



# **TURNAROUND TIME MATTERS: CANNABIS TESTING WITH RESULTS IN JUST 6 HOURS.**

**Discover new innovations to our  
class-leading platform**

# RESULTS IN 6 HOURS. INNOVATION WITHOUT END.

Since 2017, PathogenDx has delivered game-changing technological innovation in Cannabis testing. Today, over 100 laboratory partners have standardized on a testing platform that delivers high certainty and specificity in testing in six hours or less with no need for enrichment. And now, with our unique Microarray now offered in a 96-well array format, the advantages are even greater. Discover all the advantages of working with us.

## **ULTRA-RAPID, ULTRA-EASY TESTING TO DRIVE NEW EFFICIENCIES.**

- Ultra-rapid detection of the pathogens that drive complexity and crop loss
- Quantification of known pathogens in states where standards are set
- Preventive Environmental Monitoring (PEM) to identify and redress sources of contamination
- Solving the Live Vs. Dead DNA issue in testing
- Creating new cost efficiencies from the laboratory to the field

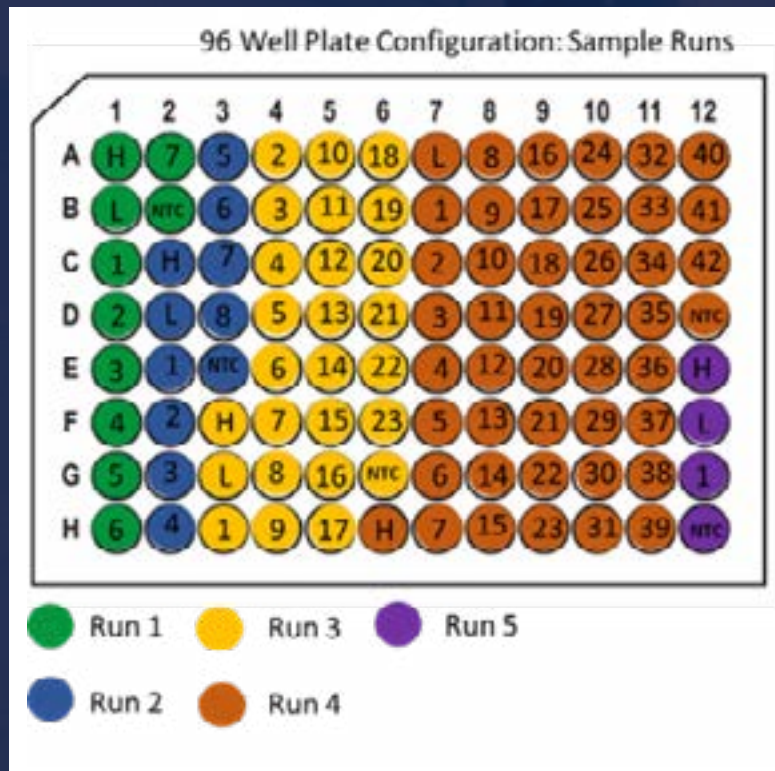


**IT'S NOT JUST ABOUT THE  
WORLD'S FASTEST CANNABIS  
TESTING, IT'S INCREASED LAB  
THROUGHPUT, LOWER COSTS  
AND BUSINESS BEST PRACTICES.**



## ZERO WASTE:

Use only the wells you need per run, re-use the rest of the plate with no sunk cost.



# 96 WELLS. COUNTLESS IMPROVEMENTS.

PathogenDx harnesses the power of DNA science to deliver accurate, ultra-rapid pathogen detection, without the need for sample purification, quantitation, or quality analysis. Our technology reduces as many as 20 steps versus current qPCR methods, delivering results in as little as six hours while nearly eliminating false positives.

Now, we've moved from a 12-well array to a new 96-well array. The transition brings the Cannabis testing industry up to the same industry standard as the Food, Agriculture and Diagnostic sectors in terms of a universally adopted and respected media for testing.

## SEALED WELLS—AN INDUSTRY FIRST!

With the 96-well plate, labs will no longer incur costs on unused wells. The new plate has foil over every well, and depending on the number of samples you receive, your lab can run only that number on that day—then continue on your next shift.

