



OPTIMUM CHOICES, LLC

Healthy choices for people and pets

Heavy Metals and Bio-Algae Concentrates (BAC)

BAC for heavy metals detoxification

(www.themagicisbac.com/page26-00.html)

Continuing with the remarkable properties of the cell walls found in the algae of bio-algae concentrates, it turns out that the mucopolysaccharides also have another fascinating property: they bind with environmental toxins and carry them safely out of the body.

What kind of environmental toxins?

Heavy metals like aluminum, mercury, cadmium and arsenic.

Pesticides.

PCBs (polychlorobiphenyls)

Many reports have come from Japanese research studies that followed the nuclear catastrophe resulting from atomic bombs that were dropped on the cities of Hiroshima and Nagasaki in 1945 and from Russian studies following the 1986 explosion of a nuclear reactor in Chernobyl. In a report to the General Meeting of the Pharmaceutical Society of Japan on an early study in animals, Ichimura (1973) reported that algae **increased elimination of cadmium**: threefold in feces and sevenfold in urine. Other researchers from Japan showed that it helped **detoxify uranium and lead** (Horikoshi et al. 1979). Certain algae have detoxification potential for similar compounds, such as **dioxin and polychlorinated biphenyls**. (PCBs are chemical compounds used in plastics, insulation, and flame retardants, with potential to cause cancer and liver damage.)

Spirulina (as found in bio-algae concentrates) may help ADHD by removing aluminum, carbon tetrachloride, and other toxins from the body (Torres-Duran et al. 1998; Vadiraja et al. 1998).

- *Herbal Medicine, Healing & Cancer* by Donald R. Yance

It is well known that the build up of heavy metals in the body leads to disastrous health results and some rather frightening diseases such as Alzheimer's disease. Due to its cell wall structure and many other factors, it appears that bio-algae concentrates are also a potent contributor to detoxification.

416 Plateau Parkway, Golden, CO 80403-1533

Phone: 303.271.1649 Toll Free: 866.305.2306 Fax: 303.271.1659

info@OptimumChoices.com <http://www.OptimumChoices.com>

Chlorophyll, the Sheppard of Light in BAC

(www.themagicisbac.com/page10-00.html)

Here is something interesting: chlorophyll is known to help remove heavy metals from your body that have accumulated due to the ingestion of contaminated food products. Certain sea foods are especially known to contain dangerous levels of heavy metals like mercury, but these contaminants are also found in animal products and even non-organic crops. If you've been eating refined foods, you undoubtedly have mercury, cadmium, arsenic, lead, PCBs and other contaminants in your body. The chlorophyll in BAC actually helps remove those heavy metals from your body, which can have seemingly miraculous benefits to your health.

Another common source for contaminants is mercury fillings used by dentists. They call them “silver fillings,” actually, since they do not want to openly admit they’re still putting mercury -- one of the most potent nerve toxins on the planet -- into the mouths of patients. These mercury fillings emit a steady stream of mercury vapor that gets absorbed into your body. Frequently, small bits of these mercury fillings crack, break off, and are swallowed with your food. In this way, nearly all dental patients in America and other “civilized” countries are subjected to routine mercury poisoning at the hands of their dentists.

BAC can help protect you against this mercury by escorting the mercury out of your body before it can do damage. If you take BAC before and after receiving dental work, you will help protect yourself from the toxic effects of mercury fillings. This is especially important if you decide to have your mercury fillings removed, as more and more people are doing. The very process of drilling them out results in a tidal wave of mercury exposure in your body. Consuming BAC offers considerable protection against the mercury bits you inevitably swallow during this procedure.

For example, many people undergo full-scale mercury filling removal. It requires several sessions in the chair, and we recommend using more BAC before and after each session. As a result, you will be much more protected from the ill effects of mercury removal.

Chlorophyll does much more than protect you from mercury, however an important one: it is also a general detoxifier that supports liver function so that your body can do a better job of eliminating toxins from your system.

Are there toxins in your algae?

(www.themagicisbac.com/page40-00.html)

The exact wording that prompted me to answer this question was “There are naturally occurring toxins that can be found in algae that is sold for human consumption. Does your company screen for them and prevent them from being in your products? Thank You, J.”

All foods, fruits, vegetables, fish or meat have the potential to be toxic, to carry toxins. There are thousands of meat recalls occurring every day in the USA. Like all food, algae also have this

potential. Algae occurring in the wild with no controls may be more exposed to toxins than those commercially grown. Algae grown in natural habitats like lakes, ocean or ponds may be more exposed than those grown in controlled hydroponic facilities. The presence or not of toxins or pollutants like mercury in food and in algae depends on many factors; the specific food or algae, geographic location, technologies, experience and knowledge, awareness, care and quality assurance.

The only producer of BAC that I know is likely the world leading authority on algae technology. Dr. Michael Kiriak, Ph.D. managed the largest algae production facilities in the world for many years and has worked more than 30 years with microalgae and their usage for people and animal health. The BAC that I know are verified at many steps in the process; daily during growing, immediately after freeze drying, entering encapsulation and exiting bottling, and independently tested by government and health agencies from time to time.