



MegaDefense™ (MD)
Frequently Asked Questions (FAQs)

What is MegaDefense?

Waiaora's MegaDefense is a premium, all-natural, immune support solution. Pairing the blend of the proprietary IM6 Full Spectrum Immune Complex blend with the first proven heavy metal and toxins remover, MegaDefense is the most robust daily immune-support product on the market today.*

Who needs it?

Everyone. Science and medical experts agree that the key to optimal health and vitality is a healthy immune system. And while a number of things wreak havoc on your immune system, exposure to heavy metals and toxins, as well as bacteria, germs and dangerous pathogens top the list as key factors in your health's demise. MegaDefense is a must for anyone looking to free themselves from the escalating costs of health care.

What's in it?

MegaDefense combines the proprietary and exclusive IM6 Full Spectrum Immune Complex with the NCD Activated Zeolite of our premier natural detoxifier Natural Cellular Defense.*

What mushrooms are featured in the IM6 Full Spectrum Immune Complex?

IM6 Full Spectrum Immune Complex features six all organic non-GMO medicinal mushroom species: Agaricus blazei, Cordyceps sinensis, Grifola frondosa, Ganoderma lucidum, Coriolus versicolor and Lentinula edodes

Why the switch from a single mushroom to a blend?

It is therapeutically best to utilize a blend of several mushroom species, because "the whole is greater than the sum of its parts." For one thing, it is easier for pathogens in the body to adapt and become resistant to one mushroom than to several. Secondly, each mushroom species has a unique arsenal of anti-infective and immunomodulating agents.

These special agents include:

- Polysaccharides
- Glycoproteins
- Ergosterols
- Triterpenoids

The agents listed above are precursors to the more complex compounds, beta glucans. It is the synergy between ALL of these elements that makes mushrooms so medicinally powerful when consumed as a whole food—mycelium included.

Because mushrooms have such powerful immune-boosting effects, it isn't surprising that some have great potential for battling life-threatening conditions. Mushrooms that have been researched for their anti-tumor activity appear to increase the number and activity of killer T and natural killer (NK) lymphocytes, with no toxicity to healthy cells.

What is so special about exclusive IM6 Full Spectrum Immune Complex featured in MegaDefense and how is it different from other blends in the market?

The full spectrum medicinal blend is so incredibly unique and beneficial it is protected by numerous patents including one for the growing environment. Unlike most immune supportive product that feature an extract or two of a mushroom—Waiaora's MegaDefense boasts a full spectrum complex. This means *IM6 Full Spectrum Immune Complex* provides ALL of the biologically active components of the medicinal mushrooms—including the mycelium, the fruitbodies, the spores and by far the most important of all, the extra-cellular compounds that are produced throughout the entire life cycle of the organism. Its beta glucan count is the highest ever seen in a product of this kind, and is DNA authenticated by the National Institutes of Health (NIH) to ensure quality, efficacy and consistency.*

What's the significance of the DNA Authentication testing and how is it done?

The substrate and breeding process that resulted in the IM6 Full Spectrum Immune Complex took years to develop and perfect. Each crop is tested using DNA authentication technology (performed and evaluated by the National Institutes of Health to guarantee the properties of each new crop have not mutated and to ensure the product's potency.

What's so special about the IM6 Full Spectrum Immune Complex manufacturing process?

It is a pharmaceutical manufacturing process to harvest the immune-activating polysaccharides produced through the competitive growth action of six species of mushrooms. We start with a laboratory growing six species of medicinal mushrooms in a climate controlled, solid state fermentation process, where the six species are co-inoculated into sterilized substrate so they compete with each other for nutrients and space, thereby producing anti-competition compounds as a result of their competitive growth environment.

After 12 weeks of growth in a closely controlled lab environment, we take this co-cultivated material, and as a first step we perform a hot water extract, which harvests the smaller molecular weight polysaccharides from the raw material. We set that extract aside and further process the non-soluble portion by running it thorough high pressure shear pumps driving the material through sub-micron sized orifices, molecularly separating and shearing the polysaccharides, and flash that through a high temperature air processing to harvest the larger molecular weight polysaccharides and heteropolysaccharides of the triple right-hand helix, beta-bound conformation.

These higher molecular weight compounds are blended with the smaller molecule water-soluble portion extracted in step one. The entire concentration is then flash-spray dried to yield the full content of the immune active polysaccharides and heteropolysaccharides from the raw materials. This process results in the most potent immune modulator raw material available anywhere today, and is so revolutionary it is already covered by two patents and has other patents pending.*

I understand that the IM6 Full Spectrum Immune Complex in MegaDefense is rich in beta-glucans. What are they and what is their significance to supporting the immune system?

