

Case Study: Greenlyte® Solves Cannabis Infection Issues



Image Caption: Cannabis growers struggle to fight disease in their crops in a safe manner.

A major cannabis grower in Oklahoma recently put Greenlyte®, the powerful hypochlorous acid solution produced by PCT, to work in his grow rooms. After struggling to combat devastating infections and pest invasions of different types for a long time, this grower was becoming quite discouraged and was facing the real threat of losing a huge proportion of his crops to disease. After experimenting with Greenlyte®, this grower was surprised at the extremely positive effects that the solution or product had on a range of different cannabis health threats and plans to use it moving forward to keep his crops healthy.

In the following case study we present the health problems that were facing the client's cannabis plants and the solution that PCT and Greenlyte ® brought to those problems, ultimately saving large percentages of the crop from loss and giving the grower a safe, effective, and sustainable protocol for preventing infection among cannabis plants.

Crop Health Threats

One of the most pressing concerns in the still-young cannabis industry is the need to develop fungicides, herbicides, and pesticides that can eradicate harmful factors while avoiding damage to cannabis plants themselves. As in many Oklahoma grow rooms throughout the United States, our client in Oklahoma was experiencing a number of severe infestations that quickly spread throughout his crop, threatening to ruin each harvest and decimate profit margins.

Powdery Mildew

Identifying powdery mildew by sight is very easy. This fungus, which thrives on a huge range of different crops, has an unmistakable appearance, causing infected leaves to look as though they have been dusted with white flour. The mildew grows in all different environments, but it spreads particularly well in warm, humid environments. This is very bad for cannabis operations, which create an ideal atmosphere for the propagation of powdery mildew.

Eradicating powdery mildew on cannabis has proven to be an extremely difficult puzzle for growers to solve, particularly since the obvious goal is to kill the mildew without harming the underlying leaf surface. Our Oklahoma client had tried a number of different products and services to treat for the powdery mildew that was appearing on his plants, but none were satisfactory.

Other Threats



Image Caption: Powdery mildew is highly destructive to cannabis crops.

While powdery mildew was the primary disease that was driving our client to search for a sustainable, effective infection control solution, there are many other serious threats confronting this and other cannabis grow operations. Hop latent viroid is another disease filling the headlines and discussions between growers, devastating cannabis crops yet not manifesting symptoms until those crops are nearly ready to be harvested.

Estimates place up to 90% of cannabis crops in the state of California as infected by hop latent viroid, making it a top concern for the development of effective eradication techniques. In addition, of course, aphids, mites, and other insects are always a significant threat on the radar of growers who are determined to bring their plants to maturity being destroyed by hungry pests.

With many other fungus and pest infestations to consider as well, keeping cannabis crops healthy is an overwhelming task. One chemical solution may be effective against a particular fungus, yet pose a threat to cannabis plants themselves. Given the insufficiency of current research into the relationships between the cannabis plant, fungal infections, insects, and the potential solutions that could be used to treat them, experimentation is extremely frustrating for growers and can be devastating to crops.

Previous Attempted Solutions

Rather than simply doing nothing and waiting for fungicide and pesticide research to catch up with the cannabis industry, our Oklahoma client did his best to investigate current best practices and implement them with his crop. Included among those efforts was a popular pesticide/fungicide product marketed as effective against both insects such as mites as well as powdery mildew, the primary concern with this particular cannabis operation.

Unfortunately, this product failed to eradicate the infestation completely, and the powdery mildew simply grew back.

Visits by an exterminator were also ultimately insufficient to permanently destroy insect colonies, and before long our grower was back at “square one,” searching high and low for products that could achieve the desired outcome—eradication of harmful factors while preserving the health of cannabis plants.

It was at this point that the grower discovered Greenlyte® , the revolutionary product produced by Paradigm Convergence Technologies (PCT).



Image Caption: Greenlyte® helps ward off a number of devastating threats.

Greenlyte® Solutions

While PCT's hypochlorous acid based disinfectant products have been gaining recognition in a number of different industries in recent years, one of their products has only recently been actively presented as a beneficial solution for the cannabis industry specifically. The unique qualities of Greenlyte® make it an ideal product for use in cannabis grow rooms. Having tried other solutions, both established and new, with little success, our client decided to give Greenlyte® a try with his crop.

Powdery Mildew Eradication

In accordance with the approved process for applying Greenlyte® to a cannabis crop, our client sprayed his plants and kept a close eye on them to see if PCT's solution was any more effective than the alternatives.

He was happy to note that the hypochlorous acid did have an initial dramatic effect, killing existing powdery mildew on the cannabis plants without harming the leaves and stems themselves. While this result was encouraging and a great reason to continue treatments, the more important question was whether Greenlyte® would prevent the fungal infestation from returning.

Long-Term Success

One of the enormously important features of Greenlyte® is the fact that it can be left on plants long-term without posing any health threats to the plants or to the humans that work with them. Taking advantage of this feature, our client put Greenlyte® to the test by leaving it applied to his plants on a longer-term basis. To his great relief, the application continued to hold off powdery mildew infestations, and as time went on, our client began to notice other benefits as well. While more time and precise measurements are needed, Greenlyte® shows great promise in warding off insects such as spider mites.

A multi-purpose hypochlorous acid solution that is effective against multiple fungal infestation types as well as discouraging insect invasion, all while remaining harmless to the cannabis plants, is an incredibly valuable asset and one that many cannabis growers doubted they would get access to until years of research had occurred.

Future Plans

Given the high level of success and lack of negative impact on cannabis plants, our client plans to continue to rely on Greenlyte® to prevent the spread of powdery mildew and insects with his cannabis crops. In the words of the client, using Greenlyte® on a constant basis can be considered “cheap insurance” against some of the most harmful potential factors that destroy cannabis harvests all over the United States.

Greenlyte® and PCT

Cannabis growers who are interested in putting the power of Greenlyte® to work in their grow rooms can request a consultation with staff experts at PCT. With many entrepreneurs feeling that they have run out of options for environmentally friendly, highly effective products to fight disease, Greenlyte® offers a solution that is easy to apply, carries no negative health concerns with use, and accomplishes the goals that growers have for keeping their precious crops healthy up until the date of harvest.