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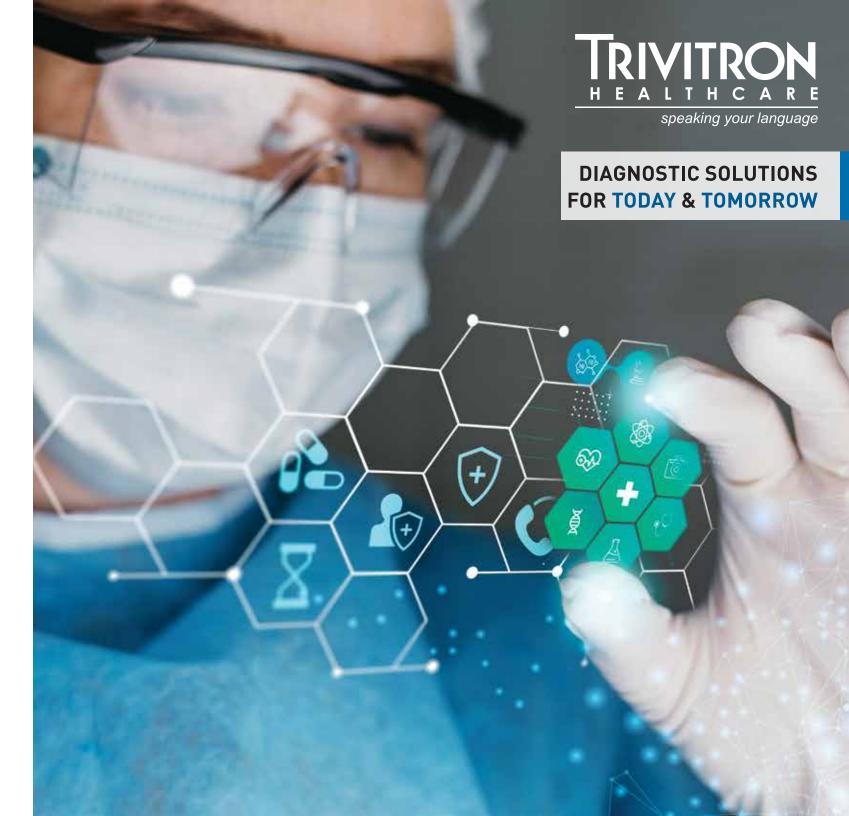










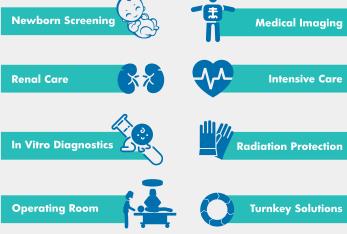




ABOUT TRIVITRON

Trivitron Healthcare as a medical technology company providing affordable healthcare solutions weaves a fascinating thread of inspiration to many healthcare providers. Trivitron markets its products to hospitals, individual healthcare providers, independent clinics and laboratories, extended care facilities and all other roofs providing healthcare solutions. At Trivitron, quality healthcare is considered as a fundamental right and the vision is to make it available for the people of all classes.

Trivitron is among the pioneers in bringing high end medical technology within the reach of society with strong emphasis on research and development, manufacturing and strategic partnerships with global leaders. Trivitron is making healthcare affordable and accessible in over 180 countries with innovative products and solutions, saving lives and improving care, through 15 manufacturing facilities spread across India, USA, Finland, Turkey & China.



The eventful journey has brought acclaims for almost each of our businesses. Our human resources remain the most valuable assets responsible for the accolades that we have received for businesses, exports, innovations and of course our human resources development practices. We have the unique distinction of being unconventional in our thinking and always willing to re-engineer ourselves to address challenges faced by society in healthcare and medical technology.

As the world navigates the uncertainty of COVID-19, you can count on Trivitron for continuity of services & testing solutions for COVID-19.

We are contributing to the global fight against the coronavirus through our products and expertise in medical technology in Laboratory Medicine Segment. In our fight against COVID-19, we have been working extensively to bring high quality COVID-19 testing solutions.



15 Manufacturing and R&D Facilities in India, Finland, Turkey & China



100+ Years of Combined Manufacturing Experience





Global Manufacturing Facilities

With 15 manufacturing facilities, Trivitron occupies an enviable position in the healthcare industry by producing a wide range of equipment, laboratory reagents, diagnostic kits and even protective apparel for radiology departments. The products are used in healthcare setups and hospitals across the world.





