## IMPROVED PERFORMANCE TOO

Another obvious advantage of the new 96-well array is the added certainty it brings to your overall testing operations. Given the opportunity to redesign media, we naturally designed around higher-quality glass to enhance specificity and imaging capabilities.

Available for

**Detect**x

**Quant**x

**Enviro**x

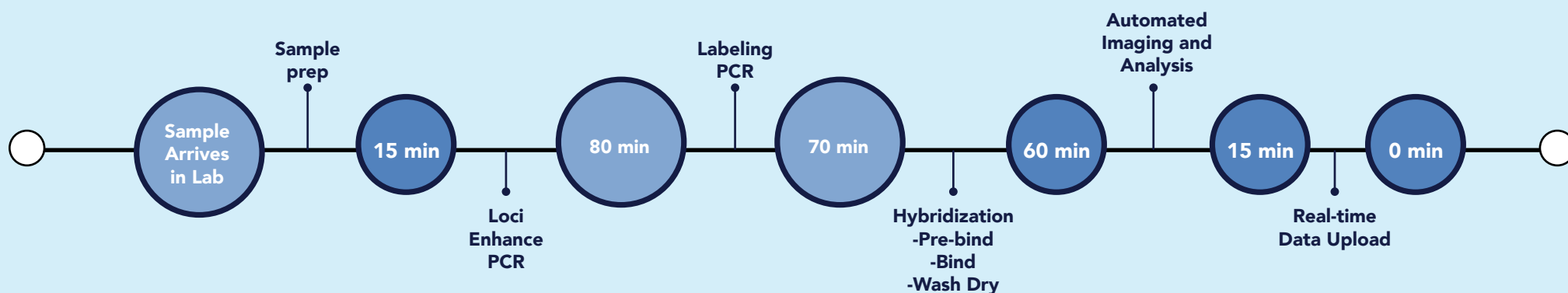


## 96-WELL MICROARRAY ADVANTAGES:

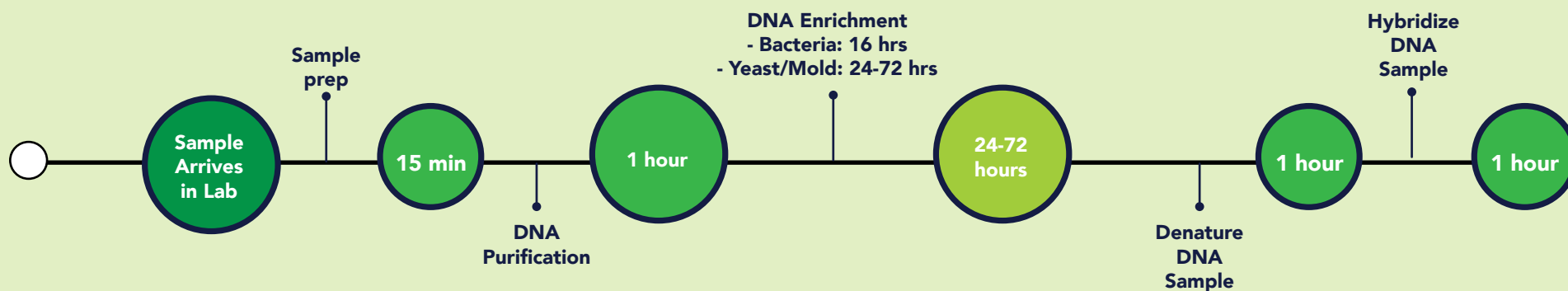
- *Flexibility—use only what you need, when you need it*
- *Speed—continue to gain results with high certainty in 6 hours or less*
- *Cost Savings—reduce waste*
- *Higher quality glass that enhances specificity and imaging*

