

Producing Healthy + Safe Cannabis



Challenges

Producers and suppliers have two basic responsibilities

- The #1 priority is the production of a product that meets regulatory requirements and is safe for human consumption.
- Priority #1 can be successfully achieved by the production of plants and products that have no harmful chemical pesticide residual. This is accomplished by organic treatment from the initial planting through final production including any crop disease treatments.

Pre Planting Problems

Pre-planting problems include the basics

- **Healthy seed:** Be sure your seed supply is certified disease free.
- **Healthy soil:** Be sure that your soil where you plant is initially free of fungi and bacteria.
- **Healthy environment:** If you are growing indoors or in a greenhouse you have better environmental control than outdoors exposed to more variables.

Deadly Diseases Affecting Your Crop

As many as 85+ potential problems have been identified but the most common and most serious include:

- Yellow leaf due to nutrient deficiency
- Powdery mildew
- Gray mold: Botrytis
- Fusarium wilt
- Damping off
- Vector borne issues (Insects)

Yellow Leaf Due to Nutrient Deficiency



Yellowing leaves are a common symptom of many cannabis diseases...but also a symptom of nutrient deficiencies and an unbalanced growing environment.

Simply under-watering or overwatering may be the culprit. It could also be an unbalanced pH, over fertilization and nutrient burn, improper light placement, or extreme weather. It could include a combination of pests that cause the majority of cannabis crop losses. **Pre-treatment of soil with Path-Away® or hydroponically will produce healthier crops.**

Powdery Mildew



Powdery mildew (PM) is a notorious cannabis pathogen that is not hard to identify. It exhibits With a white-grey powdery substance visible on the plant surface. It is extremely good at spreading, usually from the leaves and plant base, to the bud and flowers- where it essentially renders them useless.

Prevention is by far the best way to combat it. PM thrives in cool, humid environments, with overcrowding and too much water. Keeping a sanitary grow space with good airflow and clean equipment is essential. **If prevention fails you, an organic treatment with Path-Away® will produce positive results.**

Gray Mold: Botrytis



Botrytis is a fungus that affects hundreds of plant species, cannabis included. Though this pest can attack every part of the cannabis plant, it is most commonly found on plant buds in the late stage of flowering.

The first signs of a grey mold infection can be seen in the colour and texture of the plant itself. Leaves appear dry and stems become soft and brown. Early grey mold can also present itself as a powdery white substance, that will darken over time to a grey (sometimes even black or purple) fuzz, and eventually a grey-brown slime. **Early recognition and treatment with Path-Away® will save your crop.**

Fusarium Wilt



Fusarium is a soil-dwelling fungus that attacks both at the root and leaf level, blocking the delivery of nutrients within the plant and restricting water flow. Fusarium can cause leaves to wilt, with the distinguishing characteristic of dark spots on the lower leaves, which turn yellow-brown before wilting.

Collapsed leaves will remain attached to the stem, drooping down, all the way up the plant. Upward curling of leaf tips may also be seen. Fusarium also commonly causes root rot, where roots and eventually the stem turn red inside and burst in areas, inviting in further disease-causing agents. **Treatment with Path-Away® has been the most successful way to combat Fusarium Wilt.**

Damping Off



Damping off is a seed and seedling disease caused by a variety of pests, including the *Pythium* species. In seeds, the infection prevents germination, essentially resulting in “dead” seeds that appear soft and dark in color.

In seedlings, a visible browning at the soil line occurs, which eventually leads to a stem that flops over and leaves that yellow and wilt.

You can prevent damping off by following proper sanitation procedures, and making sure your growing medium is “clean” and not oversaturated with water. Taking precautionary measures to ensure the soil is clear of contamination is a vital first step. **Proper pre-treatment of growing medium with Path-Away® will ensure a healthy, robust crop.**

Vector Borne Issues: Insects - Spider Mites



As with any organic farming, fighting pests is one of the trickiest parts of the job- and with cannabis, it is only going to get harder. We will undoubtedly see diseases that will mutate over time.

It is also likely that we will discover new diseases that we haven't had to face before. Not only will these diseases threaten our crop growth, but also their functionality, as some plant diseases can threaten the health of cannabis consumers.