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CLINICAL CHEMISTRY

Clinical Chemistry

Semi Automated Clinical Chemistry Analyzer Labmate

Most versatile semi-automated biochemistry analyser with clinical chemistry, turbidimetry and coagulation modes.

- Ideal for small and medium sized laboratories
- 3 analysis mode for flow cell, cuvette and coagulation tube
- 7 "colour display model with touch screen, with barcode reader, keyboard and mouse
- Modes: Endpoint with reagent blank, two point end fixed time, kinetic, multi standard
- 8 Interference filters (340nm to 700nm)
- Peltier controlled triple cuvette analysis system
- Minimum aspiration volume of 200 µL through peristaltic pump
- Multipurpose inbuilt 37°C incubator with 22 positions
- · Inbuilt thermal printer with facility to connect to external printer too
- 18 µL quartz cell with 200 user defined test program



Fully Automated Clinical Chemistry Analyzer Nanolab 200

Nanolab 200 is "state of art" compact fully automated random access biochemistry analyzers with latest technology which are ideal for medium and heavy workload laboratories.



- Discrete, random access, fully automated, compact, bench top biochemistry analyser
- User friendly OS, highly accurate and reliable results with throughput upto 200 test/hr
- 40 refrigerated reagent position and 40 multipurpose sample positions
- 44 optical reaction cuvettes with facility of incubation at 37°C
- 4 stage on board laundry available
- User friendly software with simple interface for easy operation
- Precise pipetting ensured by dedicated sample and reagent probe with independent mixer
- Wavelength range from 340-700 nm with with option of adding 4 more filters
- Reaction volume as low as 150 μL

Fully Automated Clinical Chemistry Analyzer

Nanolab 400

Nanolab 400 is "state of art" compact fully automated random access biochemistry analyzers with latest technology which are ideal for medium and heavy workload laboratories.



- Constant 400 test/ hour with double reagent
- 90 reagent positions
- Automatic liquid level sensing, anti-collision protection
- Integrated full closed optical system, multi wavelength simultaneous detection
- New amorphous optical plastics reaction cups, perfect transmittance
- Maintenance free semiconductor solid state refrigeration
- Friendly surface and easy to operation
- 6-stage, 2 times automatic washing system, Alkaline cleaning solution

