

Sample Received: 7/13/2018

Report Date: 7/18/2018

## CN-RAW1-001

Pesticide Test Report

Item Type: Tincture

Item Notes: Non-standard method; for R&D purposes only

METRC No. 1A400071267E6AD0000002569

Sample **GH697H-T**<sub>x</sub>

Measured Concentration in Parts Per Million (PPM) by LC-MS/MS Analysis

|                  | Abamectin <sup>a</sup> | Azoxystrobin | Bifenazate | Etoxazole | Imazalil | Imidacloprid | Malathion | Myclobutanil | Permethrin <sup>b</sup> | Spinosad <sup>c</sup> | Spiromesifen | Spirotetramat | Tebuconazole |
|------------------|------------------------|--------------|------------|-----------|----------|--------------|-----------|--------------|-------------------------|-----------------------|--------------|---------------|--------------|
| <b>NONDETECT</b> | N/D                    | N/D          | N/D        | N/D       | N/D      | N/D          | N/D       | N/D          | N/D                     | N/D                   | N/D          | N/D           | N/D          |
| MDL              | 0.018                  | 0.001        | 0.002      | 0.004     | 0.007    | 0.002        | 0.010     | 0.003        | 0.002                   | 0.002                 | 0.008        | 0.008         | 0.003        |
| LLOQ             | 0.030                  | 0.008        | 0.008      | 0.008     | 0.015    | 0.015        | 0.015     | 0.015        | 0.008                   | 0.008                 | 0.015        | 0.008         | 0.008        |
| Action Level     | 0.070                  | 0.020        | 0.020      | 0.010     | 0.040    | 0.020        | 0.050     | 0.040        | 0.040                   | 0.060                 | 0.030        | 0.020         | 0.010        |

GH697H-T

N/D = Not Detected. The Method Detection Limit (MDL) is usually defined as the lowest quantity or concentration of a component that can be reliably detected (but not necessarily quantified) with a given analytical method

< LLOQ = Concentrations are below the Lower Limit of Quantitation (LLOQ) for this assay. LLOQ is defined as the lowest concentration at which the analyte can not only be reliably detected, but at which some predefined goals for bias and imprecision are met. The Upper Limit of Quantitation (ULOQ) is set at 1.5 PPM

Action Level = Concentrations in cannabis flower and trim below these limits will be deemed acceptable by the State of Colorado, after regulations come into effect

These results and our pesticide quantitation methods for cannabis flower and trim are certified by the State of Colorado. Other sample types are tested for R&D purposes only

<sup>a</sup> Mixture of Avermectins B1a & B1b; <sup>b</sup> Mixture of *cis*- & *trans*- isomers; <sup>c</sup> Mixture of Spinosyn A & Spinosyn D

Authorized by: Anna Ettinger, Lab Director



**PESTICIDE TESTING**

The Colorado Department of Revenue - Marijuana Enforcement Division (MED) is planning to require pesticide testing of plant material. This pesticide testing aims to protect cannabis consumers from harmful health effects associated with these substances. The preliminary list of pesticides planned to be enforced by the MED is shown opposite.

**RM3 LABS PESTICIDE TESTING METHODS**

At Rm3 Labs we use a testing methodology known as Liquid Chromatography-Tandem Mass Spectrometry or LC-MS/MS. This method is widely used in the environmental, food and pharmaceutical industries to analyze for product or environmental contamination. For each test, the client provides us a small sample of the product. We process the sample with solvents and sorbents to remove matrix interferences and inject this sample into the LC-MS/MS system for chemical analysis.

**THE LIMITATIONS OF OUR TEST METHODS**

We do not test an entire "batch" of product; we only test the sample provided by the client. When testing cannabis plants, we ask for as representative a sample as possible; however, it is possible that the product received by a consumer may be materially different from the sample we've tested.

Rm3 Labs tests for pesticides planned to be specified in the MED contaminant testing regulations only and therefore certain pesticides may be present other than the ones listed in this report.

There are currently no established protocols for marijuana testing in the U.S. As a result, each lab uses its own procedures, and results from different labs may not be directly comparable.

Results of our tests, and this report, may be used or displayed only by the client and only in connection with the batch of product from which the test sample was taken. By submitting a sample for analysis, the client has represented that product from which the sample has been taken is being held by the client in full compliance with Colorado state and local marijuana laws, and such product or any product made therefrom will only be offered for sale in compliance with such laws.

**PROPOSED INITIAL PESTICIDE TESTING LIST**

**Class: Fungicide**

| <u>Common Name</u>                | <u>Trade Name(s)</u>                                    |
|-----------------------------------|---|
| Azoxystrobin                      | Abound, Quadris, Heritage, Stadium                      |
| Imazalil<br>(a.k.a. enilconazole) | Bromazil, Deccoziel, Fungaflor, Freshgard, and Fungazil |
| Myclobutanil                      | Eagle 20, Eagle 40, Rally                               |
| Tebuconazole                      | Folicur, Toledo   |

**Class: Insecticide/Miticide**

| <u>Common Name</u>                   | <u>Trade Name(s)</u>            |
|--------------------------------------|---------------------------------|
| Abamectin<br>(Avermectin B1a & B1b)  | Agri-Mek, Avid, Lucid, Timectin |
| Bifenazate                           | Floramite, Acramite, Prevamite  |
| Etoxazole                            | TetraSan™ 5 WDG                 |
| Imidacloprid                         | Merit, Montana, Admire, Mallet  |
| Malathion                            | Malathion, Numerous             |
| Permethrin<br>(cis- & trans-isomers) | Ambush, Pounce, Numerous        |
| Spinosad<br>(Spinosyn A & D)         | Blackhawk, Bulls-Eye            |
| Spiromesifen                         | Oberon, Forbid, Judo            |
| Spirotetramat                        | Movento, Ultor                  |