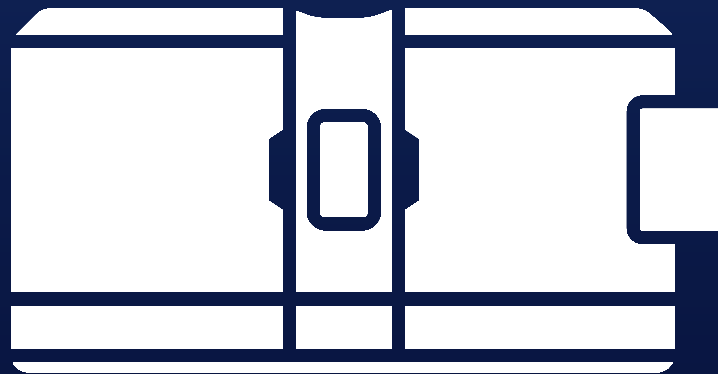


RAN**DO**X

RAN**DO**X DISCOVERY

The Benchtop Lab



DISCOVER THE FUTURE OF IMMUNOASSAY & MOLECULAR DIAGNOSTICS

DISCOVER THE FUTURE OF IMMUNOASSAY & MOLECULAR DIAGNOSTICS



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DISCOVER HOW YOU CAN IMPROVE WORKFLOW AND EFFICIENCY

The Radox Discovery is an exciting and disruptive analyser capable of consolidating molecular and immunoassay testing on one compact benchtop platform.



MULTIPLEX TESTING

Simultaneous detection of hundreds of targets from a single patient sample via patented biochip technology.



LABOUR SAVINGS

Fully automated platform increasing operator walkaway time. A single operator is all that's required to run up to 3 Discovery analysers.



RAPID RESULTS

Three hours to first batch of results with results for subsequent batches every hour after. Each batch may contain up to 16 patient samples.



TEST MENU

Our flexible test menu comprises immunoassay and molecular diagnostic assays.



WORKFLOW CONSOLIDATION

The Randox Discovery consolidates the workflow of multiple laboratories into a single walkaway, benchtop platform. This minimizes the workload of laboratory personnel, as only the patient samples and relevant consumables need to be loaded onto the platform.



USER-FRIENDLY

Simple and easy to use. Intuitive user interface guides the operator through the entire testing process.

DISCOVER THE POWER OF RANDOX BIOCHIP TECHNOLOGY

Biochip Technology delivers many benefits to the modern laboratory



Test for hundreds of targets at once for superior patient profiling



Multiplex testing reduces the amount of time and labour spent on individual tests



Identify co-infections and differentiate between pathogens that exhibit similar symptoms