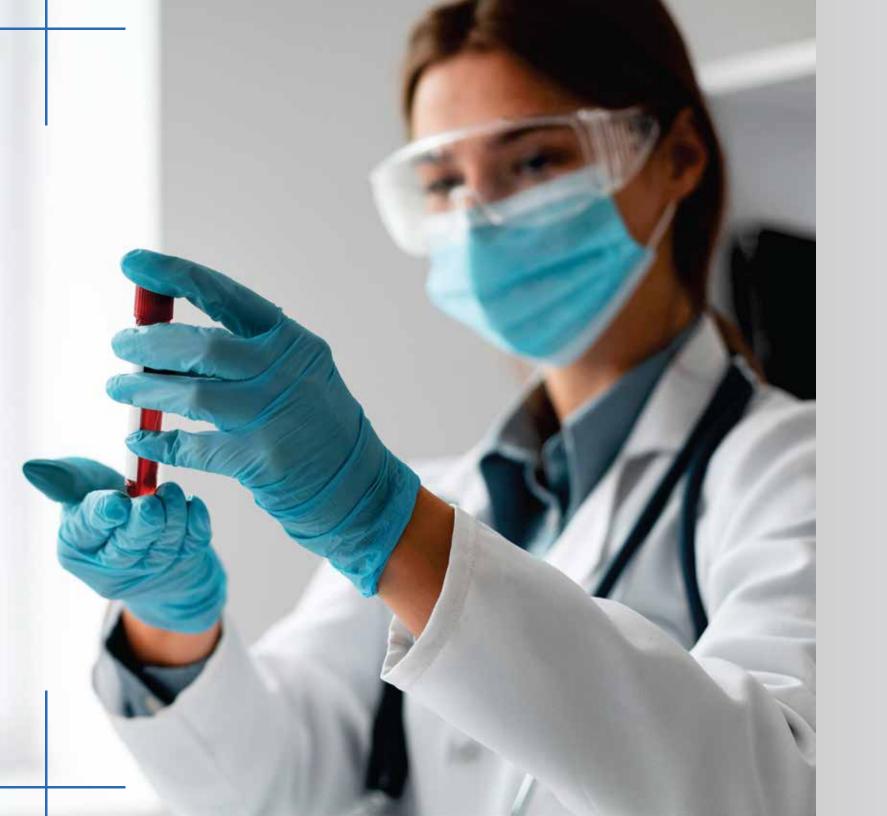
Reagents

Clinreact

Range of Clinical Chemistry reagents with long shelf life and ready to use pack sizes of various panels like Renal (Urea, Creatinine), Liver (Bilirubin), Cardiac (Lactate Dehydrogenase (LDH), Lipid (Cholesterol, Triglycerides), and many more



- Comprehensive test menu for enzymes, substrates, electrolyte
 & specific protein parameters
- Ready to use liquid stable reagents
- Each parameter offer long working reagent, on board & calibration stability
- Accurate & precise result ensure with low interference from icteric, lipemic & haemolysed samples
- Reagents provide high linearity, sensitivity & long shelf life (18 months)
- Specially designed mono vial pack size provide ease of convenience in analysis
- Clinreact reagents available in open & system pack configuration
- · Various instrument programming sheet available on request



HAEMATOLOGY

Cellenium 21

3 Part Diff with 22 Parameters

- Throughput: Upto 72 samples / hour with 22 parameters
- Precision counting through High resolution Cylindrical Aperture
- Accurate and Precise result by Sweep flow, PHM and PWM technology for reliable results
- Intelligent fault diagnostics with clog detection & auto-removal
- Advanced algorithmic floating discriminator for better cells discrimination





Cellenium 5D Retic

5 Part diff with 34 parameters

- Smallest 5 part differential analyser with retic
- 34 parameters with 2 histograms for RBC and PLT and 2 WBC scatter grams
- Sample volume 20 µL whole blood, throughput of 60 Test/hr
- Optional barcode reader, inbuilt thermal printer, large display
- Additional parameters: NRBC, ALY, LIC

Cellenium 5D Retic AL

5 Part Diff with 34 Parameters

- 34 Parameters, 2 histograms, 2 scattergrams & two 3D Stereograms
- Throughout up to 60 samples per hour
- Autoloader with upto 50 samples loading capacity at a time
- Reticulocyte Analysis with mono vial reagent pack
- Built in bar code reader for samples
- LIS and HIS compatible with HL7 protocol



Hematology Reagents & Controls

Reagents for 3 part Hematology Analysers - Cellenium 21, Cellenium 5D Retic, MR reagents.

Hematology compatible reagents available for 3 Part analyzer

- ISO and GMP certified manufacturing plant
- CE certified Reagents
- Shelf life up to 24 months
- Open container stability up to 4 months
- Environmental friendly diluent and cleaner reagents (Azide Free)
- Cvanide free lyse
- Three part diff control set (L,M,H)







IMMUNOLOGY

Instruments

Semi-Automated ELISA Reader

LD_x R1

LDx R1 is a compact, easy -to-use, fast and accurate semi-automated ELISA reader

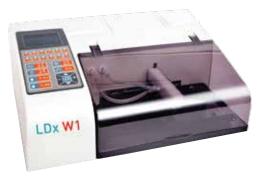
- Fast in segment ELISA plate reader
- Inbuilt shaking provision with variable speed adjustments
- Long lamp life with unique software and hardware design
- Windows based operating system with 8" touch screen colour display



Semi-Automated ELISA Washer

LD_x W1

 $LDx\ W1\ is\ a\ reliable\ ELISA\ washer\ which\ is\ easy\ to\ clean,\ leaves\ no\ residue\ and\ prevents\ contamination.$



- Suitable for flat, U & V bottom microplates with 8 & 12 way manifolds
- Easy to name, edit and save different wash programs
- Option to select washing programs for strip and plates

ELISA KITS

Blood banking and infectious disease detection kits

Key Features

- Breakaway wells to perform even single test
- Easy sample and reagent dilutions protocol
- Most stable TMB substrate
- Compatible with almost every ELISA reader and washer
- Longer shelf life and comes with convenient pack size of 96T each

