

# SCIENTIFIC MEDICAL DEVICES, Inc.

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Ellagitannins have been reported to be one of the most exciting new discoveries for cancer illnesses and for prevention of cancer development. The ellagitannins are naturally contained in the highest levels in the Meeker variety of raspberry. The following article, "Berry Good Health" written by Doctor Susan Thorpe-Vargas, explains what cancer is and how ellagitannins can have an effect on this disease.

Dr. Vargas has written more than 70 feature articles in leading magazines dealing with pesticides, genetics, nutrition, vaccines, therapies, preservatives, arthritis, nutraceuticals, and poisoning. These articles have been reprinted nationally and internationally and have been translated into at least three languages. Dr. Vargas has a PhD in immunology from Oregon Health Sciences and a Masters of Science in Biochemistry from Washington State University.

## Berry Good Health

By

Susan Thorpe-Vargas Ph.D.

Multiple studies have discovered that phytonutrients found in raspberries can protect us from cancer and can even shrink some types of cancer tumors. These substances can also act as an antibacterial and as an antiviral agent. Does this sound too good to be true? One particular substance found in this natural "medicine chest", is a series of compounds called ellagitannins. The highest levels are found in raspberries, but the ellagitannins are also in certain types of grapes, strawberries, blackberries, blueberries and some nuts too. Recent work (2001), published by Dr. Gary Stoner at Ohio State University, showed that components in the seeds and berry, but particularly ellagitannins, inhibited the initiation and promotion/progression stages of esophageal cancer. This is an extremely important finding, considering the potential benefits. In addition, edible berries, including raspberries also inhibit angiogenesis. This is a term used to describe the development of blood vessels needed for tumor growth.

We do not as yet know all of the functions of the ellagitannins in terms of cancer. A study at Hollings Cancer Center, Medical University of South Carolina has shown one of the ways they work is to "turn on" a normal cellular process called apoptosis. Apoptosis is "science speak" for something called programmed cell death. This natural cell death is just one of several ways our body protects us from cancer. As we age, cellular replication mistakes can occur. Cancer cells somehow become immune to the signals that cause cells to self-destruct, so they become virtually immortal and reproduce indefinitely.

### The disease with a thousand faces

Cancer is not just one disease but is the general name for more than 200 different types of malignancies. Cancers are classified by the tissue type from which they arise. To illustrate:

- osteosarcoma-bone cancer
- melanoma-skin cancer
- lymphoma-cancer of lymph nodes
- leukemia-blood cancer

Every cellular type has its own form of cancer. The one thing all cancers share in common is uncontrolled growth. Cancer occurs when cells lose control over critical checkpoints during the process of one cell splitting and becoming two cells. This control over cellular replication is in the hands of several specific types of genes.

Two classes of genes are suspected of being associated with the occurrence of cancer. A mutation in a **tumor suppressor gene** is like having faulty brakes in your car. Just as their name implies, tumor suppressor genes function by making sure there are no mistakes in the genes that are replicated prior to one cell becoming two. In this “quality control” process, if errors are detected, the cell is instructed not to divide. Thus, tumor suppressor genes put the brakes on cellular division. The other class of genes thought to be involved with preventing cancer is called **proto-oncogenes**. Researchers have found that these genes “code” for proteins involved in mechanisms that regulate the social behavior of cells. Signals from those cells in the immediate environment induce their neighbors to divide, differentiate and even undergo apoptosis. So this type of gene is involved in promoting the normal growth and division of cells and could be likened to your car’s accelerator. A change in the genetic message – a mutation, can turn the proto-Oncogene into an oncogene and cause your accelerator to become stuck, thus initiating “runaway” cellular replication. Nevertheless, there seems to be no pattern to these mutations. What is so frustrating for both researchers and clinicians alike is that different combinations of mutations are found in different types of cancer and even in cancers of supposedly the same type in different patients. What is most important to remember is that cancer begins as a single abnormal cell that begins to multiply out of control.

