APPLIED GENOMICS

IMPROVE THE EFFICIENCY OF YOUR CANNABIS TESTING

CANNABIS POTENCY ANALYSIS | PESTICIDE ANALYSIS | MYCOTOXIN TESTING | MICROBIAL TESTING

For research use only. Not for use in diagnostic procedures.

Automated Cannabis Testing Solutions

PerkinElmer®
For the Better

JANUS® G3 WORKSTATIONS

JANUS® G3 WORKSTATIONS

PerkinElmer's portfolio of JANUS® G3 workstations is optimized for the automation of your cannabis product quality and safety analysis and delivers the flexibility to meet your current and future needs. PerkinElmer's team of application scientists have developed methods allowing the JANUS® G3 workstation to automate primary sample transfer and sample preparation for:

CANNABIS POTENCY ANALYSIS | PESTICIDE ANALYSIS | MYCOTOXIN TESTING | MICROBIAL TESTING

This library of automated methods gives the JANUS® G3 liquid handler the flexibility to automate your cannabis testing processes so you do not need to buy a different liquid handler to automate each test. Additionally, with four different models to choose from, a JANUS® G3 workstation is available to meet your throughput requirements and eliminate your cannabis sample preparation bottlenecks.

By automating with a JANUS® G3 workstation your lab will also be able to:

- Improve compliance with seed to sale sample traceability
- Improve reproducibility
- Eliminate redundant procedures performed by techs
- Integrate with routine sample handling systems such as centrifugation, nucleic acid purification, HPLC, and LC-MS/MS

Provides One Source for Your Cannabis Testing Instrumentation

Automated methods for the JANUS® G3 workstations are available for primary sample transfer and sample setup for PerkinElmer's analytical instruments and testing methods, which have been awarded "Emerald Test" badges for proficiency in cannabis testing. By automating your cannabis testing with a JANUS® G3 workstation you can be assured your entire workflow will work together to deliver the results you need.

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Automate Microbial Testing of Cannabis

Medicinal Genomics' PathoSEEK® microbial safety test uses qPCR to identify bacteria and fungus and is validated on a variety of cannabis matrices. The JANUS® G3 workstations allow for easy automation of plant genomic DNA extraction and microbial testing workflows. In collaboration with Medicinal Genomics, PerkinElmer's application scientists are automating the Medicinal Genomics® SenSATIVAx® Plant/Microbial DNA purification kit and PathoSEEK® microbial safety testing platform on the JANUS® G3 workstation. With four different models to choose from, a JANUS® G3 workstation is available to meet your throughput requirements and eliminate your cannabis sample preparation bottlenecks.

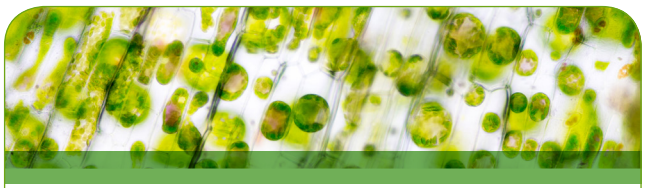
Automating Medicinal Genomics' PathoSEEK® microbial safety test with a JANUS® G3 workstation:

- Eliminates user errors
- Saves time and labor costs
- Increases throughput
- Obtains more consistent results
- Improves sample tracking
- LIMS compatibility

Providing Efficient and Reproducible Extraction and qPCR Plate Preparation Enables Cost-effective and Reliable Microbial Testing

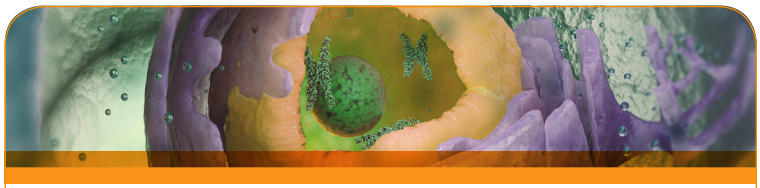
Improve Cannabis Health and Production Yield

Microbes play a major role in cannabis ecology by providing a variety of benefits including nitrogen fixation, production of growth stimulants, improved water retention, and suppression of root diseases. Understanding how these microbes interact with the cannabis plant and its environment can improve plant health and production yield. 16S and 18S ITS rRNA sequencing are common methods used to identify and compare bacteria or fungi present within a given sample.



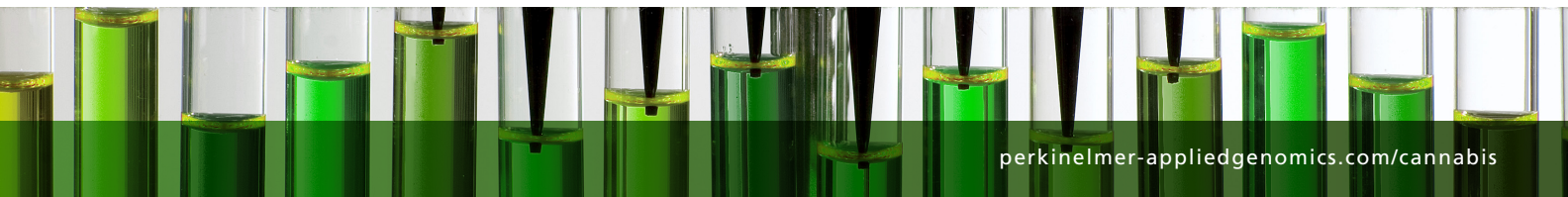
Bacterial Profiling in Plant Samples

Bacterial profiling in plant samples can be difficult because of the homology between bacterial 16S rRNA and chloroplast 16S rRNA. The NEXTFLEX® 16S V5 – V6 Amplicon-Seq Library Prep Kit prevents the chloroplast 16S RNA gene from being amplified during library prep making it ideal for bacterial profiling of plant samples.



Profiling of Fungal & Micro-Eukaryotic Organisms

The ease of performing library preparation and the ability to multiplex up to 384 libraries makes the NEXTFLEX® 18S ITS Amplicon-Seq Kit a convenient and powerful method to profile eukaryotic communities.



Improve the efficiency of your cannabis testing with PerkinElmer's complete workflow solutions:
perkinelmer-appliedgenomics.com/cannabis

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