Beta-glucans are a unique compound derived from the cell walls of yeast. It triggers an immune response in the body creating a system of defenses against viral, bacterial, fungal, parasitic or neoplastic invaders. Beta-glucans also have potent antioxidant and free radical scavenging capabilities.

What are NK Cells?

Natural Killer (NK) cells are cells that contain granules filled with potent chemicals. They are called "natural" killers because they do not need to recognize a specific antigen before swinging into action. They target tumor cells and protect against a wide variety of infectious microbes.

Does this stimulate the immune systems? Is this dangerous?

The IM6 Full Spectrum Immune Complex in MegaDefense helps modulates the immune system. Essentially this means that it helps to ensure your immune system stays balanced. There will be periods where your immune system is challenged and your levels are higher or lower than they should be, in each case the IM6 will step in and help to bring the levels back into balance.

What is the mechanism of action of the IM6 Full Spectrum Immune Blend in MegaDefense?

IM6 Full Spectrum Immune Complex is a combination of over 200 highly purified, immunologically active, bioavailable heteropolysaccharides and 1,3-1,6 beta glucan compounds, which are concentrated and purified from six all organic, non-GMO medicinal mushroom species: *Agaricus blazei*, *Cordyceps sinensis*, *Grifola frondosa*, *Ganoderma lucidum*, *Coriolus versicolor* and *Lentinula edodes*. Each of these species offers slightly different polysaccharide structures, which activate many more types of immune cells than just simple beta glucans do. While the earlier yeast beta glucans activated only the Natural Killer (NK) cells, research shows IM6 Full Spectrum Immune Complex activates all 260 different classes of immune cells, including the NK cells, T-cells, Macrophages and many others. IM6 Full Spectrum Immune Complex is simply the most advanced breakthrough in immune science of the 21st century.

How bioavailable is the IM6 Full Spectrum Immune Complex?

IM6 Full Spectrum Immune Complex is a combination of both water-soluble heteropolysaccharides and HMW non-soluble, triple-helix beta glucans. It is fully micronized through a proprietary process to a maximum particle size of less than 40 microns, which makes it instantly absorbable. While yeast beta glucans are only 5 to 10% bioavailable in humans, IM6 Full Spectrum Immune Complex is virtually 100% bioavailable since the micronized absorption takes place so quickly that there is no breakdown of the active polysaccharides from contact with the stomach acid, as occurs with other beta glucan products.

How much NCD Activated zeolite is in MegaDefense?

Each serving contains 200 mg. That's 100 mg per capsule.

How does the serving of NCD Activated Zeolite in MegaDefense compare to the zeolite in NCD?

The powdered NCD Activated Zeolite in MegaDefense is roughly the equivalent to a 10-drop dose of liquid suspension of the NCD Activated Zeolite in NCD. It's approximately the equivalent of 5 drops (or 40 mg) of activated zeolite per capsule. Ten drops (80 mg) of activated zeolite per serving (two capsules)

How much IM6 Full Spectrum Immune Complex is in MegaDefense?

Each serving contains 700 mg. That's 350 mg per capsule.

How many do you take?

Take two veggie caps daily.

When do you take it?

You can take both capsules at the same time (with or without food) or you can take one at a time throughout the day. Splitting the servings (one capsule at a time) would afford you day-long immune-supportive protection.

What are zeolites?

Natural zeolites form in nature as a result of a chemical reaction between volcanic lava and saline water. Zeolites have large open spaces or cages in their structures that form channels. These channels allow the easy movement of ions and molecules into and out of the structure. This ability puts zeolites in the class of materials known as "molecular sieves."

There are about 40 naturally occurring zeolites and over 100 synthetic zeolites. There are three different classes of zeolites with varying molecular chemical structures:

- Chain-like structures whose minerals form acicular, or needle-like, prismatic crystals - as found in asbestos.
- Framework structures where the crystals are more equal in dimensions - as found in chabazite.
- Sheet-like structures where the crystals are flattened - as found in clinoptilolite.

Another unique and important fact about zeolites is that they are one of the few negatively charged minerals found in nature. The natural properties of zeolites act as molecular sieves, or filtering agents, that attract and trap into them positively charged atoms, ions, and compounds, and can remove them from a system.

Which zeolite do you use in MegaDefense?

We use naturally occurring clinoptilolite in MegaDefense. This particular zeolite has been used for over 800 years in traditional medicine to improve general health. It has been widely used in its raw form in places like India, China and Russia. In the United States, zeolites have been used in water filtration, air purification, animal feed and even in fertilizers to keep the crops healthy. Now we're using it in an enhanced form using a proprietary activation technology as a dietary supplement.

How does NCD Activated Zeolite Work?

The activated zeolite in MegaDefense (clinoptilolite) has a cage-like structure with pores and channels running through the crystal. The cage carries a net negative charge, making it one of the few negatively charged minerals found in nature. Because of its cage like structure and negative charge, the clinoptilolite has the ability to draw to itself and trap within itself positively charged heavy metals and other toxic substances.