# THE PATHOGENDX PERFORMANCE ADVANTAGE EXPLAINED

PATHOGENDX: DEFINITIVE, QUANTIFIED DNA-BASED TEST RESULTS IN 6 HOURS OR LESS



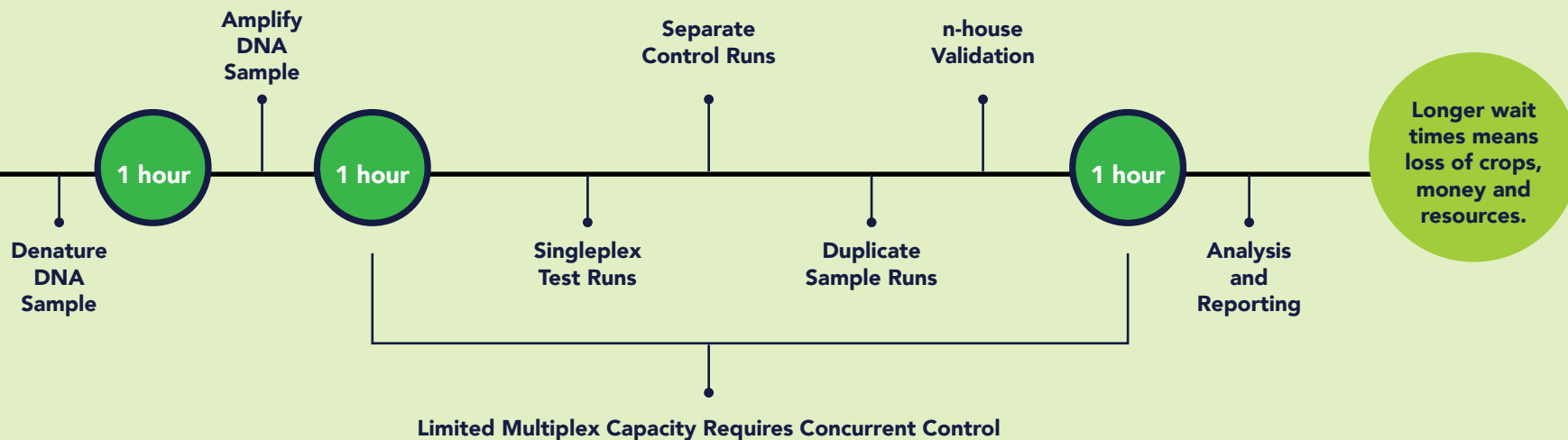
QPCR: VARIABLE DNA-BASED RESULTS IN 2-4 DAYS





**"AS THE ONLY MULTI-STATE OPERATOR IN THE CANNABIS TESTING INDUSTRY WE TEST PRODUCTS TO MEET THE REGULATORY AND SAFETY STANDARDS OF EVERY STATE WHERE THEY ARE GROWN, PRODUCED AND SOLD. PATHOGEND<sub>x</sub> HELPS US TO MEET THIS DEMAND WITH ULTRA-RAPID PRECISION - WE GET RESULTS FOR OUR CLIENTS IN SIX HOURS OR LESS."**

– Chris Martinez, Co-founder and President, Kaycha Labs



# NOT SIMPLY NEW TESTS AN ENTIRELY NEW CUSTOMER

PathogenDx delivers the only testing platform required for a  
model for food, agriculture and



## Detect<sup>x</sup>

Tests for the presence or absence of pathogenic microbial organisms down to a single organism, at less than one CPU/g for state regulated compliance. Test up to 100 samples per day for 20 known pathogens, with product safety certainty delivered in six hours.



## Quant<sup>x</sup>

Brings quantification of bacterial and fungal class indicator organisms to cannabis testing. Now with enhanced performance, creating the industry's first and only molecular quantification for total yeast, mold and bacterial organizations. Now with analysis time reduced to 4.5 hours.

## Detect<sup>x</sup>

....Alive....

**ANOTHER BREAKTHROUGH  
HAS GONE LIVE.**

With any of our products, add this option to leverage the ability to isolate DNA that's alive to more accurately identify harmful contaminants.



# ADVANCED TECHNOLOGY. CUSTOMIZABLE PLATFORM.

Designed to reshape today's Cannabis industry, and provide a platform for other industries in the future.



*Fig. 3*

*Monitor grow environment safety*

## Enviro<sup>x</sup>

With the touch of a swab, you can identify sources of contamination within grow houses and processing facilities, to mitigate risk to high-value cannabis crops. Swab floors, walls, ceilings, ducts, drains, work surfaces, racks and tools to pinpoint threats and ameliorate them before infestation spreads and costs rise.



*Fig. 4*

*Bacterial/Fungal in one*

## Detect<sup>x</sup>

..... DUAL-HYB .....

