



**BIO-BOTANICAL
RESEARCH INC.**

Biocidin®

A Dietary Supplement

A laboratory tested, high potency broad-spectrum botanical combination.

Ingredients:

Bilberry Extract (25% Anthocyanosides)
Noni (Fruit)
Milk Thistle (Seed)
Echinacea (Purpurea & Angustifolia)
Goldenseal (Root)
White Willow (Bark)
Garlic (Bulb)
Black Walnut (Hull and Leaf)
Grapeseed Extract (Min 90% Polyphenols)

Raspberry (Fruit)
Gentian (Root)
Fumitory (Herb)
Shiitake (Plant)
Tea Tree Oil (Leaf)
Galbanum Oil (Resin)
Lavender Oil (Plant and Flower)
Oregano Oil (Plant and Flower)

Other Ingredients:

Vegetable Glycerin, Alcohol <5% (potato and or cane source) Product contains no allergens such as milk, eggs, yeast, corn, soy or wheat. Free of any synthetic ingredients, colors, additives or excipients. No animal testing. 100% vegetarian/vegan formula.

Formula Consideration:

Biocidin® is a potent broad-spectrum botanical compound designed to support the entire immune system. This carefully crafted formula targets the intestines and supports digestion, as well as systemic immune function. Independent laboratory testing has concluded that Biocidin® has broad reaching effects in various and challenging environments.*

The key to understanding the effectiveness of this compound lies within its unique formulation. Biocidin® utilizes key immune-supporting compounds, such as berberine found in Gentian and Goldenseal. Berberine has long been the focus of scientific research, with publications spanning several decades.

Goldenseal is certainly one of our most prized western herbal remedies for a variety of infections. Although most lauded for its generous antimicrobial activity, Goldenseal's most notable aspect is its ability to restore integrity within the mucus membrane tissue. This makes goldenseal an important remedy for many types of conditions relating to inflamed or disturbed mucosa. Thus, Goldenseal is an important anti-inflammatory herb with particular relevance to the stomach, intestines and respiratory tree.

Additionally, Goldenseal contains bitter alkaloids that stimulate the production and release of bile. Bile plays a vital role in the process of detoxification by removing toxic byproducts through the intestines where it can be eliminated from the body. Due to this bitter quality, it is best to formulate Goldenseal among other beneficial plants to avoid the necessity of using higher doses, which may bring about unwanted GI effects.

Similarly, Echinacea and Garlic, have a long history of use for seasonal wellness and have been noted for their ability to bolster the immune system and assist the body in its defense against environmental challenges. The individual compounds found in Garlic and Echinacea have been reported to have immune supporting benefits difficult to match in the natural or synthetic world. In fact, significant activity has been reported in vitro with even minute doses.

Garlic has long been a celebrated culinary and medicinal ingredient for centuries. The cardiovascular effects of garlic have long been popularized in the media with many studies documenting its positive effect on cholesterol metabolism and reductions to platelet aggregating factors (PAF). Additional epidemiological evidence has also suggested that garlic may have cancer-preventing aspects, with particular relevance to the gastro-intestinal tract.

Most impressive, however, are the effects that garlic has on pathogens. With a host of active constituents collectively known as organosulfur compounds, garlic is a prized antimicrobial and antiviral herb. It is also a highly effective anti-parasitical agent within the alimentary tract without causing a disturbance to the beneficial flora of the intestines.

Garlic also contains several volatile oils which give it particular clinical significance. These volatile oils act as immunological agents within the body, attacking harmful bacteria while simultaneously promoting the growth of beneficial ones. The chemical structure of these volatile oils determines the area of the body in which they will be eliminated. The particular volatile oils from Garlic come into direct contact with the tissues of the lungs during the process of exhalation, making Garlic particularly useful among infections within the respiratory tree.

These key immune-supporting compounds are then combined with powerful tissue strengthening plant tannins, such as those found in Black Walnut and White Willow. Tannins, also called polyphenols, are commonly found in many health benefiting foods such as wine, pomegranates and green tea to name a few. Traditionally, tannins were used to “tan” hides into leather, hence the term “tannins”. Today, modern scientific research has suggested that this tannic property might be responsible for many immune benefiting effects by strengthening tissues that protect the body.

While Black Walnut is favored by herbalists as an anti-parasitic remedy, White Willow Bark has long been heralded for its ability to quell inflammation. Historically, it was most frequently used for its ability to increase micro-circulation, and was used in the treatment of painful rheumatism and gout. White Willow Bark is considered the original and natural form of aspirin, and although it does not have the potency of its synthetic cousin, it has been suggested that it may stay in the body for longer periods of time. Inflammation is the hallmark of many types of conditions and contributes considerably to the symptom picture. White Willow Bark’s ability to increase circulation in smaller vessels helps bring the antimicrobial effects of the other ingredients to poorly vascularized tissues, and it is a welcome addition to the formula.

