

Increased Harvest Yield through Pathogen Remediated Drying and Post Processing in a Production Cultivation Environment

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INTRO:

The use of ozone and inert gasses during the post-harvest drying of plants when humidity is at a maximum can turn the liability of humid conditions into an advantageous environment for pathogen destruction and removal. The gasses may be used prophylactically during any phase of plant growth to decrease pathogen pressure and consequently improve flower dry weight.

METHODS

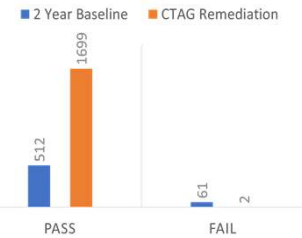
A CTAG RedOx Automated Environmental Gas Intervention System (AEGIS) Machine, was employed for all phases of this study to test its efficacy in improving harvest yields and increasing the ratio of sellable flower to extraction material.

Eight samples were sent for lab analysis both before and after remediation in isolation to affirm the efficacy of both the machine's ability to destroy pathogens as well as preserve cannabinoids.

The RedOx machine was then used in the drying process to treat batches in entire rooms. 1701 Samples

RESULTS

RESULT COMPARISON



The use of ozone gas combined with inert gasses during plant drying increased safe product quantities from 88.09% usable to 99.88% usable



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Data Taken over 4 years, 2 years baseline and 2 years Remediation Tested In Vivo and Post-Harvest Yield Increase of 75% not cited in study due to excessive variables

In Vivo uses

- Irrigation Water
- Cloning
- Ethylene Reduction
- Pathogen Prevention

Post-Harvest Uses

- Pathogen Prevention / Removal
- Inert Gasses for Curing

