

MiteXstream™ (a re-imagined pesticide by Black Bird Biotech, Inc.)

EPA Pesticide Registration from the Biopesticides and Pollution Prevention Division of the Office of Pesticide Programs EPA Registration No: 95366-1 Federal Insecticide, Fungicide, and Rodenticide Act

- ✓ MiteXstream™ is **not toxic to honey bees** on contact or by ingestion.
- ✓ MiteXstream™ kills **mites** and similar pests.
- ✓ MiteXstream™ eliminates **molds and mildews**.
- ✓ MiteXstream™ is derived from **100% plant-based** ingredients.
- ✓ MiteXstream™ is comprised of **100% food-grade** ingredients.
- ✓ MiteXstream™ is **field tested and lab proven**.

MiteXstream™ is a pesticide, but it is not, as formulated, a poison – it is a pesticide re-imagined. With chemical action created by a proprietary technology, MiteXstream™ physically destroys pests and their eggs, as well as molds and mildews.

MiteXstream™ is a **minimum risk biochemical miticide** that controls mites, *Eotetranychus spp.*, *Tetranychus spp.* and *Panonychus spp.*, including spider mites, two-spotted mites, pacific mite, willamette mite, citrus rust mite, broad mite and the European red mite; molds and mildew. MiteXstream™ is ideal for mite control in integrated pest management. Use MiteXstream™ alone or in rotation with other miticides.

State Registration.

MiteXstream™ is registered in 46 states and D.C. Applications in Florida, Hawaii and Indiana have been pending since 2021. An application will be filed in California in the near term. A review time of approximately 8 months is expected.

Honey Bee Testing - Contact Toxicity and Oral Toxicity

Independent lab testing has proven MiteXstream™ to be “NOT TOXIC” to honey bees when contacted topically or when ingested.

Performing Lab: STILLMEADOW, Inc., Sugar Land, Texas.
Study Director: Cole Younger, PhD., Entomologist, STILLMEADOW, Inc.

MiteXstream: Honey bee, *Apis mellifera*, Acute Contact Toxicity Limit Test

Conclusion: With a **mortality of 0% after 48 hours**, MiteXstream was non-toxic when administered by contact to honey bees.

MiteXstream: Honey Bee, *Apis mellifera*, Acute Oral Toxicity Limit Test

Conclusion: With a **mortality of 0% after 48 hours**, MiteXstream was non-toxic when ingested by honey bees.

Efficacy Testing.

Independent lab testing has proven MiteXstream™ to be safe and effective in controlling or eradicating spider mites and powdery mildew. ([Lab Report](#)).

Performing Lab: Botanical Research in Motion (BRIM), Vancouver, British Columbia
Study Director: Dr. Fawzia Afreen¹

Report Title: “MiteXstream™ - a new, safe, environmentally friendly and the most effective biopesticide for controlling pests in Cannabis”

Conclusion: “To summarize, the major findings of the study are: MiteXstream™ biopesticide can be a safe alternative of chemical pesticides and to achieve the maximum benefit the use of full strength concentration without any addition of surfactant is recommended. It can effectively control or eradicate the spider mites and powdery mildew as well as work as a preventative measure when applied at the appropriate dose, time and stage. The use of MiteXstream™ is not limited to Cannabis it can be used to control pest infestation in a wide range of plants.”

Independent Lab Testing—Cannabis.

Based on independent lab testing, users of MiteXstream™ are able to treat their cannabis (marijuana) plants through the day of harvest and still satisfy state-level pesticide testing standards.

Stillwater Labs, an Olney, Montana-based medical marijuana testing facility, concluded its testing of a cannabis sample treated only with MiteXstream™. In addition to testing for pesticides prohibited by the State of Montana, Stillwater Labs also tested for pesticides prohibited by the State of Oregon, the most stringent state-level marijuana testing standard. The results of this testing, presented as being measured in parts per billion (PPB), are set forth below.

Montana Pesticide Testing Standard

Analyte	Montana Allowable Limit (PPB)	MiteXstream Treated Sample (PPB)	Analyte	Montana Allowable Limit (PPB)	MiteXstream Treated Sample (PPB)
Abamectin	500	0	Imidacloprid	400	0
Acequinocyl	2000	0	Myclobutanil	200	0
Bifenazate	200	0	Paclobutrazol	400	0
Bifenthrin	200	0	Pyrethrin I	1000	0
Chloromequat Chloride	1000	0	Spinosyn A	200	0
Cyfluthrin	1000	0	Spinosyn D	200	0
Daminozide	1000	0	Spiromefesin	200	0
Etoxazole	200	0	Spirotetramat	200	0
Fenoxycarb	200	0	Trifloxystrobin	200	0
Imazalil	200	0			

1 Dr. Fawzia Afreen possesses 20 years of experience in plant horticulture, plant tissue culture and plant production. In addition, Dr. Afreen holds three international patents, has published over 40 articles in peer-reviewed international journals and has published two books.

