

COMPETITIVE EXCLUSION INSTEAD OF DISINFECTING FOR A HEALTHIER ENVIRONMENT

The Problem with Disinfectants: Superbugs and pathogens (bad bacteria) and their detrimental effects in healthcare, work and home environments are well documented. They are extremely dangerous, and very difficult as well as costly to control. It is increasingly apparent that conventional sanitizers and disinfectants are becoming steadily less effective in their control and management.

Pathogens and other bad bacteria naturally develop resistance and immunity to substances that harm or kill them, in other words specifically disinfectants, sanitizers and antibiotics. The more of these products one uses, the greater the immunity and resistance that is built up by the bad bacteria over time. This makes them even harder to kill the next time.

Nature actually uses good bacteria to naturally control pathogens and bad bacteria, as both need food to survive. However sanitizers and disinfectants kill good and bad bacteria indiscriminately. By disinfecting a surface, good bacteria are destroyed and a zone of clearing is created, which becomes an ideal growing environment for these bad pathogens and superbugs. Additionally as a by-product after disinfecting, an unwanted food source is created, which further serves as food for the colonizing bad pathogens to help them regrow and colonize quicker. By not having good bacteria present, the bad bacteria are not challenged for their food source as happens in nature, and when they regrow after disinfecting, it now happens at an unnatural rate, which is thousands of times faster and the bad pathogens and superbugs now completely colonize the area.

A vicious and unwanted cycle is now created, as the next time one needs to disinfect the area, increasingly more disinfectant is needed, and ever more powerful and costly disinfectants are required to get the surface clean.

The Ecozyme Solution: Ecozyme bio-enzymes are probiotic in nature. They are good and safe bacteria, which naturally occur in nature, and are not genetically modified in any way. In every drop of Ecozyme product, there are tens of millions to billions of bacteria. When they are applied to a surface, these billions of bacteria quickly go in search of food and space, and rapidly out compete the bad bacteria for their food source and space. Soon those billions of bacteria in that one drop of Ecozyme product produce offspring, and their offspring produce offspring, and soon there are trillions and more good bacteria, in fact often too numerous to count. With no food left to survive, the bad bacteria and superbugs starve off and die. This is a well-documented scientific fact applied by scientists to their benefit and advantage in most fields, known as Competitive Exclusion.

Bio-film is a microscopic layer of insulation which protects bad bacteria and creates an ideal zone for them to grow in, while also normally harboring viruses, dirt and other unwanted things. It is extremely difficult to break this bio-film with conventional sanitizers and chemicals. However bio-film is just another food source for Ecozyme's incredible bio-enzyme technology and this film is rapidly and easily consumed and digested. In fact the bad bacteria can sense that their survival is in jeopardy via rudimentary communication with one another, and they become dormant, which further aids in their easy eradication. The amazing thing is that where disinfectants stop working immediately after application, the Ecozyme process can continue for hours, days and more after application, so the effect of a healthy environment is long and lasting.

The eco-friendly components in Ecozyme products have been tested and approved by the Heritage Environmental Programme to be safe and kind to the environment and carry the coveted Eco-Choice logo. Heritage Environmental are members to the international G.E.N. (Global Eco-Label Network) which guarantees the highest environmental performance and efficacy.

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