

Overview of our Patented Wavelength Science LED Technology

WHAT DOES IT DO?

Safely and effectively eliminates & continually controls plant pathogens & bacteria, detours plant destructive *pests, while simultaneously increasing photosynthesis to speed up flowering time, decreases harvest time, and increases overall plant health, vigor and yield.

HOW WAS THE SCIENCE DISCOVERED?

After decades of research, plus trial and error testing conducted by a UK based Plant physiologist and his colleagues in the 90's, a general discovery was made that validated that specific wavelengths of light, not part of the UV spectrum, and invisible to the human eye, adversely affected life forms, including bacteria and fungi. The discovery of these wavelength segments of the non-visible light spectrum are required for healthy plant growth, flowering, hormone production and more. These wavelengths conducted in controlled test environments, have proven & documented plant growth acceleration, reduced harvest time, speed up flowering, and produced visually healthier, more robust plants, free of pathogens & bacteria; as well as reduction in yeast and mold counts. These spectrum of wavelengths are safe for humans, animals and all plants, and have the ability to penetrate to the cellular level, destroying the host, never to return. Test results have also demonstrated a reduction in pests thus acting as a *pest deterrent.

HOW IT IS USED IN TRADITIONAL AGRICULTURE/HORTICULTURE

The Ph.D. plant physiologist and his group of scientists that discovered these very specific beneficial elements of this light segment, concluded that certain physiological and biochemical processes in plants (floral, fruits, vegetables) living and harvested that received these Wavelengths: (a) live longer, (b) remain fresh longer, and (c) maintain their own microbial defenses. It was from this original discovery, the Plant Psychologist applied for and was awarded a patent that has become the foundation of the LED Light Science technology later developed for the use of growing and cultivating in door Cannabis and Hemp for Safe, Clean production; eliminating the need for Fungicides, some pesticides and Chemicals.

HOW DO THE WAVELENGTHS KILL THE MICROBES?

By disabling the ability of iron-dependent bacteria to synthesize iron so they no longer feed themselves and die. For most other bacteria and fungi, the radiant power of the science excites electrons and lethally damages the microbes until the cell wall or the mitochondria (the cell's powerhouse) ruptures, causing death. We understand how these microbes differ when it comes to the power level needed and the exposure time necessary to destroy the microbes.

WILL BACTERIA AND FUNGI ADAPT TO OUR SCIENCE IN THE SHORT TERM?

It is very unlikely that microbes will adapt to our science in the short term. The manner in which they are killed will make adaptation very difficult. The science has been developed based on something essential for all life ---- light that comes from our Sun. While pathogens & bacteria have learned to become resistant to fungicides over time, and the strong bacteria survive and mutate, any treatment over the long term could lose its effectiveness. Because our science technology is based on natural, basic elements of life --- light from the sun, we conclude that the ability of fungi and bacteria to adapt the the technology will be very difficult.