### **So, what causes most mutations?**

We live in a polluted environment. For instance, the outgassing from asphalt on a hot summer day produces the deadly carcinogen **benzo(a)pyrene**, the same chemical found on meat that has been charcoal broiled. This is just but one example. Exposure to such chemicals in the environment can cause the mutations in our genetic material that leads to cancer. Even normal metabolic processes like breathing and exercise produce free radicals that can wreak havoc on our cellular DNA. We can protect ourselves from mutations caused by environmental toxins and free radicals by taking antioxidants. Guess what? Ellagitannins are also very good antioxidants and chemoprotective agents. Researchers at Wayne State University have a theory about how ellagitannins might work. The liver produces enzymes that rid the body of toxins. These enzymes break down or chemically change toxic substances we ingest or inhale so that they can be excreted. During this detox process, the breakdown products, called metabolites, are frequently more damaging than the original substance. It appears that ellagitannins are able to safeguard the liver from damage caused by these breakdown products. Another theory held by some investigators is that ellagitannins are able to protect our genetic material from certain types of chemical reactions that lead to misreading of damaged DNA.

### **Why does chemotherapy and radiation eventually stop working?**

It is becoming clear that normal therapeutic cancer treatment works by turning on apoptosis. We used to think that chemotherapy and radiation killed rapidly dividing cells, which is why these procedures were able to shrink tumors. However, at some point these treatments begin to lose their effectiveness. Why is that? Scott Lowe, a research scientist at Cold Spring Harbor Laboratory may have found the answer. Instead of killing these cells, chemotherapy and radiation damage their cellular DNA. This alerts the cell watchdogs that control the cell cycle that something is wrong and tells the cell to stop dividing or to commit suicide. Therefore, chemotherapy and radiation act somewhat like a “vaccination” that works by helping the body help itself. The evidence for Dr. Lowe’s theory is pretty convincing, because when these treatments start to fail, researchers have found that the genes that control apoptosis are no longer functioning.

### **Why don’t ellagitannins induce normal cells to commit suicide?**

As we know, cancer cells become immortal; this means that they are able to replicate themselves after something called the Hayflick limit has been reached. The Hayflick limit is the number of “allowed” cellular replications. Each cell type has its own limit. Human cancer studies show that mutations in the tumor suppressor gene called **p53** account for many of the tumors found. One of the functions of this gene is that it normally prevents cells with damaged DNA from proceeding through the cell cycle. The presence of the protein product encoded by p 53 turns on the **waf-1** gene. The waf-1 gene produces a protein that

normally inhibits the activity of several similar cellular proteins called kinases. These proteins are involved in stopping cell cycle progression. A mutation in either the p53 or waf-1 gene can cause the loss of that "emergency brake" function and allow uncontrolled growth. However, only "damaged" cells are induced to commit suicide and so normal cells are not affected.

#### **Other Phytochemicals found in Raspberries**

Besides ellagitannins, the short list of other beneficial compounds found in red raspberries includes anthocyanins, salicylic acid, quercetin and catechins. Some recent work has shown that these anthocyanins are more effective than Vitamin E in inhibiting the COX-1 and COX-2 enzymes. Both Cox-1 and Cox-2 are associated with the pain of arthritis and other inflammatory diseases, and Cox-2 inhibition is positively linked to preventing breast cancer. Besides their anticancer properties, anthocyanins provide many other health benefits. Among these are controlling diabetes, improving circulation and aiding the retention of motor skills and loss of memory linked to aging. Salicylic acid may have the same effects as aspirin in protecting us from cancer and the progression of atherosclerosis. Both quercetin and catechins are flavonols that are known to have antioxidant benefits including cancer prevention, and quercetin may act as an antihistamine also. Besides the anticancer properties of ellagitannins they can protect us against infections.

