



## Portable Precision Cannabis Testing

### Introduction

As the cannabis industry continues to rapidly expand there is an ever-growing concern for public safety. Producers, processors, retailers, regulators, and consumers have a need to know the consistency and potency of cannabis products for marketing and consumption purposes. There is also a critical need to consistently monitor for harmful pesticides and heavy metals.

Using its proprietary technology FluroTech's primary objective is to help the cannabis industry monitor the quality and safety of their products. Their CompleTest™ cannabis testing device delivers speed, sensitivity, and accuracy that is both affordable and portable. CompleTest™ makes accurately testing, monitoring, and labeling flower and concentrates easier than ever.

### Background

With an experienced technology development and management team FluroTech brings their expertise to the CompleTest™ portable testing device. The Company is based in Calgary, Alberta.

The Company's Director, CTO and Co-Founder, Dr. Prenner is a professor at the Department of Biological Sciences at the University of Calgary. He is experienced working in collaboration with industrial partners to successfully commercialize technology. He holds a PhD in Biophysical Chemistry and has over 28 years of expertise in fluorescence spectroscopy. He has two U.S. patents for antimicrobial peptides and optic filters. Dr. Prenner's expertise in fluorimeters is the basis of the CompleTest™ technology. The CompleTest™ is a type of fluorimeter: a device that can detect and measure the amount of specific chemicals or molecules in a sample. The improved detection sensitivity of the CompleTest™ allows the user to reduce the size and overall quantity of samples consumed for testing purposes, thereby reducing associated costs.

He is partnered with Co-Founder and Vice President of Research, Dr. Kirat Singh, PhD. Dr. Singh holds a PhD in physics and specializes in optics and device design. He has worked at highly regarded research institutions in Europe and Canada and holds 14 patents. Drs. Prenner and Singh have collaborated for more than a decade and bring significant technical experience to FluroTech.

Company advisors include Dr. Raimar Loenbenberg who is an established scientist of pharmaceutical sciences at the University of Alberta. His lab has worked extensively with cannabis and has devised analytical assays and extraction methods for various cannabinoids. He is currently a member of the US Pharmacopeia Dietary Supplement Expert Committee, a federal body responsible for assisting the FDA and other related parties in developing monographs, or guidelines, related to botanical dietary supplements and herbal medicines.



## Cannabis Industry

In the US, 30 states now support medical marijuana programs and 9 states have legalized adult use. Yet, the cannabis industry has remained outside of federal control. Therefore, an absence of federal guidance when it comes to cannabis testing has led states to develop their own approaches and requirements in the interest of public safety. Even if the US government should change their position as it relates to cannabis, testing will still remain an important part of commercial cultivation and retail compliance. In Canada, it is expected to be federally legal by July 2018. As it becomes legal, the Canadian government will also want to know consumer protections are in place – which can only be achieved through testing.

Testing is essential for two primary reasons: First, in determining the composition of the product which includes percentages of THC and CBD, as well as the precise potency of each. Second, in detecting the presence and levels of harmful substances including pesticides and heavy metals. Some cultivators use synthetic pesticides such as Eagle-20 (myclobutanil) to combat cannabis pests, but these are no longer compliant with state regulations put in place for consumer safety.

Cannabis producers are required to test their products in order to be cleared for sale. They rely on expensive third-party commercial laboratories to fulfill their testing needs which are often time-delayed. These current testing processes are cumbersome in light of increased public demand for cannabis coupled with tighter government regulations relating to the standards of production. As a result, cultivators, processors, retailers, regulators, and end-users need a fast, sensitive, and cost-effective method to measure and provide assurance of content, strength and safety.

## CompleTest™ by FluroTech

The CompleTest™ is more sensitive than any other test on the market. It can provide accurate and consistent results each time it tests a given sample. The application-specific fluorimeter lets the user test for exactly what they need to identify. Its portability allows great flexibility for where and what to test. This includes testing right at the plant in a grow zone.

The CompleTest™ consists of the testing device and consumable testing kits. Together they contain the components and reagents needed to carry out testing of the extracted cannabis materials using the fluorimeter and cartridges for the detection of the major attributes of cannabis. The results of the test are then relayed to a proprietary tablet application.

There are no other testing products using the same process as CompleTest™. FluroTech is the only testing company with this type of proprietary technology. The CompleTest™ delivers a sensitive, in-house “real-time” testing solution for a fraction of the cost of known competitor products. Additionally, no technical expertise is needed and there is no exposure to any harsh chemicals during the testing process.



## Diverse Utilization

FluroTech brings a range of value propositions to the marketplace with the CompleTest™. Whether it is composition and potency testing; testing for harmful pesticides; to roadside and industrial testing. Cultivators, processors, retailers and government agencies can all benefit from this device and be completely confident in the test's findings.

## Summary

CompleTest™ by FluroTech has the potential to be a game-changer for cannabis cultivators, retailers, government agencies, and consumers. They can now conduct their own reliable product tests and benefit from the speed, accuracy, and affordability of CompleTest™. CompleTest™ testing can be done on-site thereby reducing the number of samples that need to be hand-delivered or shipped for testing in specialized labs. The CompleTest™ can be valuable at every stage of growth in a cultivation facility, in retail stores during its entire shelf-life, and from time of purchase until final consumption, to maintain quality control.