Organic, non-GMO, drug and alcohol free products such as Path-Away® are the future of the cannabis and hemp industry.

What is Path Away®

Path-Away Anti-Pathogenic Solution® is a phyto-chemical compound derived and formulated from plants.

It is:

- ✓ Broad spectrum effective against plant pathogens
- ✓ Certified Input For Organic
- ✓ Non GMO
- ✓ No added chemicals
- ✓ Alcohol free
- ✓ Registered with US Patent and Trademark office #4,032,774

What is Path Away®

Path-Away Anti-Pathogenic Solution is derived and formulated from plants.

It is:

- ✓ EPA, FDA, USDA, EU, JAS Input Compliant
- ✓ Totally soluble
- ✓ Non toxic
- ✓ USP 51 Tested, Proven, Approved
- ✓ Harmless to aquatics, bees and plants when applied as per instructions.
- ✓ Developed in the United States
- ✓ USP-51 Tested, Proven and Approved.

Path-Away® Materials and Methods

Path-Away Anti-Pathogenic Aerosol Solution comes pre-mixed and pre-formulated as required by specific need.

- ✓ Ensures efficacy
- ✓ Ensures quality
- ✓ Ensures ease of application
- ✓ Ensures safety of workers
- ✓ Ensures increase in plant growth
- ✓ Ensures Safety to the earth environment

Safety and Storage

Simple, safe and easy product storage

- ✓ Store in plastic drums or totes
- ✓ Store at room temperature
- ✓ Do not mix with any alkaline materials
- ✓ Non flammable
- ✓ Non reactive
- ✓ Non corrosive
- ✓ Non toxic

All Path-Away® Solution products are both safe to humans and the environment and require no extensive storage precautions.

Some Major Success Stories

- ✓ Effective on pathogen killing New Zealand Kiwi Crop.
- ✓ Effective on pathogens/insects attacking pineapple plantations in The Philippines.
- ✓ Effective on pathogens/insects attacking coconut plantations in The Philippines.
- ✓ Effective on pathogens/insects attacking rice crop in Nigeria.
- ✓ Effective by increasing forage crop in Nigeria by 25%+.

Basic Path-Away® Application Guidelines

Path-Away Solution® Use For Cannabis Cultivation Chart

Area Treatment with Plants		Plant Protectant and Growth Enhancer	
Application	Dilutions	CLONES 15ml/gal	VEG-BLOOM 30ml/gal
Spray/Mist/Fog	1 gallon makes	256 gallons	128 gallons
1 oz treats (1) 2x2 PLANT = 128 Plants/gallon		32,678 clone trays	16,384 clone trays
FOG	1 gal/1200 Sq Ft	288,000 Sq Ft	144,000 Sq Ft



Area Treatment with Plants		Anti-Pathogen / Anti-Viral / Anti-Parasitic / Bactericide / Fungicide		
Application	Dilutions	Prevention 1:2	Control 1:2	Clean-Up As-is
Spray/Fog/Mist/Wipe	1 Gallon makes	3 Gallons	2 Gallons	1 gallon
Spray/Fog/Mist clean	1 oz treats 9.3 Sq Ft	3,600 Sq Ft	2,400 Sq. Ft	1,200 Sq Ft
Wipe clean	3x3 tray	384	256	128
	4x4 tray	225	150	75
	3x6 tray	192	128	64
	4x8 tray	150	100	50

Water Treatment		Bactericide	Algaecide	
Application	Dilutions	Prevention 5ml/gal	Control 15ml/gal	Clean-Up 30ml/gal
Water additive	1 Gallon makes	768 Gallons	256 Gallons	128 Gallons
	Treats (50) gallon res	15 weeks	5 weeks	Flush 128 -1 gal pots

Flower Saver Dunk Treatment

Application	Dilutions
Dunk Treatment	Use As-is
	Treats (x) grams flower

Eliminate Mold/Yeast, Pseudomonas, Powdery Mildew and More

	Pathogen Eradication	
	One (1) Oz	1 Gallon – 128 Oz
7 dry – 14 fresh	224 dry – 448 fresh	896 dry – 1,792 fresh
¼ Oz	½ Lb	2 lbs

Contact Us For Details



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