

CASE STUDY

In a first of its kind study, Agrowlyte underwent a one-year field test for efficacy against Powdery Mildew

Highlights:

- Remediates active growing Powdery Mildew
- No change in terpenes or potency
- Leaves no harmful residual



In a first of its kind study, The University of Cannabis Technology has completed a one-year field test of Agrowlyte

The Challenge

Every grower knows how devastating powdery mildew and mold can be. From total crop loss to CFU test failure, it's a problem for all growers. In late 2017, The University became aware of a new method for controlling microbial infections in plants which had never been tested on cannabis. After initial evaluation, The University of Cannabis Technology launched its first ever, one-year product field trial of a product named Agrowlyte, by Danolyte Global. Agrowlyte has a single active ingredient, hypochlorous acid (HOCL). Hypochlorous acid was certified in January of 2019 by the USDA as "USDA No-Rinse Organic Approved". However, initial research conducted by the University revealed that - ***Not all hypochlorous acid solutions are exactly the same.*** The Hypochlorous acid used for our testing was produced in a proprietary machine supplied by Danolyte Global Inc. This machines employs an

electrolytic process to convert a specific blend of natural chloride salts (NOT sodium chloride or table salt) into hypochlorous acid at a concentration of approximately 500 Parts Per Million (PPM). In every other HOCL product we examined, the chloride salt used was sodium chloride. When hypochlorous acid dissipates, it leaves behind the residual salts it was created with. That means solutions made with table salt leave behind table salt that is toxic to your plants. The University recommends you NEVER put table salt on your plants.

Agrowlyte is different. Agrowlyte is a metastable, proprietary formulation of natural chloride salts that are not toxic to plants. Both the formulation and cell to generate Agrowlyte are patent pending

AGROWLYTE
PLANT WASH

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These photos show before and after treatment. Notice in the after photo – scars remain, but the mildew has been eliminated.



BEFORE



AFTER

“By using the Agrowlyte formulation, we had an organic solution to powdery mildew that did not impact the health of the plants or leave behind any residuals. Further testing revealed Agrowlyte had no impact on terpene or cannabinoid content.”

Todd Knupp

Director - The University of Cannabis Technology

Presented at 2019 ICR conference - Colorado State University

Scientific Testing

The scientific testing was performed at High Colorado Farms in Pueblo, Colorado and CannaCraft in Rye, Colorado. Scientific test design, execution and analysis of results were performed by Dr. Matt Wheatley, Ph.D. from The UCANN Tech. Two scientific tests were performed with Agrowlyte.



Dr. Wheatley taking samples.

The first test examined the effect of Agrowlyte on powdery mildew in the grow at High Colorado Farms. In this real-world test, Dr. Wheatley was able to demonstrate the effectiveness of Agrowlyte in eliminating powdery mildew from the test plants in only three sprays over a six-day period. Agrowlyte was applied using an electrostatic sprayer. This is the application method the University recommends for spraying on cannabis.

In the second test, Dr. Wheatley tested the effect of Agrowlyte on cannabinoids and terpenes. At the time of harvest, four buds from the same plant were soaked in Agrowlyte and four control buds were not treated. All eight buds were then placed in the drying room and allowed to dry for ten days. When cannabinoid and terpene profiles were tested, Dr. Wheatley performed a statistical analysis of the results which revealed there was zero statistical significance in test results. Agrowlyte had no effect on cannabinoids or terpenes in the test.

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Parker Walton incorporated Agrowlyte into his grow and cloning operations at CannaCraft. On-Site generation ensures him a limitless supply of Agrowlyte that is fresh and ready to use.



Parker Walton – Owner CannaCraft

“Agrowlyte has replaced every cleaning and disinfecting product we used. It’s a highly effective seed wash, disinfects 100 times better than bleach and requires no PPE. Our CFU tests are routinely 0 CFU’s. Agrowlyte is genuinely one of the most amazing and useful products I have ever used in a grow.”

Parker Walton

Owner - CannaCraft and Walton’s Select

In The Field

Agrowlyte was field tested at CannaCraft. Parker Walton, owner of CannaCraft, used Agrowlyte to effectively:

- Eliminate all mold and mildew in the grow.
- Never fail a single CFU test in over 14 months
- Clean and disinfect all rooms between cycles
- Wash seeds for increased germination
- Clean all equipment after every use
- Eliminate biofilm from fertigation lines/tanks
- More than double the life of air stones
- Prevent any and all cross-contamination
- Deactivate pollen from male plants
- Replace all cleaning and disinfecting products
- Virtually eliminate use/cost of PPE in the grow

Conclusions

The University of Cannabis Technology was able to conclude Agrowlyte is both safe and effective to use on cannabis plants to treat any form of microbial infection without damage to the plant or the cannabinoid and terpene content. We also found a multitude of uses for Agrowlyte and the product proved itself useful time after time. We presented our findings on Agrowlyte at the 2019 Institute For Cannabis Research (ICR) conference at Colorado State University. The ICR conference is the largest academic conference on cannabis in the world.

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