#### **An Antibacterial and an Antiviral agent**

Ellagitannins can act as antibacterial agents and as antiviral agents too, and now we know how. Think of the genetic material of bacteria as a rubber band that is all twisted up. In order to replicate, the DNA must untwist itself through a process requiring the enzyme gyrase. Ellagitannins inhibit gyrase activity so replication of the bacterial DNA is restricted. Importantly, bacteria cannot easily become resistant to this type of antibacterial action. Resistance to antibiotics has become a real concern to the international medical community. A federal government task force noted that antibiotic resistance was "a growing menace to all people" but children, the elderly and those with weakened immune systems are especially at risk. Besides its antibacterial action, ellagitannins have antiviral activity also. Viruses do not have the ability to replicate themselves. Instead they must "hijack" the host cell and insert their own DNA into the host cell genome. This requires an enzyme called integrase and the ellagitannins inhibit this enzyme also. It is especially helpful with the retroviruses, like HIV, as it inhibits reverse transcriptase specifically.

#### **Diabetes and the Protective Effects of Ellagic Acid**

New data shows that ellagic acid is very effective in preventing damage to the eyes, kidneys, heart and the small capillaries of the feet and hands that occur with high glucose levels. It does this by inhibiting an enzyme called aldose reductase. This enzyme is responsible for the production of protein-sugar products called AGE (Advanced Glycation End-Products) These end products cause the damage of small blood vessels that leads to the blindness, kidney damage, stroke and heart attacks and loss of limbs associated with both forms of diabetes. In addition, ellagic acid as well as several other constituents in raspberry seed powder, enhance insulin action, decrease insulin resistance and lower blood sugar, and have multiple anti-inflammatory effects and decrease oxidative stress as well as lower blood pressure.

#### **Ridding the Body of Heavy Metals**

A recent literature search showed the ellagic acid is capable of chelating the heavy metal nickel. Chelation is a process that involves surrounding an inorganic metal mineral or chemical toxin with organic molecules, thus allowing the body to eliminate these toxic compounds safely. Although there have not been any specific studies done one can assume that because of their similar chemical properties, ellagic acid would also be effective in chelating palladium, platinum and the radioactive element darmstadtium.

#### **Citizen: Heal Thyself. (With apologies to Mr. Hippocrates)**

People are turning to alternative forms of medical treatment and prevention. Not only is the medical delivery system failing but, our costs for health services are rising at an astronomical rate. What this means for the medical consumer is that we need to be more responsible for our own health. We need to look at

prevention instead of always looking to health care providers to “fix” what exposure to a toxic environment and/or years of unhealthy lifestyle practices have wrought. The quality of medical care is uneven at best. Too often, our insurance providers do not cover necessary tests and procedures, especially those of a preventative nature. However, we can become involved in our own health care. A diet rich in fresh fruits and vegetables is a good start towards preventing disease. Unfortunately, current test show that our soil is severely lacking in many minerals or electrolytes and other components that are essential for proper nutrition. It is necessary to sometimes take supplements as it may not be physically or economically possible to eat enough food to get the proper nutrition. In addition, the cost of fresh fruits and vegetables can be prohibitive. For instance, unless you grow your own raspberries, the cost of the American Cancer Institute’s recommended daily bowl of the whole berries could run as high as \$300 a month. Not only that, but research has shown that the ellagitannin content is much higher in the seeds than in the fruit. In addition, the powdered seed may be much more bioavailable than the whole fruit, especially so for the short carnivorous gut of the cat or dog. So nutraceutical supplements appear to be the answer. Raspberry seeds contain many more times the ellagitannins than the fruit at one-tenth the cost. It’s your choice, whatever form you may decide to use – the take home message is: **“Eat your ellagitannins!”**