What is the significance of the micronization process the NCD Activated Zeolite in MegaDefense undergoes?

The micronization process begins by milling pure clinoptilolite into ultra-fine particles. This milling process reduces the zeolite's particle size. This is important because the smaller the size of the particle, the more readily it can become a colloidal liquid and absorbed into the bloodstream. Our micronization process continually grounds the zeolite smaller and smaller until it reaches the consistency of a fine powder.

Many zeolite products skip this step and simply place raw (unmicronized) zeolite into canisters or capsules. Most commercially available zeolites measure between 2 and 40 microns. Zeolites greater than eight (8) microns are primarily beneficial as digestive cleansers as they are far too large to allow for absorption from the digestive tract into the bloodstream. In order to utilize the zeolite as a systemic detoxifier, the crystals need to be reduced in size to less than eight (8) microns.

So what's the point of the activation process?

It is during the process that the micronized zeolite is cleaned and sterilized. This is important because zeolites, being formed over millions of years can absorb harmful elements including metals and toxins. Waiora proprietary activation process cleans out the cage and ensures a superior and unique product. During the activation process, the micronized zeolite is added to purified water and heated.

A proprietary blend of natural acids are then added and heated at various temperatures during a 48-hour activation process. This activation process cleanses the zeolite—emptying the zeolite cage—ensuring no unwanted substances are present in the final zeolite solution. The water aids in this exchange of compounds and stabilizes the zeolite charge. It is during this process that the product becomes a colloidal suspension, allowing the micronized zeolite particles to be suspended into an ultra-purified water solution.

The solution then goes through a sterilization process of extreme heating and cooling. This process ensures that any bacteria and microbes that may be present are completely eliminated. The solution is

then heated to extreme temperatures—180 degrees and higher—which separates the microbes from the material. This layer of unwanted material is removed from the solution.

During this process, the natural acids are continually entering and displacing any microbes and other unwanted substances that may exist in the zeolite—further strengthening the charges of the zeolite solution. This dual-activation process of cleansing and sterilization cycles through over and over again until no unwanted materials exist. The conclusion of this step yields a pristine zeolite in ultra purified water.

Is the zeolite cage compromised during micronization?

The zeolite cage cannot be “broken” no matter how small it becomes—it is indestructible. Consider a 5-carat diamond that is cut into five 1-carat stones. The structure of each carat is exactly like that of the original 5-carat stone only smaller. And if that 1-carat stone was pulverized into dust, each tiny piece of diamond would still maintain the same properties and structure of the original jewel.

Is MegaDefense all natural?

Yes. MegaDefense combines naturally occurring clinoptilolite and a proprietary blend of six certified organic, non-GMO medicinal mushrooms.

Are the capsules gelatin or vegetable based?

The MegaDefense capsules are vegetable based, quickly assimilated into the system and easily digestible.

Can I MegaDefense with other Waiora products?

Absolutely. There should be no issues or contraindication when integrating MegaDefense into your daily nutritional regimen of other Waiora products.

Can I take MegaDefense if I am currently taking any prescription medications?

As a nutritional product, MegaDefense has no known adverse food-drug interaction. However, it is a good practice to consult with your doctor before taking nutritional supplements.

What are the FDA allowable health benefits for MegaDefense?

- Supports Natural Killer (NK) Cell activity.*
- Plays a role in immune system modulation.*
- Helps protect cells.*
- Helps remove heavy metals and toxins
- Promotes overall health and well-being.
- Nourishes the digestive system.*
- Supports a healthy cardiovascular system.*
- Supports normal blood sugar levels.*
- Protects against free radical damage.*

Are there clinical studies on MegaDefense available?

While there are numerous studies and clinical papers advocating the countless benefits of clinoptilolite and medicinal mushrooms, there is currently no published study on MegaDefense. There is a white paper on the science behind the MegaDefense that has been authored by the premiere zeolite expert, Rik Dietsch as well as a new research paper on the medicinal mushroom blend. Both papers have been posted in the back office and are also available on waibuzz.com.

What is the shelf life of the MegaDefense?

The shelf life of *MegaDefense* is two years.

Is this product exclusive to Waiora?

Yes, Waiora has negotiated an exclusive product license for the global direct selling market with the manufacturer of *MegaDefense*.

Will *MegaDefense* be sold in Waiora's other open markets?

Yes, as soon as the product has been registered.

Can pregnant or nursing mothers take *MegaDefense*?

While the product is safe and all natural, we recommend that pregnant or nursing mothers should consult with their physician before taking *MegaDefense*.

Can someone with an auto-immune condition take *MegaDefense*?

We would recommend that someone with a compromised auto-immune function consult with their physician before taking *MegaDefense*.

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