



### **About Quantum Growth**

Developed by Selvig Environmental ([www.selvigenvironmental.com](http://www.selvigenvironmental.com)) of Jacksonville, FL, Quantum Growth is a liquid suspension of live photosynthetic microbes, providing the ability to convert energy into mass and offset debilitating water pollution events such as red tide or blue-green algal blooms that have beset Southern coastal and fresh water environments among other attributes.

The process works through the old standard:  $E = Mc^2$ , i.e.: electrons. Energy and matter are interchangeable. Further, photosynthetic microbes' quantal efficiency of converting energy (photons) into matter (electrons) has approximately 95 percent efficiency and the microbes can perform this process using any light, not just visible light, such as microwaves, radio waves and all forms of radiation.

By comparison, plant foliage quantal efficiency is approximately 2 percent and plants can only use a narrow range of visible light, with other forms of light damaging the plant. Approximately 30 percent of the energy a plant harvests is consumed repairing radiation damage.

Due to the photosynthetic microbes' unique talent in producing electricity, the microbes have the power to outcompete pathogens, such as the plethora of microbes that are described as Red Tide. The photosynthetic microbes contained in Quantum Growth are target antagonists that kill Red Tide populations by consuming the remains of the pathogens. The photosynthetic microbes contained in Quantum Growth are natural symbionts of plants, providing power to protect and assist in growth. The photosynthetic microbes' ability to produce power enables the fixation of atmospheric nitrogen, transferring this nitrogen directly to plants without pollutants. Photosynthetic microbes also consume excess nitrogen, phosphorus and potassium along with large quantities of carbon dioxide.

The microbes contained in Quantum Growth are naturally occurring, certified organic and safe enough to eat. They have been effectively used both to detoxify pollutants and aid in plant growth globally for more than 20 years.

The product has been successfully approved and used by the California Department of Food and Agriculture, for the treatment of waterways at Dartmouth University and on the Xiba River cleanup project in China, documented by Dr. Timothy Read at the Emory University School of Medicine and certified by the Organic Materials Review Institute (OMRI), among other endorsements. An undisclosed, globally respected golf course superintendent – at his request – at a prominent golf club has touted the Selvigs' work and would be glad to speak one on one.

### **Quick Facts**

- Quantum Growth/Sludge Away photosynthetic microbes eat toxic algae
- QG also outcompetes algae for resources, i.e. it consumes food needed by algae for subsistence, causing it to starve
- No need to refrigerate
- Non-toxic/safe enough to eat
- Affordable
- Easy to use/no special equipment required
- No advanced training needed to use

### **Questions?**

- **Competitors?** There is no current competition with this product, as no other company can mass produce a stable suspension of vegetative photosynthetic microbes.
- **How is the Selvig product unique?** Selvig Environmental/Ecological Laboratories is the only company in the world that can produce, ship and use photosynthetic microbes in a living, active state.
- **Are the large corporations experimenting with a similar product?** Virtually all major corporations in relevant industries are looking for competitive products and have been for 30 years. To date, none have been successful.
- **Who would object to this type of usage?** Competitors in the chemical industry would object to applications of this technology, as would some ill-informed citizens, but that is typical of any revolutionary technology. People fear the unknown. The public was apprehensive, skeptical, or outright fearful over airplanes, television and radio waves, personal computers, synthetic fertilizer, etc.
- **What are the environmental or financial risks?** No environmental risk. These organisms are safe and are supposed to be in natural bodies of water in much higher populations. Marine paint is extremely toxic (by design) and kills naturally occurring organisms, thereby throwing the entire ecosystem out of balance. We are merely restoring those populations and protecting that balance. There is only a financial risk in not using the microbes, as there is an increasing risk that the beaches on the west coast of Florida will begin to shut down, and other bodies of water globally are experiencing issues.

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