Available Tests

HIV Ag-Ab 4.0 ELISA

4th generation ELISA kit to detect HIV p24 antigen along with IgM and IgA antibodies to HIV $1\ \&\ 2$

HBsAg ELISA

3rd generation ELISA kit to detect surface antigen of HBV using unique combination of monoclonal and polyclonal antibodies

HCV ELISA

3rd generation ELISA kit to detect antibodies against HCV using CORE-NS4, NS5 antigens

Syphilis ELISA

ELISA Syphilis is an in-vitro diagnostic qualitative immunoassay for the detection of antibodies to *Treponema pallidum* in human serum or plasma

Dengue IgM Capture ELISA Kit

The Dengue IgM Capture ELISA Kit is a solid-phase enzyme-linked immunosorbent assay for the qualitative detection of IgM antibody to Dengue in human serum or plasma

Dengue IgG Capture ELISA Kit

The Dengue IgG Capture ELISA kit is a solid-phase enzyme-linked immunosorbent assay for the qualitative detection of IgG antibody to Dengue in human serum or plasma.

Dengue Ns 1 Antigen ELISA Kit

The Dengue NS1 Antigen ELISA kit is an enzyme-linked immunosorbent assay for the qualitative detection of Dengue NS1 Antigen in human serum and plasma



CHEMILUMINESCENCE IMMUNOASSAY (CLIA) SYSTEM

Maglumi System utilizes two important technologies which makes it unique and outstanding CLIA analyser

- 1. The labelling technology which determines the reaction mode. It uses ABEI label, which is non-enzymatic in nature for better stability, both in acidic and alkaline buffers
- 2. Separation technology, which determines the sensitivity, accuracy and precision of the reagents. Utilizes, super paramagnetic microbeads solid phase making separation fast and efficient separation

Fully Automatic Chemiluminescence Immunoassay Analyzer

Lumivera 800

- Principle: Chemiluminescence Immunoassay (CLIA) System
- Throughput: up to 80 tests per hour
- Refrigerated reagent area
- Reagent RFID Tag with built-in master curve and information
- Probe: Liquid Level Detection, Clot Detection



Fully Automatic Chemiluminescence Immunoassay Analyzer

Lumivera 1000

- Principle: Chemiluminescence Immunoassay (CLIA) System
- Throughput: up to 120 tests per hour
- Refrigerated reagent area
- Reagent RFID Tag with built-in master curve and information
- Probe: Liquid Level Detection, Clot Detection

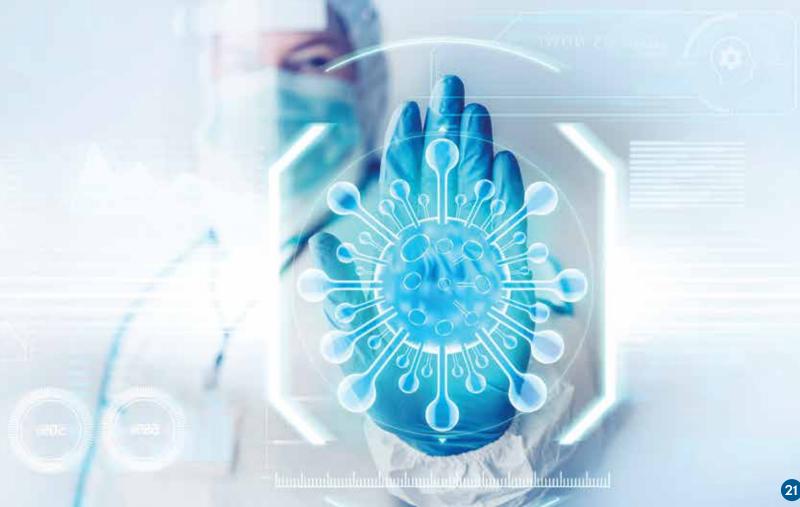


Chemiluminescence Immunoassay (CLIA) Lumivera Reagents

Lumivera Special Assays

- Comprehensive test menu to meet the different requirements of laboratories
- Convenient pack sizes
- Certified quality reagents RFID tagged reagent integral: All components including calibrators, diluents inside the cartridge itself (ready to use reagents)







