

### *What is **Waiora® Natural Cellular Defense**?*

**Waiora® Natural Cellular Defense** has been clinically formulated to help support a healthy immune system, remove heavy metal toxins and balance your body's pH levels.\* **Waiora® Natural Cellular Defense** is comprised of an activated, liquid form of a naturally-occurring zeolite.

### *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 for **Waiora® Natural Cellular Defense**?*

We use naturally-occurring clinoptilolite in the Natural Cellular Defense. 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.

### *Is the zeolite in **Waiora® Natural Cellular Defense** the same zeolite found in other zeolite products?*

Absolutely not. The manufacture of **Waiora® Natural Cellular Defense** starts with the preparation of the all-natural mined mineral. Many other zeolite products simply mine the

mineral and create a powder/capsule or liquid that contains the raw, untreated, non-activated zeolite.

**Waiora® Natural Cellular Defense** is the only zeolite product that micronizes the zeolite and puts it through a multi-step activation process that cleans the “cage” of the mineral to ensure a greater surface area to capture toxins and eliminate them from the body.

*So, what is actually in this mineral? Is it something that we can find on the periodic table?*

It's a mineral with a cage-like structure. It's created by aluminum and silica that are trapped in small tetrahedra (pyramid-like structures) created by oxygen atoms. These form 8-sided and 10-sided rings that stack on top of each other to form channels. The aluminum is positively charged and the oxygen around it is negatively charged, giving the entire molecule a net negative charge. This is a very stable compound. For all practical purposes, this is an invincible molecule.

*Can the aluminum be absorbed into the body from the zeolite?*

No. The aluminum in the product is at the center of a tetrahedron (it's surrounded by tightly-held oxygen atoms). It is not free to exchange into the system. So imagine you have a pyramid that's made of oxygen with aluminum in the center of that pyramid. It's what they call 'non-exchangeable aluminum'. We have done studies where we have found that **Waiora® Natural Cellular Defense** increased the excretion of additional aluminum, which means that the zeolite is pulling aluminum out of the body in addition to the aluminum contained in the product itself.

*Is there any possibility of the aluminum being released because of this?*

Absolutely not. The aluminum is in the middle of the tetrahedron of oxygen. So, imagine you have a pyramid that's made of oxygen with aluminum in the center of that pyramid. It's what they call non-exchangeable aluminum. Studies have been done where 100 percent of the aluminum was recaptured as it came out in fecal matter and urine from the patients. Additionally, it has been found that a patient would excrete additional aluminum, which means that the zeolite is pulling aluminum out of the body in addition to the aluminum contained in the product itself.

*How does **Waiora® Natural Cellular Defense** work?*

The zeolite in the **Waiora® Natural Cellular Defense** attracts and traps small, highly-charged particles that fit into the pores and channels of the zeolite cage. This includes heavy metal toxins. **Waiora® Natural Cellular Defense** has been shown to remove mercury, lead, cadmium, arsenic and other heavy metals. Research has shown that it does help balance pH,

which makes a more alkaline system. A slightly alkaline environment in the body helps to stabilize the immune system.

### *Who needs to take **Waiora® Natural Cellular Defense**?*

Everyone is exposed to heavy metal toxins on a daily basis in the air they breathe, the food they eat and the water they drink. In order to remove these toxins and maintain a clean and healthy body, everyone should take **Waiora® Natural Cellular Defense** on a daily basis. We recommend the product for persons 18 years of age or older. People under the age of 18, pregnant women and children should consult their physicians prior to use.

### *How is **Waiora® Natural Cellular Defense** manufactured?*

The manufacturing facility itself is certified to be cGMP-compliant (current-Good Manufacturing Practices) by the FDA. GMP is an FDA (Food & Drug Administration) term for the Quality Control and Quality Assurance (QA/QC) procedures that are standard in the facility. This also includes training of the personnel, storage of materials and micro-analysis of the product. The manufacturing process takes approximately five to seven days. Some of the finished product is sent for analysis using Thin-Layer Chromatography (TLC) and High-Performance Liquid Chromatography (HPLC). The product is also sent through a detailed micro-analysis, where it is evaluated for any sort of contamination (bacterial, molds, spores, etc.). Finally, some bottles from every batch are retained so that these can be tested on a future date if it becomes necessary. We also periodically inspect the manufacturing facility and all of their batch records.