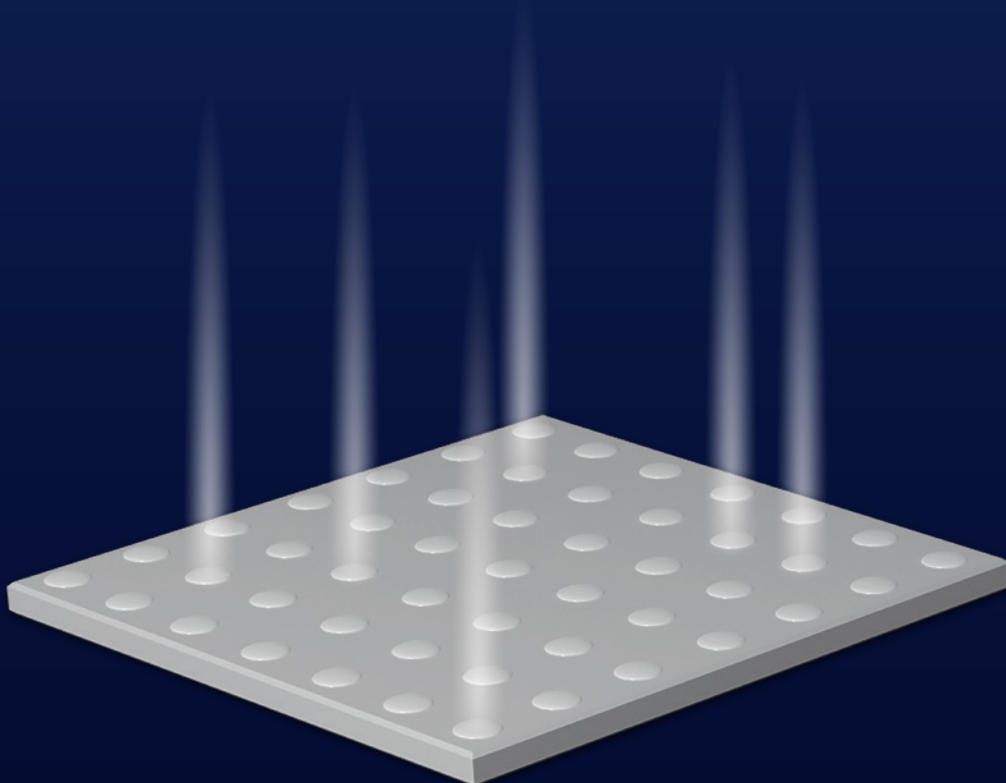


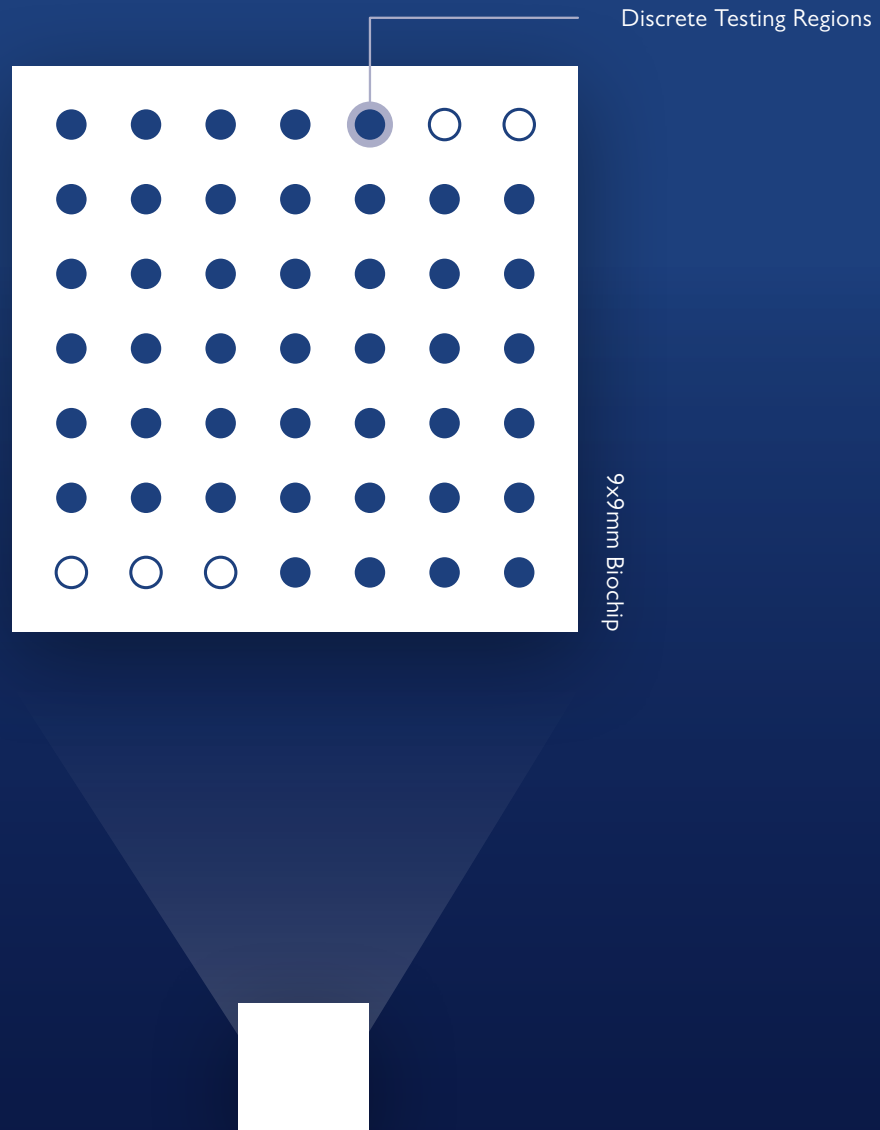
Accurate results, Biochip Technology is currently being used in the UK's national COVID-19 testing programme



A single patient sample is all that's required, no need to aliquot or re-collect

Radox patented Biochip Technology allows simultaneous detection of multiple targets from a single patient sample. The biochip detection system is based on a chemiluminescent signal, this is the emission of light, without heat, as a result of a chemical reaction.