**Scientific Medical Devices, Inc. (SMDI) has established itself as one of the leading suppliers of Meeker Raspberry Seed Capsules, Meeker Raspberry Seed Powder and Meeker Raspberry Skin Cream made from the Meeker Raspbberry Extract. SMDI sells to consumers, web suppliers, pet owners, health food stores and cancer clinics worldwide. Raspberries contain one of the most powerful antioxidants known – a series of ellagitannins that are converted into ellagic acid in the body. Raspberry ellagitannins are one of very few fruits that have been clinically shown to be transformed into beneficial levels of ellagic acid in the body. The ellagitannin content in the seeds is much higher than in the fruit.**

**The ellagitannin content of red raspberry seeds varies dramatically with the variety of the berry. The highest levels of ellagitannins are found in the Meeker variety of raspberry seed. SMDI has selected a processor who guarantees us greater than 90% Meeker raspberry content and is willing to actively control their raw material stream to satisfy our strict nutraceutical requirements. SMDI has essentially tied up the production of the Meeker variety of raspberry. SMDI processes the seed into maximum bioavailable flour which frees the ellagitannis for immediate adsorption and transformation into ellagic acid in the body. SMDI’s Meeker Variety Raspberry Seed products contain the highest amount of ellagitannins available in nature per dollar spent. There has been much research into ellagic acid, its value as a potential anti oxidant and in its fighting cancer. Ellagic acid has been found to inhibit the promotion and progression of certain types of cancer.**

**Many pet owners are feeding the Raspex Raspberry Seed Powder and the Raspex Raspberry Seed Capsules to their pets. They are expericing dramatic results dealing with tumor reduction and increasing and maintaining the quality of their pets life**

**NOW SMDI is proud to bring you its line of cosmaceuticals – that is a line of cosmetics made with the Meeker Variety Raspberry Seed Extract. These cosmetic products were developed by one of the world’s leading skin biophysicists resulting in some of the most effective skin restoration and preservation products on the market today.**

- **Raspex Skin Cream**
- **Raspex Emollient Facial Cleanser**
- **Raspex Anti Aging/Night Cream**
- **Raspex Vitamin C Serum**
- **Raspex “Hot Raspberry Pie” Foot Cream**
- **Raspex Muscadine Grape/Meeker Raspberry Extract**
- **Raspex Meeker Raspberry Oil**
- **In addition to our Raspex Meeker Raspberry Powder and Raspex Raspberry Capsules**

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Thank you for your order or for your interest in our raspberry nutraceuticals. SMDI has been serving 1000's of customers like yourself since 1993 with the highest quality, lowest cost Meeker Raspberry Powders and Meeker Extract used in our Skin Creams/Gels, serums, ointments and other cosmaceuticals. We pride ourselves in the fact that we have kept our prices as low as possible even though the cost of our Meeker Raspberry Powder has more than doubled and we have recently been hit with a 3 year stability requirement which has nearly put us out of business. We do not charge for shipping and handling but the USPS keeps raising their prices and any price increases are the result of shipping cost increases. We just want to help the most people and pets possible with affordable alternatives.

Since its founding, SMDI has developed into the largest, high quality worldwide supplier of Meeker Raspberry seed products to cancer clinics, Doctors, Veterinarians, health food stores, Chiropractors, internet web sites, distributors, consumers and pet owners. SMDI also supplies multilevel organizations with products which they private brand.

Our Raspberry products are listed on our web sites [www.smdi.org](http://www.smdi.org) or [www.raspex.net](http://www.raspex.net) and a few of the many testimonials are also documented on these sites. Orders may be called in at 770 889-6240 in Atlanta, GA or product may be ordered directly from the web site using PayPal or a Major Credit Card. There is no charge for shipping or handling and most orders are shipped by Priority Mail on the same day as received.

SMDI Raspex Meeker Raspberry Seed Capsules and Powders are being used for fighting many types of cancer (including breast, prostate, colon and skin), diabetes, weight control, tumors, for cholesterol reduction and are anti-fungal/anti-bacterial.