With Detect<sup>x</sup> Dual Hyb, PathogenDx now delivers the world's first DNA test for Bacterial and Fungal Species, all performed in parallel, from a single sample. By combining tests in one Microarray well instead of two, we help labs save 15% in costs. Please contact us for information on Detect<sup>x</sup> Dual Hyb testing.





# DETECTION AND PROTECTION FROM SEED TO SALE.

**LABS:** PathogenDx eliminates as many as 20 laboratory steps with its patented Microarray technology— simplicity that drives cost savings. Through ultra-rapid detection and quantitation, labs deliver certainty, align with

**DISPENSARIES:** As competition skyrockets, the image of retail outlets is reflected in every transaction. Establishments can ensure the health and safety of products through PathogenDx testing to grow customer



**GROWERS:** With testing that delivers certainty in just 6 hours, growers can ensure compliant product and avoid losses. Enviro<sup>x</sup> makes it easy to swab everything from vents to work tables to identify the source of infestation and redress before costs spiral. Our technology can also aid in air quality monitoring.

**PROCESSORS:** Ultra-rapid detection of microbes ensures the product is safely turned into market-ready product, reducing outbreaks and losses. Use Enviro<sup>x</sup> to identify the source of infestation and redress, preserving future production.

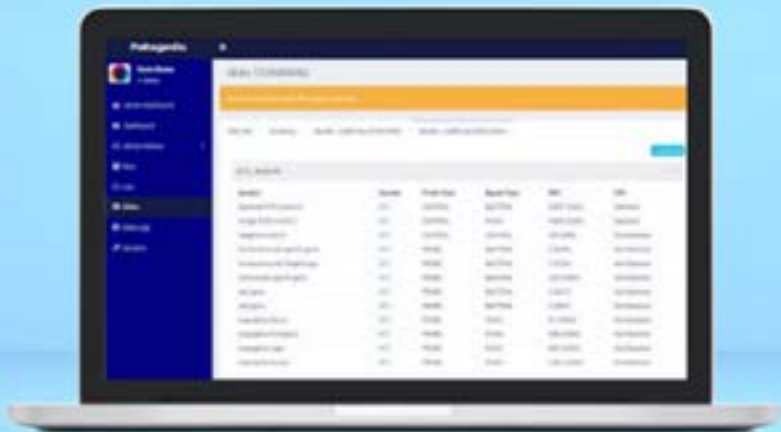
**DISTRIBUTION:** Shipping can be held up by testing regimens that today can take days or weeks. DNA-based technology from PathogenDx delivers results in 6 hours, to speed regulatory approval and keep business rolling.

**CONSUMERS:** Awareness of “dirty” product is growing as about 30% of all Cannabis product tests positive for pathogens today. PathogenDx testing ensures the clean, safe product end-users want—and the peace of mind that accompanies it.

# PATHOGENDX PORTAL— NEW, IMPROVED SUPPORT FOR OUR LAB PARTNERS

PathogenDX provides testing labs, growers and regulators with rapid insight that creates clean, safe product and ease regulation and compliance. In addition, all DNA-based test data is uploaded to a secure, cloud-based database providing real-time intelligence. The PathogenDx Portal drives customer ease and efficiency, providing state-of-the-art tracking and reporting.

## BENEFITS IN THE LAB AND ONLINE AS WELL.



- No dropbox, so you won't run out of space
- Real-time tracking for results
- Multi-user access and tracking
- Apply results to individual client accounts
- Prior history reports



# IT'S A WHOLE NEW STANDARD OF KNOWING.

**100% American Innovation plus 100% American-made reagents**



## **WORLD'S FASTEST**

Detection in less than 6 hours from raw sample to result



## **ENVIRONMENT DETECTION**

Identify the source of contamination to quickly eliminate microbes



## **IDENTIFIED. QUANTIFIED.**

Down to 0.1 CFU/g detection for pathogenic organisms



## **100+ TESTS PER DAY**

Over 20 microbials tested in 100 samples in one day



## **LOWEST COST**

More than 20% Total Cost Savings compared to other solutions on the market



## **REGULATORY OPTIMIZED**

Test all state-regulated microbial organisms—bacteria, yeast, mold and fungi— in one simple test

 **PathogenDx**  
..... *Setting the standard in DNA testing*

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