC for short.

GRAPE SEEDS BETTER THAN PINE BARK

As a scientist Dr. Masquelier continued to search for ever richer sources of OPC. Eventually he found the grape seeds left over after grapes had been juiced, were an even richer source of OPC than was pine bark. Pine bark yielded only 85% OPC while the grape seeds yielded 93% OPC! In addition, there was a better profile of the most active sized molecules (oligomeres) in the OPC extracted from grape seeds versus that from the pine bark.

BIOAVAILABILITY OF GRAPE SEED OPC VERIFIED

Because the pine trees are so large and it takes years to produce the bark, they do not lend themselves to test for the bioavailability of their OPC, therefore in spite of stories to the contrary, it has never been done. On the other hand Dr. Masquelier found grape seeds ideal for testing. He did this by enclosing a grape vine in a tent for 45 days. Then he injected into the tent, carbon dioxide (CO₂) which had been radiocarbon tagged. As part of the life cycle of the plant, this CO₂ was taken up by the

leaves and incorporated into the carbon content of the plant, including the seeds of the grapes. When the grapes were harvested and the OPC was extracted from the seeds, it was radiocarbon tagged. Then this OPC was fed to laboratory mice, their body was exposed to radiographic plates. Immediately the radioactive OPC signaled its location in the body of the mouse.

GRAPE OPC FOUND THROUGHOUT THE BODY

The grape OPC was found to have been distributed all through the body of the mouse. Within 10 minutes it was in the blood. The level declined slowly, leaving 1/3 of the OPC still in the blood seven hours later. Meanwhile, in order of the least to the highest, the OPC had been taken up by the muscles, heart, plasma, lungs, adrenal glands, spleen, kidneys, bronchial tubes, liver, small intestines and with the aorta retaining the largest amount. OPC had the highest affinity for the connective tissues.

ANTIOXIDANT POWERS PROVEN AND PATENTED

Next the Nitro-Blue-Tetrazolium (NBT) test was done by Dr. Masquelier. By using enzymes that produced super oxide free radicals in an organic mixture, the NBT turns blue. However, when a free radical neutralizer is added, it prevents this from happening. **The use of OPC from grape seeds was superior to all other antioxidants, 50 times greater than vitamin E and 20 times greater than vitamin C. Dr. Masquelier stated, "The tests showed that in this respect, OPC from grape pits has an advantage over OPC from pine bark."** On the basis of this and other experiments, Dr. Masquelier was granted U.S. Patent 4,698,360 for the free radical scavenging effects of OPC.

CLINICAL STUDIES PROVE EFFECTIVENESS OF OPC

In this limited space I can only touch on a few of the clinical studies which have been done. Several studies have shown dramatic improvement in strengthening veins and capillaries, including those with diabetes, cirrhosis, and the elderly. Varicose veins, retinopathy, night

blindness, and cataracts have all shown exceptional improvement. Edema following injuries and surgery, PMS, even severe cases of arthritis have responded dramatically. Free radical damage is indicated as a major factor in: ***Aging - Alzheimer's - Arthritis - Atherosclerosis - Bleeding Gums - Bruises - Cancer - Cataracts - Cold Feet & Hands - Diabetes Type II - Dry Skin - Edema - Fatigue - Heart Attacks - Hemorrhoids - Inflamed Tissues - Jet Lag - Kidney Damage - Liver Damage - Male Impotency - Menstrual Disorder - Phlebitis - Poor Circulation - Retinopathy - Rheumatism - Senility - Strokes - Stress Damage - Swollen Joints - Wrinkles.***

OPC 2000 with Free Unbound Resveratrol! OPC 2000 with Free Unbound Resveratrol!

THE BEST OPC ON THE MARKET !

OPC 2000 with Resveratrol is the best OPC you can buy. Every capsule of OPC 2000 gives you 50 mg of highly potent OPC from grape seeds and 23 mcg of natural Resveratrol!

HEART ATTACKS, STROKES AND CANCER

Did you know that these three deadly diseases account for well over 85% of all death by disease every year? Do you realize that these three deadly diseases are the #1 killer in the United States?

Currently there is no drug or medicine that will prevent or cure these diseases and many medical scientists have come to the conclusion that the only reasonable solution to these diseases is to prevent them.

A DIET LOW IN FAT AND HIGH IN CARBOHYDRATES ?

We have all heard time and time again that we must greatly reduce our intake of animal fats and cholesterol from sources like eggs, meat, butter and dairy products. Why has there been so much publicity regarding this theory?

After examining the human diet for the past 30 years, scientists began to notice that the death rates from these

three deadly diseases was the highest among the populations of the world that consumed the highest amount of animal fats per capita. These scientists also noted that there is a biochemical pathway known as the *cyclo-oxygenase* pathway that actually transformed animal fats (arachadonic acid) into leukotrienes and thromboxane A-2.

