

## What is Modifilan®?

Modifilan is a natural dietary supplement; an extract from the richest type of brown seaweed – *Laminaria Japonica*. This unique nutritional product is comprised of all the important organic elements found in seaweed.

The patented technology of physical extraction and low-temperature evaporation processing removes the seaweed's outer fiber and extracts only the inner, water soluble, part of the Laminaria leaf. This enhances minerals, vitamins and polysaccharides for easier digestion and better results. Forty pounds of raw seaweed are needed for the production of only one pound of Modifilan. In essence Modifilan is the dried juice of seaweed.

The major difference between Modifilan and all other seaweed products on the market is its bio-availability. Even the most recognized kelp and algae nutritional supplements are generally dry ground seaweed in variations and nothing else. In its original form seaweed is not optimally digestible. Thick heavy fibers of seaweed turn into a harsh sandy substance when they are dried and ground. A simple test can be done – mix any other types of seaweed products with water and you will see that they do not dissolve entirely but rather make a sludge which never gets digested. When we mix Modifilan with water or juice it develops into a light suspended gel. The extract fully dissolves and this is the best indication of a product's bio-availability.

Organic Iodine feeds the thyroid gland which controls metabolism and promotes maturation of the nervous system. It is also the main natural disinfection agent in our body. Every 15 minutes all our blood goes via that small organ.

Laminarin is a polysaccharide helpful in the prevention and treatment of cardiovascular diseases. It helps to balance coagulation of blood.

Alginate is a natural absorbent of radioactive elements, heavy metals and free radicals. It has the unique ability of binding heavy metals and radioactive elements to its own molecules. As the Alginate cannot be broken down by bile or saliva and cannot be absorbed by the body, it is secreted from the body together with the heavy metals and radioactive substances. Removal of the heavy outer fibers made it possible to receive all the nutritional qualities and good minerals of seaweed in one simple but very potent wholesome product.

The healing qualities of seaweed had been known for centuries. The Russian government instructed scientists working in the State Rehabilitation Institute to find a powerful remedy for radiation poisoning among that macrobiotic group.

After trying various forms of algae, one type yielded the best scientific data for this purpose. It was the brown seaweed known as *Laminaria japonica*, which grows wild in the northern Pacific Ocean off the coast of uninhabited islands far to the east of Russian, known as the Kurils. One of the main qualities of Laminaria is its high content of sodium alginates, which are enhanced by the extraction process used to produce it.

Alginates are the most effective organic elements that enable the human body to get rid of heavy metals and toxins. Not all “algae” have alginates; blue or green algae does not. According to scientific testing, only brown seaweed does!

The unique methods of extraction, as well as the quality of this seaweed, are the key. The low-temperature processing of the brown seaweed causes a sloughing off of the heavy outer fibers of the seaweed, while retaining the essential properties of the plant. This process further enhances its bioavailability making the Laminaria more digestible. Taking 8 capsules of extract a day provides the same amount of good, organic micro- and macro-elements as that contained in an entire plate of this nutrient-rich seaweed.

The brown seaweed is NOT cooked. The oldest Japanese recipes of preparing seaweed tell us to eat seaweed raw, rather than cooked. Modern science affirms that an anti-cancer substance called Fucoidan, as well as beneficial polysaccharides, will break down if seaweed is cooked. This was determined when studies were performed on the Japanese island of Okinawa, which has the lowest cancer death rate in Japan.

In the former Soviet Union, little was known of this brown seaweed extract for several decades due to its very specific field of application. The first time it was successfully used in volume was after the Chernobyl nuclear plant catastrophe in 1989. Used for detoxification and thyroid gland rehabilitation, Modifilan helped thousands of nuclear plant workers and people in the area affected by the explosion. A large group of doctors were assigned to observe the health conditions of those who ate Modifilan for almost one year. The positive health results overcame all their expectations.

Rigorous scientific and clinical studies in the former Soviet Union (USSR) had shown many other benefits of this product. The latest research on brown seaweed in Japan has confirmed the presence of Fucoidan. This organic element promotes cancer cell apoptosis (programmed cell death) in leukemia, stomach and colon cancer cell lines. Modifilan has 4% of Fucoidan by volume in its natural form – as much as raw kelp.

In the mid-1990s Modifilan received certification from the Russian Ministry of Health as the leading non-medicinal prophylactic product. But manufacturing it in the new market economy there became too costly. Growing prices on raw non-farmed Laminaria made it impossible to extract Modifilan according to the patented technology. PSD, Inc from California obtained a patent and brought the new product back to life in 1997. The finished product is made in America now, although the raw seaweed is still harvested in its natural habitat.

Modifilan Brown Seaweed Extract is best taken on an empty stomach. Take it first thing in the morning and in between meals with plenty of water, as it is a highly concentrated product. It is not recommended to take it before bedtime as most people report an increased energy level, which could inhibit sleep. It does not cause nausea on an empty stomach but gives a feeling of well being in the stomach and intestines.