### *Why does **Waiora® Natural Cellular Defense** sometimes look, taste or smell differently?*

The zeolite in the **Waiora® Natural Cellular Defense** is an all-natural mined product. As such, there will be some variability as to its excess mineral content (i.e. magnesium, sodium, potassium, iron, etc.). Although these are very slight variations, they can cause great differences in the taste, smell and color of the product. Additionally, some minerals may darken in solution (i.e. iron). Because of this, some of the **Waiora® Natural Cellular Defense** can have a brownish tint.

### *If there are different amounts of minerals in the product, can it be dangerous?*

No. The variations in the excess mineral content are negligible and cannot be considered as a source of the mineral

### *Why is some of the product tinted brown or green?*

The zeolite is a naturally-mined mineral. Because it is mined, its pigment qualities can be affected by outside elements - time of year, air and water most specifically (in the spring time, there may be more rain or snow run off as opposed to the fall).

The color variations of zeolite can and do range from an off-white/beige color to a light green. Although these are very slight variations, they can cause great differences in the organoleptic properties of the product (taste and smell).

A recently tested sample of the product contained less than one (<1) microgram of iron. This was certainly enough iron to change the color of the product, but not enough to have any physiological effect.

*Why are other mineral products consistent while the **Waiora® Natural Cellular Defense** may be different from one bottle to the next?*

Most multi-mineral products use formulations of single, purified minerals. These are known quantities that may be entirely consistent. The **Waiora® Natural Cellular Defense** uses a natural, mined product that contains natural variations of its mineral content. While the amount of the zeolite is standardized and remains constant in the product, the excess minerals may change.

*Is one microgram a large amount of iron?*

No. It's a negligible amount. As an example, one average bite of steak has approximately 500 micrograms of iron.

*Can the plastic from the bottles leach into the product?*

No. We use a high-density bottle that is resistant to leaching and there are no components in the **Waiora® Natural Cellular Defense** that are known to degrade plastic. We have had the bottle independently tested for plastic leaching and the results showed no leaching.

*Will heat affect the zeolite in the **Waiora® Natural Cellular Defense**?*

The zeolite is an extremely stable molecule that can withstand very high temperatures (over 900 degrees Fahrenheit). Hot days will not change the product or limit its efficacy.

*Will cold alter the product in any way?*

The zeolite is completely stable at cold temperatures. If the product becomes frozen, simply defrost it and shake it lightly before using to ensure a uniform suspension of the zeolite.

*Can the zeolite in the **Waiora® Natural Cellular Defense** lower potassium in the body?*

No. The zeolite has a very specific reactivity series. Smaller atoms with higher positive charges have greater affinity for the zeolite. Heavy metals tend to be small and highly charged while the necessary minerals tend to be larger with lower charges. For example, arsenic has a charge of +3 and a diameter of 1.8 Angstroms.

Potassium only has a charge of +1 and a comparatively large diameter of 2.8 Angstroms. Arsenic has high affinity for the zeolite while potassium has almost no affinity for the zeolite.

*What does the following disclaimer mean?*

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

The US Food and Drug Administration (FDA) requires that EVERY supplement on the market carries this disclaimer.

*How much does **Waiora® Natural Cellular Defense** cost?*

The cost of **Waiora® Natural Cellular Defense** varies based on whether the person making the purchase is a DCC Affiliate or Preferred Club Member.

*Where do I find more information on **Waiora® Natural Cellular Defense**?*

For product testimonials, club product profiles, scientific white papers and more, you can visit our blog at [dcclife.com](http://dcclife.com).

*How do I contact the DCC?*

The Dollar Coffee Club Member / Affiliate Services can be reach (Monday-Friday 9am to 6pm EST) toll free at 1-855-528-4821 or via email at [support@javitamail.com](mailto:support@javitamail.com).