HPLC

HPLC analyzer for HbA1c detection

NANO H5

- Compact, automated High Performance Liquid Chromatography (HPLC) analyzer
- Ion exchange liquid chromatography for quantitative determination of the glycated hemoglobin (HbA1c) with human whole blood
- Fast reporting, turnaround time less than 130 secs
- Fully automated loader 5 samples at a time
- Barcode scanner for sample identification
- NGSP & IFCC preferred methodology
- Inbuilt processor and large screen display
- Ideal for laboratories with small and medium workload



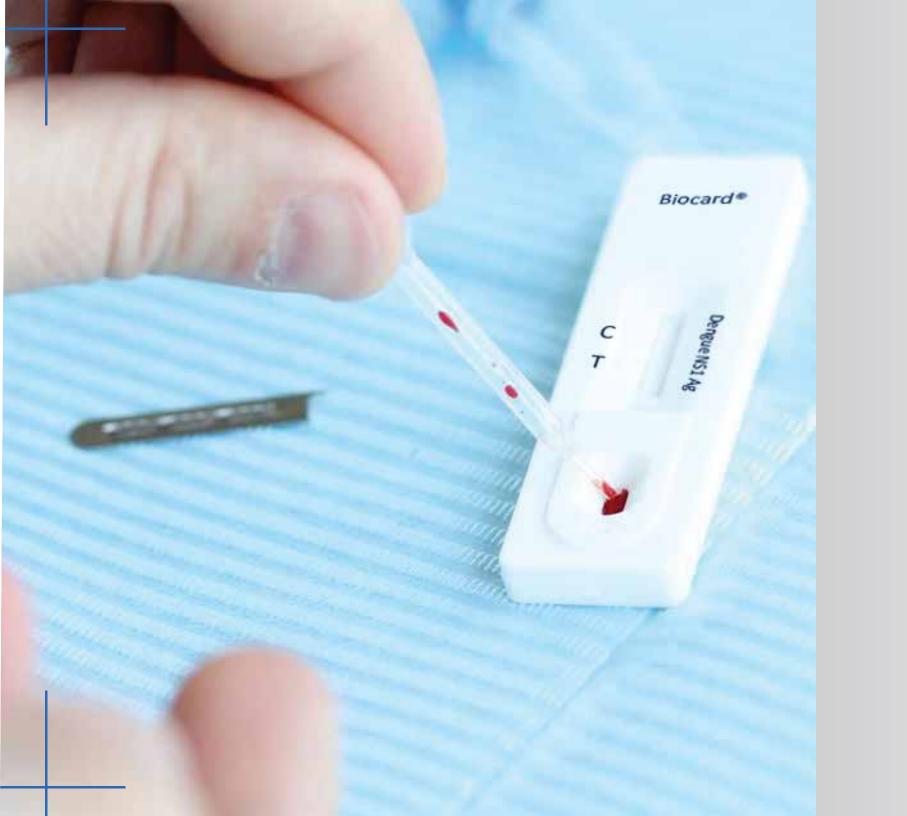


HPLC analyzer for HbA1c and Hb variant detection

NANO H110

- Compact, automated High Performance Liquid Chromatography (HPLC) analyzer with Hb variant detection
- Ion exchange chromatography testing & sampling system
- Fast reporting, turnaround time less than 130 secs
- Fully automated loader 110 samples at a time
- Dual mode hemoglobin & thalassemia
- NGSP & IFCC preferred methodology
- Inbuilt processor and large screen display
- Ideal for laboratories with small and medium workload





POINT OF CARETESTS

Biocard® Rapid Screening Assays

Biocard® HIV 1/2



- Qualitative detection of total antibodies against HIV (IgG, IgM, IgA)
- Differential detection of HIV-1 and 2 antibodies
- Test region 1 coated with recombinant antigen (gp 120 and gp41) for HIV-1 and test region 2 coated with (gp36) for HIV-2
- Specificity: 100% Sensitivity: 100%

Biocard® HBsAg

- Principle of antibody sandwich method simplified procedure
- Convenient pack sizes available
- Storage at 4-30°C
- Analytical sensitivity of 0.5 ng/mL
- Higher shelf Life of 18 months
- Sensitivity > 99.2% Specificity > 99.2%



Biocard® HCV



- Qualitative detection of anti-HCV antibodies
- Test region coated with mixture of immuno-reactive recombinant HCV antigens (Core NS3, NS4 and Ns5)
- Specificity: 100% Sensitivity: 100%

