

NATSpert[®]

Individual Donor - TripleH Nucleic Acid Test
Asia's First **CDSCO** approved



NATSpert® Kit

The Expert You Can Rely On

TripleH Nucleic Acid Test for

- Individual donors screening in blood banks
- Pre-op individuals screening in hospital

Mylab NATSpert® ID TripleH Detection Kit offers all in one qualitative multiplex RT-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
- 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 RT-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 RT-PCR for monitoring test performance for each individual sample, this ensures high reliability of NATSpert® ID TripleH detection kit, with its stringent quality check.





Accurate & Specific

ID-NAT Screening System

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

Highly sensitive RT-PCR technology

individual donor testing process

multiple quality checks with controls

high volume sample processing proprietary technology

compatible with automation of Compact XL by Mylab

Available for blood banks of all Sizes

Types of Viruses covered

HIV-1 genotype (A to H including AE & GH)
HIV-1 Group O RNA

HIV-2 RNA

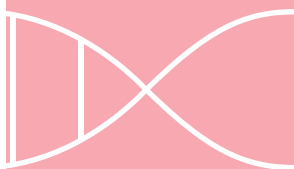
HCV RNA (Genotype 1-6)

HBV DNA (Genotype A-H)

TAT & Throughput

Sample to Result - 2.5 hrs

Flexible and Scalable: From 32 samples
per day to 1000 + per day





Be Sure Always

NATSpert® Kit Features

Specificity - Based on the most sensitive hydrolysis probes RT-PCR 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 - Monitor quality performance of each individual test with positive and negative calibrators, and internal control

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.



NATSpert[®] Advantages

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 compliant 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



Compact XL / DX

Fully integrated and fully automated walk-away Compact XL & DX system for Blood Bank Donor Screening.

Whether you are currently performing blood screening, blood product screening, or you are considering to implement a new facility, We are here to simplify it for you with Compact XL/DX, the first ever machine to bring an entire lab in a box.

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



1

Fully Automated Sample-to-result ready Instrument:

Automated processing 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 32 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 that very little training and very low maintenance of the system



Specifications

Compact XL

Instrument Type	Bench top Sample-to-PCR ready tube
Application	Sample to PCR Ready tubes, Genomics, proteomics, target identification, veterinary assays, biomarker discovery, quality control, forensics, tissue
Samples per run	1 to 32 samples
Throughput	Medium to High upto 400 samples in 12 hours
Volume range	30 to 10000 ul
System	Cartridge based system
UV lamp	Inbuilt UV lamp
Deck heating temperature	30 to 90 degree celcius
Deck cooling temperature	0 to 10 degree celcius
Instrument Size (LxBxH)	1300 x 775 x 700
Weight	Approximately 275 Kg
Input Power	1500 W
Rated Frequency	50 Hz
Rate Current	7.0 A
Rated Voltage	AC 180-240V \pm 5%
Plastic consumables	Tip rack, Extraction cartridge, Piercing tips, Tips, PCR cartridge
System sanitization	Yes, Self sanitizing system, with inbuilt UV lamp
Biosafety containment	Inbuilt biosafety containment with HEPA filter exhaust
Display	LCD screen with Pre-installed programes
Sample processing in network	Simultaneously machines can be networked

Compact DX

Physical Dimensions Console	h: 690 mm, L: 666 mm, W: 600 mm, Weight: 30 kg
Sample Processing	Simultaneously can run 8 samples at the same time in network
Samples per run	1 to 8 in paralle
Instrument Type	Standalone system
Power Requirement Console	Power input: 720W Rated Frequency : 50 Hz Rated current: 3.15 A Rates voltage: 220-240VAC
Decontamination	Inbuilt UV lamps for self sanitization
Sample Volume Range	30 ul to 1 ml

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 XL/DX 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

Mylab range of kits

- | | | |
|--|---|--|
| <ul style="list-style-type: none">• CMV• HPV• Malaria• Syphilis• TORCH panel | <p>Septicemia Screening (Bacterial Detection in Blood) this will cut short the TAT within 20hrs compared to lengthy existing techniques</p> | <ul style="list-style-type: none">• Cancer Marker Detection• Infectious Disease Detection• Genetic Disorder Detection• Molecular Blood Grouping |
|--|---|--|

Already available

- HIV Viral Load
- HBV Viral Load
- HCV Viral Load
- Pre-Operative Screening Test

Ordering Information

Method	Cat. No.	Rx/Pack
Automated	NSIDA32	32
	NSIDA100	100



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CoviSelf | CoviSwift | PathoDetect | NATSpert | PathoCatch | OncoScreen | DiscoverSeries | AgroDex | VetScreen | CompactXL

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