Cannabis

A rapidly expanding analytical field

Potency

Potency comes as a result of cannabinoids. Approximately 120 plant derived cannabinoids have been identified, most notably:
- Tetrahydrocannabinol (THC), the psychoactive component
- Cannabidiol (CBD), the non-psychoactive component exhibiting medicinal properties

Terpenes

Terpenes are attributed to the flavor and fragrance of cannabis. Medicinally, these are being investigated and proved to act in synergy with cannabinoids when treating conditions such as inflammation, depression, anxiety, epilepsy and cancer, as well as showing activity as a fungicide and bacicide.

Heavy Metals

Soil contamination with heavy metals such as arsenic, lead and mercury, is a concern in all crop growth and poses severe danger to human health. Cannabis in particular accumulates heavy metals and must be tightly monitored.

Residual Solvents

Cannabis concentrates and extracts can be obtained from the plant using solvents. These must be tested to ensure solvent levels do not exceed levels deemed to be harmful to consumers health.

The capacity for retention of pesticides in cannabis crops is high. Therefore crucial that analytical monitoring of pesticide levels in cannabis takes place in order to guarantee consumer safety and meet testing standards for regulatory bodies.1

Mass Spectrometry

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Agilent solutions are at the forefront of research and analytical screening efforts to accurately quantify medicinal and recreational cannabis. States that have passed laws permitting usage of medicinal and recreational marijuana are now requiring rigorous testing of cannabis for quantification of contaminants. From routine analysis to cutting edge research, Agilent's portfolio of solutions work together seamlessly for maximum efficiency and performance.

As the global innovator of laboratory technology, Agilent CrossLab has created the ultimate, collaborative suite of world-class services, supplies, and software depended on by more than 260,000 labs around the globe.

Agilent CrossLab

Visit www.agilent.com/chem/cannabis

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Agilent products and solutions are intended to be used for cannabis quality control and safety testing in laboratories where such use is permitted under state/country law.