

NATSpert™

Individual Donor - TripleH Nucleic Acid Test

Innovative Technology with Superiority of RTPCR and Sensitivity of ID - NAT

NAT screening System - Compact and Simple



NATSpert™ Kit

The Expert you can rely on

The Mylab Discovery Solutions NATSpert™ ID TripleH detection Kit offers all in one qualitative multiplex RealTime PCR test for simultaneous detection and discrimination of HIV, HBV and HCV in a single tube format.

NATSpert™ ID TripleH is licensed by FDA for screening of Human Immunodeficiency Virus type 1 (HIV) Group M RNA, HIV-1 Group O RNA, HIV-2 RNA, Hepatitis C Virus (HCV) RNA and Hepatitis B Virus (HBV) DNA in human plasma specimens from individual human donors, blood products and suspected individuals.

The NATSpert provides viral nucleic acid extraction using Mylab's proprietary magnetic bead technology. Extracted viral nucleic acid is further amplified using real time PCR technology for detection and discrimination of HIV RNA (HIV-1 Groups M and O RNA, HIV-2 RNA), HCV RNA (Genotype 1-6) and HBV DNA (Genotype A-H). The test also incorporates a heterologous Internal Control (IC) to be processed during extraction and real time PCR for monitoring test performance for each individual sample, this ensures high reliability of NATSPERT ID Triple H detection kit, with its stringent quality check.



NAT screening System - Accurate and Specific



NATSpert™ Kit

The Expert you can rely on

Mylab ensures highest accepted standards of sensitivity and specificity through its NATSpert system.

The highly sensitive RTPCR technology, individual donor testing process, multiple quality checks with controls, high volume sample processing proprietary technology, combined with automation of Compact χ by Mylab will ensure a high level of blood safety, across small, medium and large Blood banks.

Types of Viruses covered

- HIV-1 genotype (A to H including AE and GH)
- HIV-1 Group O RNA
- HIV-2 RNA
- HCV RNA (Genotype 1-6)
- HBV DNA (Genotype A-H)

TAT & Throughput

- Sample to Result - 2.5 hrs
- Flexible and Scalable: From 40 samples per day to 1000 + per day

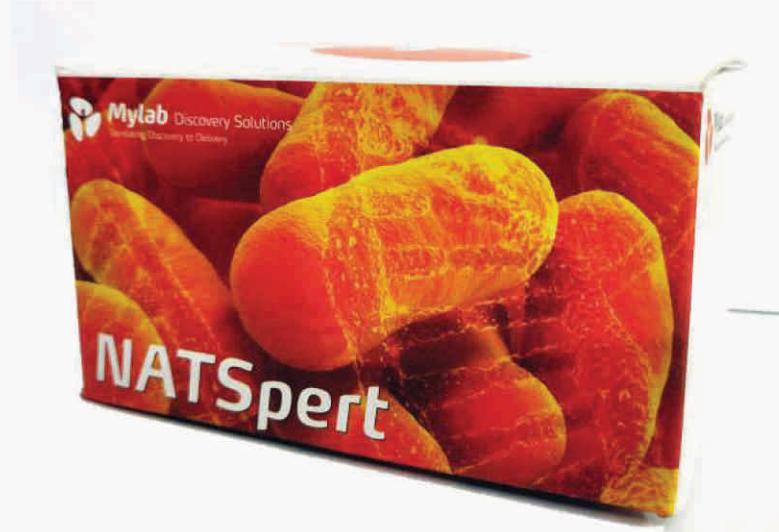


NAT screening System - Be sure always



NATSpert™ Kit features

- **Specificity:** Based on the most sensitive hydrolysis probes RTPCR that are designed to increase the specificity
- **Sensitivity:** Individual Donor (ID) NAT testing provides ultra- sensitive results; there is no compromise on the sensitivity
- **Ease of use:** “Direct to customer” individual sample cartridge based, on robust automated Screening
- **Multiplexing:** Simultaneous detection of HIV-1, HIV-2, HCV and HBV in a single tube.
- **Optimal set of controls:** Monitoring quality performance of each individual test
- **Full Automation:** Includes all consumables required to perform sample to Result analysis, eliminating manual errors
- **Fast:** Results in under 2.5 hrs starting from sample to result analysis
- **Regulatory Compliance:** FDA approved, manufactured under ISO 13485 Medical devices, adhering international GMP guideline gives you complete assurance on each test NATSpert Test performed.