Biocard® Syphilis

- Sandwich immunochromatographic assay
- Pre-coated with recombinant treponemal antigens (Tp 15, Tp 17, Tp 47)
- Syphilis antibodies detection with Human Serum / Plasma / whole blood
- Storage at 4 30°C
- Sample volume :- $10 \mu l$ Serum/Plasma or $20 \mu l$ whole blood
- Buffer volume :- 2 drops
- Interpretation of result :- 20 minutes
- Sensitivity:- 100% Specificity:- 100



Biocard® Dengue NS1



Rapid solid phase Immuno-chromatographic test for the qualitative detection of Dengue NS1 Antigen in Human Serum / Plasma

Biocard® Dengue IgG & IgM



Rapid Test Kit is a rapid immunochromatographic assay for the qualitative and differential detection of IgG and IgM antibodies to Dengue virus in the human whole blood/serum/plasma.

Biocard® Dengue Ag-Ab Combo



Rapid solid phase Immuno-chromatographic test for the qualitative detection of Dengue NS1 Ag & IgG/IgM Ab in Human Serum/Plasma

Biocard® Malaria Pf/PAN



An immunochromatographic qualitative detection assay for four types of circulating malarial plasmodium species: P.falciparum, P.vivax, P.ovale, P.malariae antigens in whole blood.

It is coated with target antigen anti-HRP-II (histidine rich protein) for Plasmodium falciparum and Anti-plasmodium lactate dehydrogenase(pLDH) for Plasmodium vivax, Plasmodium ovale , Plasmodium malariae (Pv / mixed infection)

Biocard® Malaria Pf/Pv Ag

An immunochromatography, qualitative analysis test kit for Plasmodium falciparum & Plasmodium vivax antigens detection in whole blood.

It is coated with target antigen anti-HRP-II (Histidine Rich Protein) for Plasmodium falciparum and Anti-plasmodium lactate dehydrogenase(pLDH) for Plasmodium vivax.



Biocard® Sickle Cell



Qualitative detection of Sickle Cell with Human Whole Blood Sample



MOLECULAR DIAGNOSTICS

Molecular Diagnostics

Oligo Synthesis

Trivitron's R&D and manufacturing facilities have successfully developed oligonucleotide in-house (Oligo Sure). These can be custom synthesized as per the specific requirement of the users. Oligos are conventionally used in PCR & RT-PCR Kits, gene Sequencing Kits, cloning, and positive as well as negative controls. Apart from oligonucletides, trivitron is fully equipped to custom synthesise various probes and enzyme master mixes which are used for all molecular downstreaming processes. In addition to these components trivitron also provides magnetic beads (mag bead sure) which can be used for extraction processes.



Molecular Diagnostics Assays

Molecular diagnostic tests detect specific sequences in DNA or RNA that may or may not be associated with disease. These tests play a key role in infectious diseases, oncology, genetic disorders screening that helps to guide appropriate therapy by identifying specific disease. Currently, trivitron caters to a wide array of PCR kits for COVID (COVID Sure) for proper detection of COVID-19 infection.

Trivitron is committed in offering comprehensive molecular diagnostic solutions for the diagnosis and monitoring of various disorders and diseases.

COVIDsure RT PCR Kit

RT-PCR kit intended for in-vitro detection of COVID-19 (SARS-CoV-2) in respiratory specimens



Monkeypox RT PCR Kit

Early detection kit to fight against the Monkeypox Virus



Triple H (HIV/HCV/HBV)

Multiplex Real Time PCR Kit. Ready-to-use kit with Internal Positive and Negative Controls



HPV RT PCR Kit

Singleplex Real Time PCR Kit. Ready-to-use kit with Internal Positive and Negative Controls



MTB RT PCR Kit

Singleplex Real Time PCR Kit for sensitive detection of MTB



JAK2 Kingse RT PCR Kit

Multiplex RT PCR kit for sensitive detection of V617F mutation and wild type alleles