HOW IT WORKS

Each biochip is prefabricated with spatially discrete testing regions (DTR's). Each DTR represents an individual test. Each DTR can be occupied with oligonucleotides specific to a pathogen or target of interest or an antibody for immunoassay testing. The Hi-Plex capabilities of Biochip Technology eliminates the need to run multiple time consuming and sample intensive assays.

An enzyme is used to catalyse the chemical reaction of the biochip which generates the chemiluminescent signal. The light emitted from the chemiluminescent reaction that takes place in each DTR is simultaneously detected and quantified using a Charge – Coupled Device (CCD) Camera. This CCD Camera simultaneously records the light emission from all the DTRs on each biochip. The Randox Discovery automatically generates a result report for all targets.

DISCOVER OUR COMPREHENSIVE TEST MENU



DISCOVER OUR COMPREHENSIVE TEST MENU



SARS-COV-2 ARRAY

The SARS-CoV-2 Array detects both SARS-CoV-2 (COVID-19) and Sarbecovirus (confirmatory target), to report COVID-19 positive patient samples.

PATHOGENS

SARS-CoV-2 (COVID-19)

Sarbecovirus (SARS, SARS Like, SARS-CoV-2)



EXTENDED CORONAVIRUS ARRAY *In Development

The Extended Coronavirus Array detects SARS-CoV-2 (COVID-19) in addition to 9 other related respiratory infections. This provides precise diagnostics enabling targeted treatment.

PATHOGENS

SARS-CoV-2 (COVID-19)

Enterovirus A/B/C

Influenza B

Adenovirus A/B/C/D/E

Coronavirus 229E/NL63

Middle East Respiratory

Sarbecovirus

Influenza A

Syndrome Coronavirus (MERS-CoV)

(SARS, SARS like, SARS-CoV-2)

Coronavirus OC43/HKUI

Rhinovirus A/B



RESPIRATORY TRACT INFECTION ARRAY (RTI) *In Development

The Respiratory Tract Infection Array is the most comprehensive screening test for infections of both the upper and lower respiratory tracts. It simultaneously detects 14 viral and 8 bacterial infections. The test can be carried out with nasopharyngeal swabs, sputum or bronchoalveolar lavage (BAL).

VIRAL

Influenza A

Coronavirus OC43/HKUI

Parainfluenza virus 3

Influenza B

Enterovirus A/B/C

Parainfluenza virus 4

Adenovirus A/B/C/D/E

Metapneumovirus

Respiratory syncytial virus A/B

Bocavirus 1/2/3

Parainfluenza virus 1

Rhinovirus A/B/C

Coronavirus 229E/NL63

Parainfluenza virus 2

BACTERIAL

Bordetella parapertussis

Haemophilus influenzae

Mycoplasma pneumoniae

Bordetella pertussis

Legionella pneumophila

Streptococcus pneumoniae

Chlamydia pneumoniae

Moraxella catarrhalis



CHRONIC LUNG INFECTION (CLI) ARRAY ^{*In Development}

The Chronic Lung Disease array is a world leading multiplex test, detecting 132 species associated with long term lung disease e.g. Cystic Fibrosis and Chronic Obstructive Pulmonary Disease (COPD). The 132 species are simultaneously detected across this 32-plex array and includes bacterial, viral, fungal targets and an antibiotic resistance marker from a single sputum sample. Furthermore, the MecA antibiotic resistance marker is included to assist antibiotic stewardship.

VIRAL

Adenovirus	Respiratory syncytial virus B	Influenza virus B
Metapneumovirus	Rhinovirus A/B/C	
Respiratory syncytial virus A	Influenza virus A	

BACTERIAL

<i>Achromobacter xylosoxidans</i>	<i>Moraxella catarrhalis</i>	<i>Pseudomonas aeruginosa</i>
<i>Bordetella pertussis</i>	<i>Mycoplasma pneumoniae</i>	<i>Staphylococcus aureus</i>
<i>Burkholderia cepacia complex</i> (21 spp)	<i>Non-tuberculous mycobacterium</i> (15 spp)	<i>Stenotrophomonas maltophilia</i>
<i>Burkholderia cenocepacia</i>	<i>Mycobacterium avium complex</i> (4 spp)	<i>Streptococcus pneumoniae</i> (21 spp)
<i>Chlamydia pneumoniae</i>	<i>Pandora species</i> (5 spp)	<i>Streptococcus species</i> (19 spp)
<i>Haemophilus influenzae</i>	<i>Prevotella species</i> (16 spp)	<i>Veillonella species</i> (3 spp)

FUNGAL

<i>Aspergillus fumigatus</i>	<i>Exophiala dermatitidis</i>
<i>Candida albicans</i>	<i>Scedosporium species</i> (7 spp)

ANTIBIOTIC RESISTANCE MARKERS

mecA (incl MRSA)



SEXUALLY TRANSMITTED INFECTION (STI) ARRAY *In Development

The Sexually Transmitted Infection Array (STI) is the broadest STI screen on the market, simultaneously detecting 10 bacterial, viral and protozoan infections for a comprehensive sexual health profile.