**RASPEX Skin Cream** – SMDI now offers 2 compositions. One without sun block and one with sun block. Both compositions alleviate rosecea, sooth skin cancer/precancer, boosts the skin's immune system, warts, shingles, age spots, moles, poison ivy, poison oak and heal nicks when shaving. The Raspex Cream with sun block helps protect naturally from sun burns and it removes sunburn damage after being sun burned if applied within 4 hours. The Raspex Skin Cream with Sun Block protects from UVA and UVB with a SPF of 30. SMDI has been marketing the Raspex Skin Cream for almost 20 years with excellent results. SMDI sells their skin creams throughout the world.

**Raspex Raspberry Cosmaceuticals** – a whole line of cosmetics is made with Raspex Raspberry Nutraceutical extract for natural treatment of burns, rashes, wrinkles, and sun burns. Raspex Anti-Aging/Night Cream contains collagen builders, antioxidants, moisturizers, and active ingredients which repair sun damage.

**PET OWNERS** - Raspex Powder, Raspex Capsules & Raspex Muscadine Grape/Meeker Raspberry Extract are being used in the pets daily food/water and are reportedly shrinking tumors and retarding/eliminating malignant growths.

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**Some suggestions for getting the most from your Raspex Cosmaceuticals**

## **Raspex Skin Cream/Gel with Sun Block:**

Apply first thing in the morning and may be used by itself and also under any makeup. Helps protect from and heal sun burns, use on cancer, precancer, warts, moles, age spots, athletes foot, diaper rash, acne, rosario, rosacea, keratosis, shingles, blisters, etc. May be spread broadly on skin or applied to spots and let dry 2 to 3 times/day. Raspex Skin Cream with Sun Block has a UVA and UVB in excess of SPF 30. May be used around eyes. Best Sun Block available.

## **Raspex Skin Cream (w/o Sun Block) for use where sun protection is not important.**

Apply first thing in the morning by itself or under any makeup. Helps heal cancer, precancer, warts, moles, age spots, athletes foot, diaper rash, acne, rosario, rosacea, keratosis, shingles, blisters, scars. May be spread broadly on skin or applied to spots and let dry 2 to 3 times/day. May be used around eyes.

## **Raspex Emollient Facial Cleanser:**

Massage face using a very small amount (dime size) to clean off makeup around the eyes being careful not to get into eyes. Give face a final wash with clean water. Designed to clean the most sensitive skin.

## **Raspex Night/Anti Aging Cream:**

Apply after removal of makeup and before retiring for the night. Evening cell turnover complex containing collagen builders, anti-oxidants, moisturizers and active ingredients which soothes the effects from sun damage and promotes the development of healthy skin. Excellent to use during the day when sun protection isn't critical.

## **Raspex Vitamin C Serum:**

May be used around (not in) the eyes to rebuild skin around eyes and reduce wrinkles around eyes. Contains stabilized vitamin C, super moisturizers which rebuilds collagen, protects skin and reduces wrinkles

## **Raspex "Hot Raspberry Pie" Foot Cream:**

A warming cream with peppermint, menthol, tea tree oil and spikenard. Apply liberally to both feet including in between toes. Then put on a pair of socks to heat up the feet and prevent rubbing off cream. An excellent aroma therapy.

## **Raspex Meeker Raspberry Oil**

One drop spread onto skin and work it in

## **Raspex Muscadine Grape/Meeker Raspberry Extract**

Up to 50 times the concentration of other extracts. A little goes a long way – simply add a few drops to your favorite beverage or add to your pets water. This is a very good anti-oxidant.

# Ellagitannin™

Cancer's Natural Enemy

## THE NUMBERS

- ❑ Each day, your own body produces a few hundred to nearly 10,000 cancerous cells as part of normal metabolism
- ❑ Ellagitannins occur naturally in 46 different foods, but the highest natural content is found in red raspberries
- ❑ Every 45 seconds, an American dies from cancer
- ❑ Today, people are exposed to more toxins in 15 minutes than their grandparents were in their entire lifetimes

## IT'S A CELL'S LIFE

We begin life as a single cell -- that's something we learned all the way back in grade school. The amazing thing about our bodies is that from that single cell, an entire person is formed, eventually composed of some 76 trillion cells. The single cell we start as divides and differentiates, and the result is a fully formed and functional human being.

