



NATSpert

Leading the way in NAT testing
HIV | Hep B | Hep C



Find more information at www.mylabglobal.com



NATSpert® Kit

The Expert You Can Rely On



TripleH Nucleic Acid Test for

- **Individual donor screening in blood banks**
- **Pre-operative individual screening in hospitals**

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

- Human Immunodeficiency Virus Type-1 (HIV) Group M, N and O RNA
- Hepatitis C Virus (HCV) RNA- All genotypes
- Hepatitis B virus (HBV) DNA human plasma specimen from individual human donors, blood products and suspected individuals (covering all genotypes)

The NATSpert® provides viral nucleic acid extraction using Mylab's proprietary magnetic bead technology. Extracted viral nucleic acid is further amplified using one step RT-PCR technology for detection and discrimination of HIV RNA (HIV-1 Group M,N & O RNA) & HIV -2 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 synthetic IC also serves as, built-in process control ensuring high reliability of NATSpert® ID TripleH detection kit, with its stringent quality check.

Accurate & Specific ID-NAT Screening System

Mylab Support

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

Automation compatible through Mylab's Compact XL/DX

Available for blood banks of all sizes

Types of Viruses covered

HIV-1 genotype (A to H including AE & GH)
HIV-1 Group M, N & O

HIV-2 RNA

HCV RNA (Genotype 1-6)

HBV DNA (Genotype A-H & Pre-core Mutants)

TAT & Throughput - Compact DX

Sample loading to result- 2 hours only

Flexible and scalable from 8 samples to 400 samples per day with multiple integrated systems to maintain the TAT.

Be Sure Always

NATSpert® Kit Features



Specificity

Based on the most sensitive hydrolysis probe-based 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 cartridges for 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 test with positive, negative, and internal controls.



Full Automation

Includes all consumables required to perform sample to result analysis, eliminating manual errors. System check for sample and consumable placement.



Fast

Auto analyzed reports obtained in 2 hours from sample loading.



Regulatory Compliance

FDA-approved, adheres to international GMP guidelines, and manufactured as per the ISO 13485 medical devices standards.



Bar-coding

Easy identification of samples and reagents.



Auto Result Display

Displays system generated reports and Library Information System (LIS).



Real-time Volume Monitoring

Pick-up volume of sample and reagents monitored to ensure accurate and consistent results

NATSpert® Advantages

Consideration of Indian HIV, HBV, and HCV viral strain database, pan-Indian samples, and multiples clinical trials for designing these kits.

ID testing method is most appropriate to ensure sensitivity, reduce chances of error and detecting even low viral load.

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 looking to build a new lab facility or performing the intricate blood and product screening activities, we are here to simplify the process through Compact XL/DX, the first-ever complete automated machine that brings 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 teams up with NATSpert system to uniquely address these challenges and ensure safe blood supply always.

Fully Automated Sample-to-PCR ready Instrument: Compact XL

Automated sample to PCR tube ready system for complete results.

Fully Automated Walkaway Sample to PCR system: Compact DX

Compact DX with integrated PCR processing system

Sample size 8 to 200 per 12 hours.

Robust Contamination Control

Dedicated Lane for each Sample, for prevention of cross contamination between lanes

Secured and automated cartridge Piercing

UV light decontamination

Parallel processing

Multiple sample types

Multiple parameters can be tested on the same platform

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

Parallel processing

One cartridge - One Test

No pipetting, no manual handling

LIMS connectivity

Compact footprint of the machine

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

Compact XL[®]



Specifications

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 per run
Throughput	Medium to High upto 200 samples in 12 hours
Volume range	30 to 10000 μ
System	Cartridge based system
UV lamp	Inbuilt UV lamp
Deck heating temperature	30 to 90 Degree Celsius
Deck cooling temperature	0 to 10 Degree Celsius
Instrument Size (LxBxH)	1300 x 775 x 700
Weight	Approximately 275 Kg
Input Power	1500 W
Rated Frequency	50 Hz
Rate Curren	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	Simultaneous networking of other similar type machines

CompactDX[®]



Specifications

Physical dimensions console	H: 690 mm L: 1332 mm W: 600 mm Weight: 85 kg
Sample per run	1 to 8 in parallel
Sample processing	Simultaneously can run 8 samples, At the same time in a network, it can run 8/16/32/96 samples in a single run.
Instrument type	Standalone system PC / Laptop connection available USB connection available, external devices such as printer connections available
Power backup	5 KVA UPS for 4 hours
Power requirement console	Power input: 720w Rated frequency: 50 hz Rated current: 3.15 a rates voltage: 220-240vac
Application	Sample to result
Decontamination	Inbuilt uv lamps for self sanitization
Sample volume range	30 ul to 1 ml
Data transfer	Local and remote access
Operating conditions	+5° to +40°C

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

- CMV
- HPV
- Malaria
- TORCH panel

Septicemia Screening (Bacterial & Viral Detection in Blood) this will cut short the TAT within 4 to 5 hrs compared to lengthy existing techniques

- 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
Rx/Pack	NSIDA32	32
	NSIDA100	100



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