

Testing Services Available Through CannaMetrix, LLC

CannaMetrix, LLC offers a testing platform for determining the potency of cannabis extracts, synthetic cannabinoids and terpenes, and blends of cannabinoids. Although state regulatory requirements currently do not include direct proof of product potency, but rather, rely on inferences of potency from chemical composition analyses, our goal is to provide the industry with rapid and relevant potency testing methods.

Potency of cannabis-containing products is a biological phenomenon that arises from the sum of cellular responses throughout the tissues in the human body known as the entourage effect. The large diversity of cannabinoids and terpenes that can evoke responses throughout the human body and make up the major and minor constituents in cannabis extracts can have additive, synergistic or inhibitory interactions, leading to entourage effects that determine the actual or perceived potency of products.

This concept, which is the corner stone of the Company's patent, has not been fully appreciated by the industry. Consequently, testing methods that determine potency using endocannabinoid biomarkers have not been prioritized during product development and sales. Instead, governments and the industry adopted chemical testing methods to determine percent cannabinoid composition that were historically in place for the purpose of regulating psychotropic substances such as Δ^9 THC, long before other cannabinoids became part of the public conversation.

CannaMetrix received a patent in October 2023 covering human cell-based potency testing as an industrial method for determining biological potency of cannabinoids. Products that are tested for the potency in human biology, their chemical composition analysis and toxic substance testing will inform product developers and consumers as to how major and minor cannabinoids may manifest their potency in the consumer. As a result, commercialization of products that have been validated by this next generation of testing will have greater market share through consumer confidence and product loyalty.

Standard testing (the E₅₀ Assay): CannaMetrix is scheduled for receiving and testing controlled substances. Customers seeking research that will differentiate their products can have extracts, tinctures or dry powder tested for potency using the human endocannabinoid system.

Our potency testing methods also can be used to demonstrate product stability and shelf life.

Our potency assay will be ideal for comparing cannabis cultivars/chemotypes as a measure of the changes in potency due to plant breeding and genetic engineering programs and for validating field-to-field, grow-to-grow and extract batch-to-batch consistency.

What we need for our testing: Only 100 microliters of liquid or 25 micrograms of powder will be required for testing. These should be shipped in leak proof vials by courier. In addition, the chemical composition analysis should be sent to CannaMetrix by email. All shipments must have prior approval by CannaMetrix. It is highly recommended that customers contact CannaMetrix to discuss and plan for their testing requirements and pricing.

Turnaround time: We cannot guarantee the turnaround time for our testing, but typical testing and a final report preparation will be completed in seven days.

Receivables: All biological potency testing will be performed in triplicate using a range of product doses along with select pure cannabinoids as quality controls for the method. The customer will receive the potency testing data along with a narrative describing the data and its interpretation. All products that are not consumed in testing will be destroyed.

We welcome inquiries for service contracts and bulk testing.

We welcome inquiries regarding product endorsement of CannaMetrix potency testing and pricing.

Other services: We offer a suit of custom molecular, cell and biochemical services including design and development of boutique cell-based assays for potency, toxicity and drug target validation. Please see our Capabilities Statement at our website: <https://cannametrix.org/>.