Once our tissues have matured, there is a normal process in cell division -- called apoptosis, or natural cell death - that maintains them in a healthy, normal state. When a cell divides, the replicating cell dies off, and the new cell takes over its functioning. It usually happens like clockwork.

However, there are many cells in our bodies, produced each day as a part of normal metabolism, that don't follow this natural process of apopto-

sis. These cells don't die off as they replicate. Instead, they continue dividing and multiplying, like an algebraic nightmare. These are cancer cells. They are cells multiplying out of control, and when they reach a critical mass, they are identifiable as a tumor.

But it's not just normal metabolism that can create this renegade cell proliferation. Each day we breathe, eat, drink, and come in contact with numerous toxic substances that have the power to actually alter our cellular DNA, mutating normal cells into cancerous ones. Our immune systems are designed to eliminate the abnormal cells, but the very environmental factors that cause their excess production typically also impair immune functioning.

It certainly sounds like a recipe for health disaster. But then, like some superhero coming to save the day, a wonder-working phenolic compound, a constituent of the ellagitannins found in common fruits and nuts, enters the picture. It's called **Ellagic Acid**, and it can be a formidable opponent to the production and proliferation of cancerous cells.

## HOW CAN YOU MEND A BROKEN CELL PROCESS?

Ellagic acid helps stop cancer cell proliferation in two primary ways. One way is through a process called **G-Arrest**. Basically, G-Arrest means that ellagic acid stops cancer cells from mutating and reproducing in the

first place. In tests conducted by the Hollings Cancer Institute at the University of South Carolina, G-Arrest began in 72 hours in both breast and cervical cancer cells exposed to ellagic acid.

The other way ellagic acid impedes cancer cell growth is that it simply sends the cancer cells a message to follow the natural apoptosis process and kill themselves after replicating. Other studies show that ellagic acid may help prevent the development of cancer in cells infected with the human papilloma virus, which has been particularly linked to cervical cancer.

Ellagitannins in general can provide a shield effect. They are known to bind to certain blood-borne toxins, rendering them harmless. They have also been shown to bind to receptor sites on DNA, an activity that blocks the binding of other, cancer-promoting compounds.

The power of an ellagitannin complex to promote good health in the body goes even beyond the cancer implications, however. The berries from which the ellagitannins are derived also contain a natural form of aspirin called salicylates. The National Center for Health Statistics has established a clear connection between reduced risk of heart attack and an increased intake of salicylates.

Even the American Cancer Society has noted the potential benefits of ellagic acid in cancer protection and the reduction of heart disease. In its *Complementary Alternative Cancer*

Methods Handbook, the ACS cited ellagic acid's potential for preventing carcinogens from binding to cellular DNA and its ability to strengthen connective tissue, which may help stop the spread of cancer cells. The book also says ellagic acid may reduce heart disease and promote wound healing.

## IT'S A COMPLEX PROCESS

Since ellagitannins occur naturally in everyday foods, it makes sense that they are the most bioavailable, or most readily used by the body, in this form. In fact, ellagitannins are water-soluble, making them quite easy for the body to absorb. When naturally occurring ellagitannins (most typically found in fruits and nuts) are consumed, they are broken down into ellagic acid, glucose, and other compounds.

Furthermore, additional phenolic compounds found in fruits and nuts add further anti-cancer impact to that of ellagic acid. These include specific ellagitannins with tongue-tying names like coriariin A, oenothien B, lambertianin C, isoterchebin, tellimagrandin II, and sanguin H-6. So an ellagitannin complex -- not just ellagic acid in isolation - is a much better choice for wide-ranging benefit when selecting a dietary supplement.

