

Quantum Growth™

Tom Selvig's Technical Paper

The **Quantum Growth Series** is a liquid complex containing microscopic life. These microorganisms catch photons from the sun. This light energy is then stored as matter in the form of sugar.

$E=mc^2$ Energy = Life

What value is there in using these photosynthetic organisms in growing and nurturing plant life? The world is not sterile, nor was it meant to be. Plant life will share between 20%-40% of the sugars they produce with naturally occurring microscopic organisms or symbionts that grow on their roots and foliage. This sharing process provides the symbionts with energy. This energy is used in part to nourish plants by processing nutrients (NPK and essential elements) that may be chemically bound and otherwise unavailable to the plant.

These symbionts also provide defense and suppression of pathogens. This process takes place in part by competition. These symbionts grow faster than the pathogens, outpacing them for nutrients and space. The above symbiotic process is well known and has been used in agriculture for many years.

The photosynthetic organisms in Quantum Growth provide the benefits of symbiosis. As detailed above, the organisms provide the energy they need to function as well as energy for the plant.

The photosynthetic organisms contained in Quantum Growth prefer life in communities (biofilms). These communities tend to be resilient and self-sustaining. Successful initial inoculation may be maintained with low-dose management.

The photosynthetic organisms in Quantum Growth are naturally occurring, and their ability to store light as sugar requires that these organisms consume CO₂. The carbon is needed for sugar and the oxygen is used for electron transfer. Most CO₂ is recycled by photosynthetic organisms, which grow naturally in water. This means that in addition to improving plant growth and overall health, Inoculaid® is also a powerful tool for reducing Greenhouse Gases.

Benefits:

- Retains water in soil
- Reduces "pounds on ground".
- Keeps irrigation lines clear.
- Non-toxic, non-pathogenic organisms.
- Stable formula. (Shelf life 3-5 Years)
- Safe to tank mix with most chemicals.

