



ADLM 2026 · Booth #2168



myNAT™

10-minute ultra-low-cost real-time PCR in your palm

Sample-to-answer in 10min

1/10 An order of magnitude lower cost

THE INSTRUMENT

myNAT™ — Handheld ultra-low-cost real-time PCR testing

<10 min

40-cycle qPCR test

6 color

Optical channels

HRM

0.05° C/s

350 grams

Weight

A paradigm shift in point-of-care testing

The myNAT™ miniaturizes OnsiteGene's proven superfast PCR technology currently used in the XDive® instrument into a handheld point-of-care instrument — bringing **a new level of affordability** to molecular POC testing without compromising on performance.

Lab-quality performance

myNAT™ utilizes the gold standard real-time PCR technology for optimal performance

Unprecedented cost-effectiveness

Expands access to high-quality PCR testing in settings previously priced out

Open PCR platform

Quickly migrate your own real-time PCR tests to myNAT™

Extreme portability and flexibility

Weight of 350gram, battery operation, and palm size enable myNAT™ to redefine many use case

Specifications

Run time	< 10 min
Multiplex	5 targets + control
Power	Battery + AC
Size	~7.3×7.2×7.3 cm
Ease-of-use	Targeting CLIA-Waiver
Readout	LED Lights + Smartphone App
Weight	~350 g



Superfast
PCR tube

Superfast and High-yield Sample Preparation



A NEW SAMPLE-PREP COMPANION

Xlyser™ — Handheld ultra-sound lysis device

1-min Lysis

Lysis and
PCR-ready

Low \$

Highly
affordable
device and kits

Highest Yield

Much higher yield
than bead beating
and thermal lysis

100%

Pathogen
inactivation

Battery Powered

Expands use
cases

Tough organisms, no lab required

Cracks the hard ones — high-efficiency ultra-sound
lyses tough organisms including *M. tuberculosis*

PCR ready — lysate compatible with direct PCR
and RT-qPCR

Biosafe — lysis fully inactivates pathogens

POCT-ready — portable, battery-powered,
low-cost disposable lysis tubes

Easily integrated into your workflow — interactable
with all PCR and NGS steps

Specification

Fast lysis	1-minute lysis
Method	Ultra-sound lysis
Power	Battery, AC handheld
Weight	840 gram
Disposable	Low-cost tube
Biosafety	Full inactivation

Xlyser + myNAT: SAMPLE-TO-ANSWER qPCR TEST IN MINUTES

1. Lyse ~ 1 min

Full lysis and inactivate
in the Xlyser™ tube

2. Load ~1 min

Metered drop into the
PCR tube (5/10/20 µL)

3. Amplify < 10 min

Six-color real-time PCR
on myNAT™ and XDIVE®

4. Answer

Read pathogen +
resistance on-device

BUILT ON A PROVEN PLATFORM OF XDive® 5-MINUTE REAL-TIME PCR

XDive® on-market · Wyss Institute
Harvard University

Validated by Prof. Carl Wittwer
(BioFire/FilmArray)

ISO 13485

FDA EUA — COVID-19 & Mpox

NIH RADx member

16 global patents

ASSAY MENU IN PIPELINE

Respiratory
5-plex panels
(RUO)

Gastrointestinal
5-plex panels
(RUO)

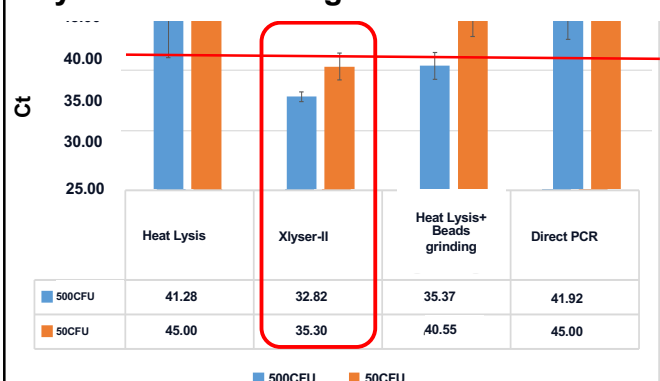
STI & AMR
STI / AMR
panels (RUO)

TB / RIF / INH
RUO

**Human
genomic DNA**
XfastQuant rapid
quant

Pet & animal
GI / parasite
panel

Xlyser+XDive (myNAT) workflow for testing Mycobacterium smegmatis



OnsiteGene, Inc.

Star Array Group
Los Altos, CA 94022, USA

www.onsitegene.com
info@onsitegene.com