Biocidin® also includes key medical grade essential oils from Oregano, Tea Tree, Galbanum and Lavender. These fragile, yet vitally important oils have key biological effects. Their uniquely complex chemical structure determines their effectiveness and medicinal direction. As these essential oils are naturally volatile, their extraction and preservation are key to their success. Careful efforts must be taken to protect these compounds whose supportive qualities are second to none in the herbal world. Additionally, these essential oils have also been shown to positively benefit the respiratory tract and support normal respiration already within normal ranges. They have also been shown to reduce reactivity and assist in supporting calmness and tranquility. These essential oils have all shown to be antimicrobial and antifungal in scientific studies, with Galbanum also being noted in historical herbal texts, such as the King’s Dispensary as an anti-parasitic.

Importantly, the addition of free-radical quenching antioxidants, such as those found in Bilberry, Milk Thistle, Grapeseed, Raspberry and Noni protects cellular tissues from the downstream effects of environmental pressure. Antioxidants, such as those found in the formula, have been largely recognized by the scientific community as having generous and wide-spread health promoting effects.*

Milk Thistle is a widely celebrated plant medicine with a tremendous reputation as a liver tonic. Modern research has validated many of its historical uses showing it to be restorative to liver cells by promoting protein synthesis. It has also been shown to be a bi-functional modulator of Phase 1 and Phase 2 Biotransformation, stimulating both Glutathione and CYP 450 enzyme production within the liver. This particular function is why Milk Thistle has been shown to reverse the effects of highly toxic alkaloids, such as those found in the poisonous Amanita mushroom.

The importance of the liver cannot be underestimated, particularly with regards to the elimination of toxins

from the body. The addition of Milk Thistle to the Biocidin® formula adds an important detoxifying element, which assists in the removal of biological waste such as those created from pathogenic debris.

The Noni fruit has enjoyed recent popularity in the United States, though it is far from novel to its native soils of Samoa, Japan and Tahiti. Noni has a long history of use as a tonic to contain fever. It was also used topically in the treatment of conjunctivitis as well as skin infections and gingivitis. It has even been used as a stomach tonic and for the abatement of upper respiratory tract infections.

The University of Hawaii has shown great interest in the fruit, and was recently among the first to describe its constituents to the scientific community. Among those identified were several lignans, including a group of phytoestrogens, as well as several oligo- and polysaccharide chains, which are complex sugar molecules and can serve a nutritive function to beneficial colonic bacteria. Noni has also shown to serve as a source of Caprylic acid. Caprylic acid is a particularly interesting compound due to its relatively short chain length, which makes it particularly effective in penetrating fatty cell wall membranes. This quality lends itself well in combating certain lipid-coated bacteria, as well as fungus such as candida albicans. Finally, the addition of classical immune tonics, such as Fumitory and Shiitake, play a critically complimentary role in the formula. Traditionally, these fortifying plants were used to assist in the rejuvenation of the body. Customary to traditional medicines, it is always important to support the major systems of the body in order to pave the way for sustainable health.

By formulating together these key botanicals, Biocidin® supports and strengthens tissues while supporting the immune system. The formula also supports long-term wellness with traditional tonics that sustain the body. Biocidin® is available in liquid extract, throat spray or liquid filled capsules.

Among the anecdotal experiences collected, key ingredients in this formulation has been successfully used as nutritional support in treatment of the 'Common Cold', Influenza, Candida, Lyme disease and co-infections, skin infections, Epstein-Barr virus, Herpes I and II, Herpes zoster (Shingles), CFIDS (Chronic Fatigue Syndrome), severe diarrhea, UTI (urinary tract infections), prostate inflammation and ear aches, and has been a useful support when addressing other symptoms related to bacterial, viral, parasitic and fungal infection.

Dosage:

Adults: 1 to 5 drops taken up to 3x per day, or 1-2 capsules daily. This amount may be doubled to more quickly provide support in acute immune challenges until symptoms improve.

For Children: 1 drop per 10 lbs. of body weight divided into 2 - 3 doses daily.

This product may be taken on an empty stomach or with a small meal as desired. When using probiotics such as Proflora® take these 2 hours apart from Biocidin®.

Contraindications and Interactions:

This product has not been tested or approved for use by those who are pregnant. If you have a medical condition or take pharmaceutical drugs, please consult with your healthcare provider before using this product. As with any medication, please keep this product away from children. Use only as directed.

*These statements have not been evaluated by the Food and Drug Administration. (FDA)
These products are not intended to diagnose, treat, cure or prevent any disease.

For information or to order call Toll Free 800.775.4140. www.biobotanicalresearch.com



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Clinically Effective Formulations since 1987