NAT screening System - Compact & Simple



NATSpert™ Platform

The Compact X is a sample-to-PCR ready system, that eliminates the huge infrastructure & capital requirement of molecular lab; the machine is designed to automate all operations from sample handing to PCR tube preparation. It is a system combined with NATSpert™ to reliably deliver accurate, and on-time results



- Consideration of Indian data base of HIV, HBV and HCV virus strains for kit designing. Clinical trials done using samples from pan India. Thus NATSpert truly represents a unique solution for Indian blood screening needs
- ID testing method is most appropriate to ensure sensitivity, reduce chances of error and missing detection of low virus
- Multiplex reaction in one tube saves time and costs
- Complete CE compliance workflow from sample to detection. Analytical sensitivity and specificity correspond to the highest worldwide standards

Intuitive Technology

Safe Blood Supply Always

- Most comprehensive test
- Multi-dye nucleic acid technology
- Complete system-guided work-flow

Ease of Use

Simple and Easy

- Ready-to-use reagents
- Minimal hands-on time
- Reduced human errors

Reliable Test Results

Confidence you always need

- The most comprehensive genotype coverage
- Monitoring of each run by external control
- Monitoring of each tube by internal control

Small Footprint

Small on footprint, Big on Results

- One room operation
- Benchtop systems
- Integration with LIMS for streamline workflow

NAT screening System - Compact & Simple

Compact x

Simple Setup - Simple to use

Whether you are currently performing blood screening, blood product screening, or you are considering to implement a new facility, Mylab and NATSpert™ system are here to simplify it for you with Compact x, the first ever machine to bring the entire lab in a box.

Starting a NAT screening laboratory can be challenging, with many considerations that do not apply to traditional serological testing. Mylab team with NATSpert™ system uniquely address these challenges to help you ensure a safer blood supply, always.

Step One



Load the sample and cartridge in Compact x

Step Two



Analyze the result on analyzer

1

Fully Automated Sample-to-PCR ready Instrument :

- Automated extraction of the samples
- Automated set up of PCR ready tube

2

Parallel processing:

- Multiple sample types
- Multiple parameters can be tested on the same platform

3

- One cartridge - One Test
- No pipetting, no manual handling
- LIMS connectivity
- Compact footprint of the machine

4

Robust Contamination Control:

- Dedicated Lane for each Sample, for prevention of cross contamination between lanes
- Secured and automated cartridge opening
- UV light decontamination

5

Multiple systems can be networked together to achieve throughput of 40 to 1000 plus samples per day, without any hassle. Uses the proprietary Mylab sample processing reagents, yielding high quality results.

6

- Simple operations not requiring high end technical expertise to run the system
- Simple operation – software-driven workflow require very little training and very low maintenance of the system

NAT screening System - Compact & Simple



Compact χ

Compact χ Specifications

Physical dimensions Console

w: 70 cm / 27.5 inch
h: 50.6 cm / 19.9 inch
d: 50.4 cm / 10 inch
Weight: 30 kg / 66 lb

Power Requirement Console

Power Supply: 100-240 V; 50/60 Hz
Max. Power Consumption: 80 W
Noise Level: Max. 49 dB(A)

Instrument type

Standalone system designed for networking as 'building blocks' based on workload

Application

Sample to PCR Ready

Sample per run

1 to unlimited based on networked instruments

Sample Volume range

50 μ l to 1 ml



Decontamination

Inbuilt UV lamps for self sanitization

Sample processing

Simultaneously can run 96 samples at the same time in network

Ordering information

Product	Cat. no.	Reaction size/kit	Price
NATSpert ID TripleH Detection Kit	NSID100	100	Please Inquire
NATSpert ID TripleH Detection Kit	NSID500	500	Please Inquire

Maximize benchtop space, with the most Comprehensive system



Mylab NATSpert system provide our latest advancements in compacting the entire molecular laboratory in a machine, allowing you to reduce space requirement. They're designed for both new and experienced users who need simple and efficient NAT testing systems without compromising performance or quality.

Futureproof

With Mylab's Compact *x* system, you can also perform additional parameters on the same system. All upcoming Mylab tests will be available to run on the same system.

Just like NAT test cartridge, Other Mylab tests will be offered on similar cartridge

To be launched

- CMV
- HPV
- Malaria
- Syphilis
- TORCH panel
- Molecular Blood Grouping
- Septicemia screening (Bacterial detection in blood) this will cut short the TAT within 20hrs compared to lengthy existing techniques
- Cancer

Already available

- HIV Viral load
- HBV viral load
- HCV viral load
- Pre-Operative screening test

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