Healing America's Ellagitannin, as its name implies, is just that -- an ellagitannin complex -- and two capsules twice a day offer 40 mg of ellagitannin complex. This is precisely the amount found in a cup of fresh raspberries. A cup of fresh raspberries per day is what was given to patients in the published studies that demonstrated a positive impact on cancer in a real life situation. Let's look at the sources for this interesting substance:

## Meeker Red Raspberry

The seeds of the Meeker red raspberry are the best natural source for ellagitannins (which, of course, break down into ellagic acid and other components). Actually, ellagitannins are found in 46 different foods, including other fruits like strawberries and pomegranate. But red raspberry seeds, and the Meeker variety in particular, are the most concentrated source of this beneficial phenolic complex.

## PUTTING IT ALL TOGETHER

A hundred years ago, one in 30 people developed cancer over the course of their lifetimes. Today, that figure is closer to one out of every two people. A big part of that increase can be attributed to the sheer volume of cancer-promoting toxins we are exposed to on a daily basis. Asphalt, paint, glues, cleaning solvents, synthetic carpet fibers, insulation -- they're all part of our daily landscape. And yet they all contain toxic chemicals that have been clearly linked to cancer development.

Estimates show the average homeowner often uses 10 times as much pesticide per acre as farmers do. Where do those toxic chemicals end up? They get directly on our skin and in our lungs. Indirectly, they find their way to our streams and lakes, and eventually infiltrate our groundwater - the very stuff we drink and use for bathing and washing our clothes.

It is in this toxic world that ellagitannins can really do their magic. Ellagic acid and the other ellagitannins help our cells resist the cancer-causing effects of environmental toxins. They also act as antioxidants, gathering and ridding the body of destructive oxygen free radicals that can lead to cancerous changes in cells. And all of this capability is

concentrated in the tiny, hard-to-see seeds of the humble red raspberry. It's pretty amazing stuff!

## CAUTIONS

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease, but rather is a dietary supplement intended solely for nutritional support

## SOURCES

Lesca P. Protective effects of ellagic acid and other plant phenols on benzo(a)pyrene-induced neoplasia in mice. *Carcinogenesis* 4:1651-1653, 1983.

Mullen W, McGinn J, Lean ME, MacLean MR, Gardner P, Duthie GG, Yokota T, Crozier A. Ellagitannins, flavonoids, and other phenolics in red raspberries and their contribution to antioxidant capacity and vasorelaxation properties. *J Agric Food Chem.* 2002 Aug 28;50(18):5191-6.

Quideau S, Feldman KS. Ellagitannin Chemistry. *Chem Rev.* 1996 Feb 1;96(1):475-504.

Yang LL, Wang CC, Yen KY, Yoshida T, Hatano T, Okuda T. Antitumor activities of ellagitannins on tumor cell lines. *Basic Life Sci.* 1999;66:615-28.

Okuda T, Yoshida T, Hatano T. Ellagitannins as active constituents of medicinal plants. *Planta Med.* 1989 Apr;55(2):117-22.

Wargovich MJ. Experimental evidence for cancer preventive elements in foods. *Cancer Lett.* 1997 Mar 19;114(1-2):11-7.

Krishnan K, Brenner DE. Chemoprevention of colorectal cancer. *Gastroenterol Clin North Am.* 1996 Dec;25(4):821-58.

Menon LG, Kuttan R, Kuttan G. Inhibition of lung metastasis in mice induced by B16F10 melanoma cells by polyphenolic compounds. *Cancer Lett.* 1995 Aug 16;95(1-2):221-5.

