

- Automated and fast
- Compact and light weight
- Affordable to all
- 1-8 sample throughput
- Low cost iCard
- Many test kits optimized for sample-to-answer testing

- User to make My Test on a sealed reconfigurable cartridge
- Contamination control
- Room temperature reagent for shipping and storage
- Multiplex PCR panel(User Reconfigurable 1-16/20 plex)

Breakthrough Sample-to-Answer Open PCR Platform

The myNAT™ system by OnsiteGene Inc. is an innovative, all-in-one molecular diagnostics platform designed for fast, compact and high-sensitivity multiplex panel nucleic acid testing, with an open cartridge for users to make a test with their own reagents capable of 1-8 sample throughput. Combining automated magnetic bead extraction with multiplex real-time PCR panel in a sealed test cartridge, myNAT™ delivers results in just 35 minutes—from raw sample to actionable data of up to 16/20 targets. All its reagents and test cartridges can be shipped and stored at room temperature for 12 months, ideal for POCT.

With an ultra-low-cost sealed cartridge design to achieve user flexibility of 1 to 4 PCR tubes (1-16/20 targets, and expandable to 8 PCR tubes for 40 target multiplexing), myNAT™ brings laboratory-grade performance into compact, point-of-need settings at significantly lower cost, particularly suitable for cost-sensitive applications.

The outstanding performance and innovative design of the myNAT™ rapid nucleic acid panel testing system with a goal to reach sub-10-minute PCR test have been recognized and selected for the prestigious Advanced Diagnostic Technology (RADx) Program by the National Institutes of Health (NIH).



myNAT-1 operating a sealed iCard free of contamination

Key Advantages

02

O1 | Compact & Portable (1-8 samples)
Lightweight (7.6 kg), easy to deploy anywhere

Sample-to-Answer Automation free of

contamination
Integrated magnetic bead extraction +
real-time PCR panel + melt curve analysis on

iCard with contamination control

- Flexible multiplex PCR panel testing
 1-16/20 plex selectable over 4 PCR tubes in
 a panel, expandable to 40 plex
- O4 Cost-optimized Cartridge
 The novel sealed cartridge design dramatically reduces per-test costs while ensuring effective aerosol contamination control and supporting high-volume production—making it ideal for cost-sensitive applications.

05 | Scalable & Flexible

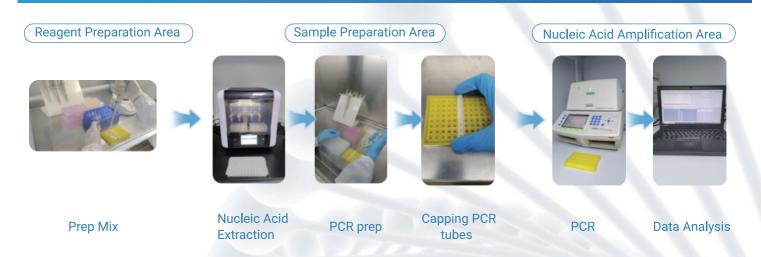
Supports random-access testing with multi-unit configurations (1 to 64 samples)

Room temperature shipping and storage of test kits and cartridges

Dried reagents are used in the test cartridges with shelf-life of 12 months at room temperature.

- O7 Compliant Manufacturing
 Produced in ISO13485-audited facilities
- 08 Product Safety Certification EN61010, EN61326
- O9 Versatile Sample Compatibility
 Swabs, saliva, sputum, blood, urine, feces, and tissue

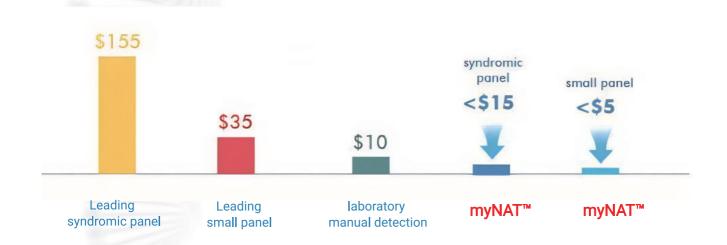
Conventional Extraction and PCR Workflow (Lab with Multiple Rooms)



myNAT™ Workflow (anywhere, anytime)



Cost Comparison per Test (Sample-to-Answer Workflow)



myNAT™ Product Models

Model	Description
myNAT-1	Single-sample system (up to 16 and optional 20 targets)
myNAT-8	8 samples, 4/5 targets per sample
Model-1G	Combines up to 16 myNAT-1 units for 16-sample random-access testing
Model-8G	Combines up to 8 myNAT-8 units for 64-sample random-access and parallel testing

Technical Specifications

Sample-to-answer ultra-low-cost cartridge-based rapid nucleic acid analyzer with integrated magnetic bead extraction and a qPCR panel of up to 16 and optional 20 targets, and capable of DNA melt curve analysis.
1 sample (myNAT-1), 8 sample (myNAT-8)
Closed, preloaded with extraction/PCR reagents or user loaded
35 minutes
100uL-500uL
4 PCR tubes (up to 16/20 targets), expandable to 40 targets, 10-50 μL reaction volume
Target concentration changes as small as 2-fold differences can be detected in single plex fluorescence reactions
8-fold dilution gradient
Fam™, Hex™, Rox™, Cy5™. Option Cy5.5™
Swabs, blood, sputum, feces, urine, tissue, etc.
Touch screen interface
15 × 36 × 38 cm / 7.6 kg for myNAT-1 26 × 44 × 48 cm / 18 kg for myNAT-8
100V – 240V AC, 50/60Hz

Sample-to-answer Test Kits:

For our infectious disease PCR panel test kits with integrated nucleic acid extraction, please refer to our brochure of *Xfast™ & Efast™ Superfast Reagent*.



Onsitegene, Inc.

335 Alicia Way Suite A Los Altos, CA 94022, USA