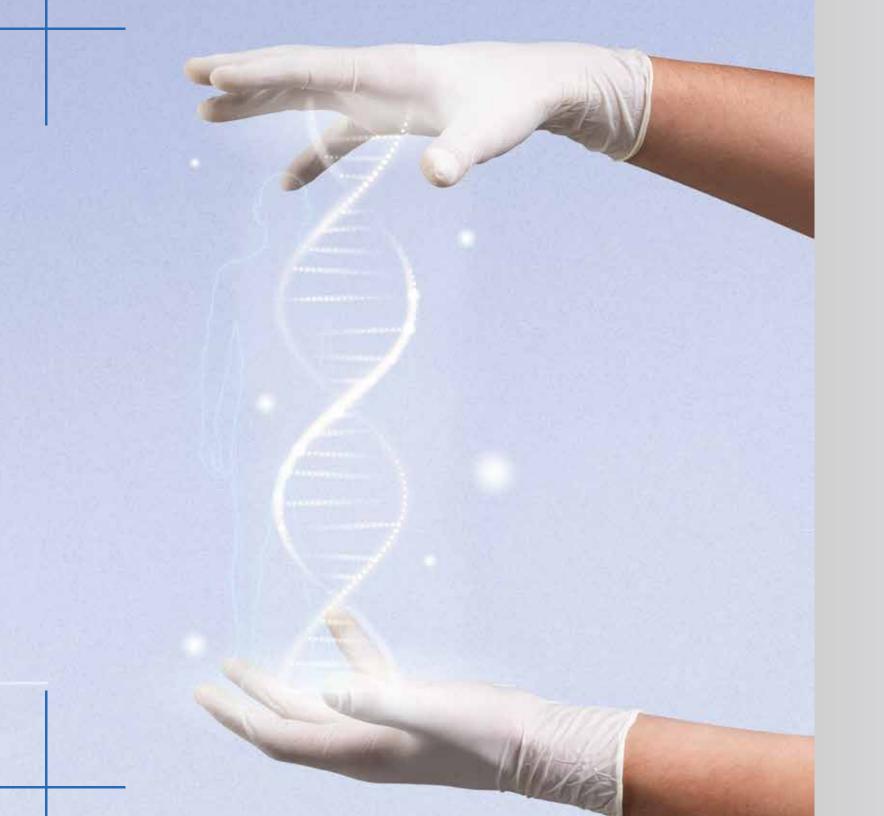


BCR-ABL Multiplex RT PCR Kit

Multiplex RT PCR kit for sensitive detection of all Major, Minor, Micro







NEXT GENERATION SEQUENCING

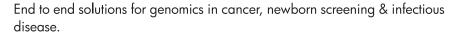
GenomeSure

1st Make in India kit for screening of 28 Lysosomal Storage Disorder (LSD) by Next Generation Sequencing (NGS)

- Based on a unique patented technology of single-molecule molecular inversion probe
- More than 500 patients screened by this technology
- Technology developed by the Institute of Human Genetics (IHG) and DECIPHER DNA
- Semi-automated bioinformatics pipeline for ease of analysis and interpretation
- Assess both SNV and CNV in the same test







- tNGS LSD panel
- tNGS cancer panels Cancer 50, BRCA Panel, Lung Cancer Panel, Colorectal cancer panel
- Sepsis/AMR
- Newborn screening

tNGS LSD Panel

1st Make-in-India kit for diagnosis of 28 Lysosomal Storage Disorders (LSD) by Next-Generation Sequencing









NEWBORN SCREENING

Semi Automated NBS Instrument

Photometry (EIA)



- Compact foot print
- Robust with high quality performance
- Individual modules can be used for other requirements in the laboratory wherever needed

192 Wells

NeoScreen TSH | NeoScreen 17 OHP | NeoScreen G6PD | NeoScreen Galactose NeoScreen IRT | NeoScreen Phenylalanine* | NeoScreen Biotinidase*

*Under development

Semi Automated NBS Instrument

Fluorometry (FIA)



- Robust with high quality performance
- Automated punching and removal of disc
- Individual modules can be used for other requirements in the Laboratory wherever needed

960 Wells

Neonatal hTSH FEIA Plus | Neonatal Phenylalanine | Neonatal 17-OH-Progesterone FEIA | Neonatal IRT FEIA Neonatal G6PD | Neonatal Galactose | Neonatal Biotinidase | Neonatal Toxoplasma gondii IgM FEIA

Photometry Test Kits (EIA)







NeoScreen 17-OHP



NeoScreen IRT EIA



NeoScreen Galactosemia



NeoScreen G6PD

Fluorometry Enzymatic Immunoassays Kits (FEIA)