Both of these blood chemicals are highly inflammatory to the blood vessel linings and can lead to the development of plaque (heart disease) as well as promote the clumping of blood platelets that lead to blood clots. Inflammation of the blood vessels led to heart attacks, while clumping of the blood platelets led to strokes.

The natural conclusion was that the increase in fatty acid intake must be what led to the formation of these deadly blood chemicals, which further led to heart attacks and strokes. The answer seemed obvious, limit or eliminate all animal fats for your diet and you will greatly reduce your risk of heart disease. That is why you hear that advice so often. While many Americans followed that advice, the rate of obesity, heart attack, strokes and cancer continued to increase!

THE FRENCH PARADOX

Scientists soon discovered that the French people ignored their advice and continued to consume large amounts of animal fats and very little carbohydrates, yet their rate of the three deadly diseases was remarkably low. It just didn't make any sense. Rather than admit the advice was wrong, these scientists labeled it "*The French Paradox*."

THE DISCOVERY OF RESVERATROL

After further examination of the diets of the French people, scientists noticed that the French people not only ignored their advice, but they also consumed large amounts of red wine. After examining the wine more closely, scientists recently discovered an ingredient in the wine that seemed to have amazing health benefits. They called this ingredient - Resveratrol.

The only problem with getting effective doses of Resveratrol from red wine is that you have to consume

large amounts of wine. Scientists then discovered that Resveratrol was also found in grapes.

USING THE CYCLOOXYGENASE PATHWAY TO YOUR BENEFIT

After all the research was completed, it was discovered that Resveratrol worked its amazing health wonders by increasing the production of beneficial biochemicals while reducing the production of the inflammatory chemicals. This cyclooxygenase pathway works both ways, it can produce the beneficial chemicals or the deadly chemicals. Resveratrol stimulates the production of beneficial biochemicals.

A LITTLE GOES A LONG, LONG WAY!

Fortunately we know that it takes as little as 30 to 60 mcg of Resveratrol in the blood stream to accomplish this important health benefit. Every capsule of OPC 2000 gives you 23 mcg of Resveratrol. This means that with the Vitality Labs OPC 2000, you are getting better than clinically effective doses of OPC and Resveratrol!

PROTECTION FROM HEART ATTACKS, STROKES AND CANCER TOO!

According to the National Institutes of Health, Resveratrol is the most effective plant based biochemical for the protection of cells and tissues against their transformation into cancer! Cancer is not a disease that just occurs overnight. It can take 10 to 20 years to develop cancer and it develops in 3 stages.

Stage 1- Trigger Stage. This is when a carcinogenic substance alters the cell and starts an abnormal reproduction cycle. At this early stage, your immune system if healthy, will attack and destroy these abnormal cancer cells. Almost everyone will go through this stage many times through out their life and never realize it.

Stage 2- Promotion Stage. This is when your immune system is not able to destroy all the cancerous cells and they are being fed and nourished, thus reproducing rapidly.

Stage 3. Growth Stage. This is when the number of cancerous cells are huge, expanding rapidly while impairing the function of the body.

Each of these stages can last for several years and in many cases the cancer can be controlled and even reversed any where along the way. If the cancer has reached stage 3 however, it is much more difficult to arrest.

In animal experiments, researchers found that Resveratrol was effective at halting the development of cancer in all three stages of development. These researchers gave laboratory mice a potent cancer causing chemical and the mice developed an average of three mammary tumors each.

When the researchers gave mice this powerful cancer causing chemical and Resveratrol, there was a shocking 98% reduction in tumor formation. Research also indicated that the success of the Resveratrol was dose dependant meaning that the more Resveratrol the mice received, the greater was the result rate, all the way up to 98%!

INGREDIENTS

Each capsule of OPC 2000 with Resveratrol contains the following nutrient values:

- OPC50 mg.
- Resveratrol.....23 mcg.

Suggested Use:

The Institute offers the following suggestion in the use of this product. As a daily maintenance dose, 1 capsule for every 50 pounds of body weight daily. For those suffering from specific ailment, we suggest 3 capsules for every 50 pounds of body weight on a daily basis or as directed by your physician.

- MVP Vitality Labs Product Code
- #103 OPC 2000 (60 capsules)
- #104 OPC 2000 (180 capsules)

DISCLAIMERS

The material contained in this publication has been carefully researched and is believed to be reliable and accurate. However, it is not presented as medical advice. It is offered only as educational information. The reader is advised to obtain the services of a qualified physician if the need for medical treatment is indicated.

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