Oregon Pesticide Testing Standard

Analyte	Oregon Allowable Limit (PPB)	MiteXstream Treated Sample (PPB)	Analyte	Oregon Allowable Limit (PPB)	MiteXstream Treated Sample (PPB)
Abamectin	500	0	Clofentezine	200	0
Acequinocy	2000	0	Cypermethrin	1000	0
Bifenazate	200	0	Diazinon	200	0
Bifenthrin	200	0	Dichlorvos	100	0
Chlormequat Chloride	N/A	0	Dimethoate	200	0
Cyfluthrin	1000	0	Etofenprox	400	0
Daminozide	1000	0	Fenpyroximate	400	0
Etoxazole	200	0	Fipronil	400	0
Fenoxycarb	200	0	Flonicamid	1000	0
Imazalil	200	0	Fludioxonil	400	0
Imidacloprid	400	0	Hexythiazox	1000	0
Myclobutanil	200	0	Kresoxym-methyl	400	0
Paclobutrazol	400	0	Malathion	200	0
Pyrethrin I	1000	0	Metalaxyl	200	0
Spinosyn A	200	0	Methiocarb	200	0
Spinosyn D	200	0	Methomyl	400	0
Spiromefesin	200	0	Oxamyl	1000	0
Spirotetramat	200	0	Permethrins	200	1*
Trifloxystrobin	200	0	Phosmet	200	0
Acephate	400	0	Piperonyl Butoxide	2000	0
Acetamiprid	200	0	Prallethrin	200	0
Aldicarb	400	0	Propiconazole	400	0
Azoxystrobin	200	0	Pyridaben	200	0
Boscalid	400	0	Spiroxamine	400	0
Carbaryl	200	0	Tebuconazole	400	0
Carbofuran	200	0	Thiacloprid	200	0
Chloantraniliprole	200	0	Thiamethoxam	200	0
Chlorpyrifos	200	0			

* Noted in the report of Stillwater Labs as possible ambient environmental contamination.

EPA Testing.

To gain biopesticide certification by the EPA, MiteXstream™ was required to complete two standard tests: Acute Toxicity Test and Storage Stability Test. These tests were performed by an independent third-party laboratory, STILLMEADOW, Inc., Sugar Land, TX, and, together, lasted approximately 3 months.

Acute Toxicity Test.

This test is, in actuality, a suite of six tests: Acute Oral Toxicity, Acute Dermal Toxicity, Acute Inhalation Toxicity, Acute Eye Irritation, Acute Dermal Irritation, Guinea Pig Skin Sensitization. The name of each of these sub-tests identifies its specific testing focus. In each test case, MiteXstream™ **passed without issue**. In fact, though not recommended, small amounts of MiteXstream™ concentrate can be ingested without negative effects.

Accelerated Storage Stability with Corrosion Characteristics Test.

Because it was determined that MiteXstream™ was qualified to undergo an abbreviated testing regimen, this test lasted for 14 days. The test was conducted with MiteXstream™ in its intended commercial packaging; was conducted in compliance with Good Laboratory Practice standards; and was conducted at 54 C +/- for 14 days.

The testing also determined the deterioration or degradation of the MiteXstream™. Specifically, an analysis was made of physical changes, such as separation or clumping, and any other changes that would interfere with the usefulness or safe handling. The testing determined the deterioration or degradation of the packaging/container — **Results: None.**

Origin Story.

The President of Black Bird Biotech, Fabian Deneault, as a licensed grower of medical marijuana (MMJ) in the State of Montana encountered infestations of spider mites on his plants. To combat the spider mites, Mr. Deneault developed the MiteXstream™ formulation.

From Two Years of Testing to First Customer.

Dylan Matteson, owner of We'D, a Montana-licensed Medical Marijuana Dispensary with locations in three cities, recently told Black Bird Biotech, "Following nearly two years of testing MiteXstream™ in our grows, and watching the test plants grow free of spider mites, molds and mildews, and grow more robustly, we are excited to be able to purchase MiteXstream™ and use it in all of our indoor grows, knowing that we can safely apply through the day of harvest and still pass state testing. And being the first official MiteXstream™ buyer makes it even more special. **This is an amazing product, bottom line.**"

Summary.

Black Bird Biotech has accelerated its planned 2022 sales and marketing efforts that are intended to bring much-needed crop protection to the dynamic cannabis industry, one that is expected to grow to \$45 billion by 2025 [Source: Brightfield Group]. Black Bird Biotech has also initiated efforts to establish international sales channels, including in China, Hong Kong and neighboring countries (a focus on tea and tobacco crops) and Central American countries (a focus on banana and coffee crops), where annual mite damage to crops can be extensive and expensive to growers and farmers.

As the developer of MiteXstream™ and President of Black Bird Biotech, Mr. Deneault knows of no competitor that delivers the unique performance standards of MiteXstream™ and remains convinced that MiteXstream™ will quickly prove to be a game changer for a great number of crops. Mr. Deneault recently stated, "We are excited to get this great product into the hands of growers and our country's great farmers, as well as farmers around the world."

Black Bird Biotech, Inc.
a publicly-traded company
[Symbol: BBBT]