Neonatal TSH



Neonatal IRT



Neonatal 17-OHP



Neonatal T4



Neonatal Toxoplasma gondii IgM

Fluorometry Enzymatic Assay



Neonatal Phenylalanine



Neonatal G6PD



Neonatal Total Galactose (TGAL)



Neonatal Galactose Transferase (GALT)



Neonatal Biotinidase

Newborn Screening

Fully Automated NBS Instrument

NS2400

Labsystems, Finland



- High-end robotic platform to facilitate automatic processing of NBS assays
- High-throughput system with a maximum capacity of 25 plates
- A see-through system with "Freedom EVOware Plus" for process controlling
- Alarm activation facility in case of instrumental error or operational mistakes
- Compatible labsystems FEIA-based NBS kits for NS2400 automate/modular System



High-Precision Robotic Manipulator (RoMa)



Unique Liquid Handling System (LiHa)

NBS MS/MS Kit

NeoMass AAAC Plus

Single protocol and single injection for all analytes, including SUAC.



CAH-Mass LC-MS Kit (Coming soon)
Second-tier testing for congenital adrenal hyperplasia in dried blood spot

NBS aPCR Kit

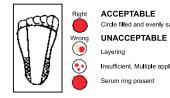
SCID-SMA Multiplex Real time PCR (Coming Soon) Rapid and simultaneous detection of severe combined immunodeficiency (SCID) syndrome

combined immunodeficiency (SCID) syndrome and spinal muscular atrophy (SMA)



Filter Paper



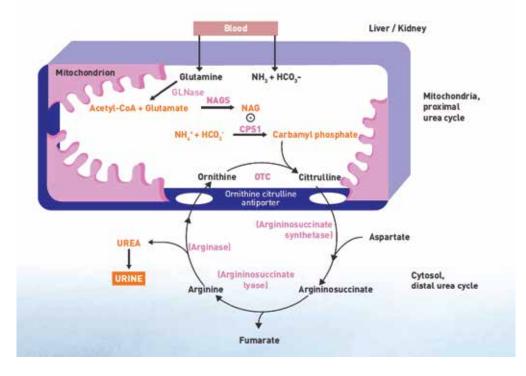


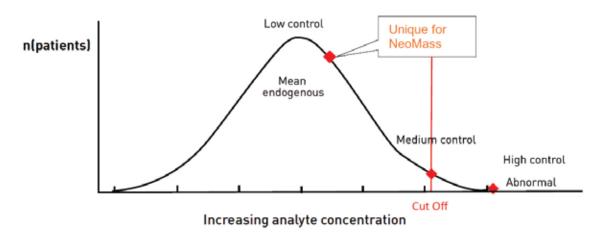
- CDC and WHO recommended 903 grade filter paper for new born screening sample collection
- Clearly printed expiry date and lot number in every DBS card
- 5 Circles with size of half inch (13mm) circle Ensure the maximum 35 sampling from the single card
- Each circle can hold 75 80µL of blood sample
- Wrap around card protect the sample from unwanted exposure to environment and touching other samples
- Specific place for serial number and or Barcode sticker To ensure the positive identification of sample
- Specific Columns to record the demographic and clinical condition of the babies
- Specific column to record the information on sample reception condition

NEOMASS AAAC LC-MS/MS Kit

PATENTED INNOVATION

Labsystems, Finland





- NeoMass AAAC Plus is based on LC-MS/MS to detect inborn errors of metabolism from dried blood spots
- Ready-to-use kit for 960 tests
- 4 simple steps: Punching, Extraction, Transfer, Injection into MS/MS
- Non Derivatized kits
- 4 sets of labelled isotope internal standards for quantitation of 15 amino acids, free carnitine, 12 acylcarnitines, succinylacetone (SUAC) and argininosuccinic acid (ASA)
- NeoMass AAAC Plus innovation enables measuring distal UCD (ASS, ASL and ARG1 deficiencies) as well as New Patented methodology to measure proximal UCD (NGS, CPS1 and OTC), covering the whole urea cycle
- NeoMass AAAC Plus measure all analytes in single injection/single run with shortest extraction time
- 3 levels of dried blood spot controls covering the decisional cut-off area for each of the matching internal standards.
- Turnaround time for 96 samples in approximately 3 hours



Global Footprint

CORPORATE OFFICES:

Chennai:

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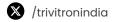
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