Stoner GD, Mukhtar H. Polyphenols as cancer chemopreventive agents. *J Cell Biochem Suppl.* 1995;22:169-80



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**RASPEX SKIN CREAM with Sun Block**

**RASPEX SKIN CREAM with out Sun Block**

**The health benefits of Meeker Variety Raspberry Ellagitannins have now been formulated into a skin cream by one of the world's leading skin biophysicists. His group has over 40 years of skin care research and has developed some of the most effective skin restoration and preservation products on the market. He has now applied his talents to the next generation of skin care for SMDI! The tremendous antioxidant properties of the Raspex Raspberry Skin Cream/Gel soothes cancer and precancer. The Raspex Skin Cream with Sun Block has an SPF of 30 for both UVA and UVB. The two ounce jar is enough for several months and does the following:**

- **Help soothe cancer and pre-cancer**
- **Protects against Sun Burns (with Sun Block)**
- **Reduces "black & blue bruising"**
- **Repairs sun damage for "after sun" use**
- **Acts to reduce shingles, eczema, rosacea, psoriasis**
- **Reduces effects of poison ivy and poison oak**
- **Helps Heal Cold Sores**
- **Reduces age spots**
- **Acts on bed sores and athlete foot**
- **Reduces wrinkles/Promotes healing**
- **Reduces effects of scarring, mosquito and bug bites**
- **Acts on melanoma and keratosis**
- **Improves fine capillary blood flow**
- **Maintains skin suppleness**
- **Boosts skin's immune system**
- **May be used as an after shave – heals nicks**

**What's in the cream and What does it do?**

- **Ellagitannins from Meeker Raspberry Seeds.**
- **Use of a unique process to extract the ellagitannins from the seeds without leaving a gritty feel on the skin. The ellagitannins reduce solar keratosis (age spots) and actinic keratosis. These sun damaged areas are prime candidates for developing skin cancers.**
- **The ellagitannins also improve fine capillary blood flow which is necessary for healthy, vital looking skin.**
- **Moisturizes tissue and aids in healing after sunburn.**

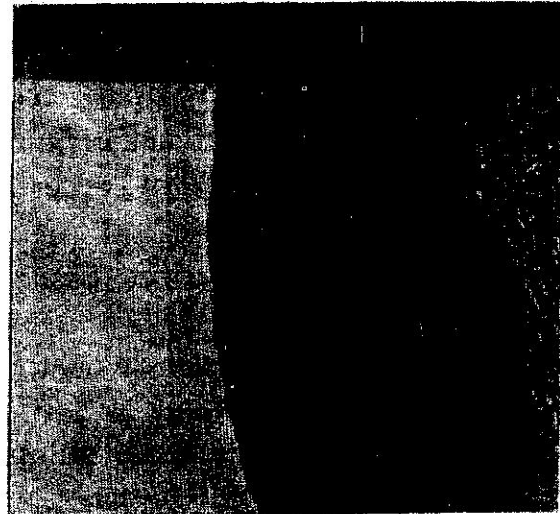
- Promotes wound healing and reduces scar formation.
- Ascorbyl palmitate and allantoin are used as tissue rebuilders that help eliminate wrinkles and rebuild tissue.
- Shiitake mushroom extract boosts the skin's immune system.
- Three moisturizers maintain skin suppleness.
- Linoleic esters: Patented topical anti-inflammatory/anti-irritant which actually reverses sun damage caused by sunburn. **SEE CLINICAL PHOTOGRAPHS ATTACHED.** The left photograph represents a skin sample of sunburned skin exposed to UV. The right photo represents skin tissue treated with Raspex Skin Cream within four hours of UV exposure. The application of Raspex actually **REVERSED** the damage.
- Will not irritate or cause stinging in the eyes. We call this technology "Zero Ocular Irritation" for which only a few researchers are qualified to perform this test in the world.
- Oat protein is a natural anti-inflammatory, anti-oxidant and anti-itch.

**What the Raspex Cream ISN'T:**

- Mineral oil – which clogs pores.
- Diazolidinyl Urea – which is a Formaldehyde producing preservative
- Sodium Lauryl Sulfate (sls) – which is of questionable toxicity
- Propylene glycol – processing aid which adds nothing for the skin.



**Sunburned Skin**



**Sunburned Skin Treated with Raspex Skin Cream within 4 hours after sunburn.**