PATHOGENS

<i>Chlamydia trachomatis</i> (CT)	<i>Treponema pallidum</i> (Syphilis) (TP)	<i>Mycoplasma hominis</i> (MH)
<i>Neisseria gonorrhoea</i> (NG)	<i>Herpes simplex virus 1</i> (HSV-1)	<i>Ureaplasma urealyticum</i> (UU)
<i>Trichomonas vaginalis</i> (TV)	<i>Herpes simplex virus 2</i> (HSV-2)	
<i>Mycoplasma genitalium</i> (MG)	<i>Haemophilus ducreyi</i> (HD)	



URINARY TRACT INFECTION (UTI) ARRAY *In Development

The Urinary Tract Infections (UTI) array is a market leading test which detecting 30 bacterial, fungal and associated antibiotic resistance markers from a single urine sample. Identification of a multiplex UTI can prevent further damage to the renal system including the kidneys and bladder. The various antibiotic resistance markers are included to assist antibiotic stewardship.

BACTERIAL

<i>Acinetobacter baumannii</i>	<i>Escherichia coli</i>	<i>Providencia stuartii</i>
<i>Citrobacter freundii</i>	<i>Klebsiella oxytoca</i>	<i>Serratia marcescens</i>
<i>Citrobacter koseri</i>	<i>Klebsiella pneumoniae</i>	<i>Staphylococcus aureus</i>
<i>Klebsiella aerogenes</i>	<i>Morganella morganii</i>	<i>Staphylococcus epidermidis</i>
<i>Enterobacter cloacae</i>	<i>Proteus spp.</i>	<i>Staphylococcus saprophyticus</i>
<i>Enterococcus faecalis</i>	<i>Pseudomonas aeruginosa</i>	<i>Streptococcus agalactiae</i> (GBS)
<i>Enterococcus faecium</i>	<i>Providencia rettgeri</i>	

FUNGAL

Candida albicans

ANTIBIOTIC RESISTANCE MARKERS

<i>mecA</i> (incl MRSA)	Trimethoprim Resistance 3	Trimethoprim Resistance 5
Trimethoprim Resistance 1	S <i>mecA</i> (incl MRSA)	Van A (Vancomycin Resistance A)
Trimethoprim Resistance 2	Trimethoprim Resistance 4	Van B (Vancomycin Resistance B)

**KRAS, BRAF, PIK3CA ARRAY** *In Development

The KRAS, BRAF, PIK3CA Array simultaneously detects 20 point mutations within the KRAS, BRAF and PIK3CA genes for rapid patient profiling.

KRAS GENE TARGETS

G12A	G13D	Q61H(1)
G12R	G13C	Q61H(2)
G12D	G13R	A146T
G12C	Q61K	A146P
G12S	Q61L	
G12V	Q61R	

BRAF GENE TARGET

V600E/G12R

PIK3CA GENE TARGETS

E542K E545K H1047R

**CARDIAC RISK PREDICTION** *In Development

Radox has developed a rapid array which will allow all 19 SNPs to be genotyped simultaneously, which incorporates a test to identify patients predisposed to statin induced myopathy.

TARGET	SNP	TARGET	SNP
MIA3*	rs17465637	LPA*	rs3798220
9p21	rs10757274	LPA*	rs10455872
DAB2IP	rs7025486	MRAS*	rs9818870
CXCL12	rs1746048	LPL*	rs328
ACE	rs4341	LPL	rs1801177
NOS3	rs1799983	SORT1*+	rs646776+
APOA5	rs662799	PCSK9	rs11591147
SMAD3	rs17228212	APOE*	rs429358
APOB*	rs1042031	APOE*	rs7412
CETP	rs708272		


FAMILIAL HYPERCHOLESTEROLEMIA *In Development

The Familial Hypercholesterolemia (FH) Arrays I & II are rapid, simple and accurate diagnostic tests which enable simultaneous detection of 40 FH-causing mutations (20 mutations per array) within the LDLR, ApoB and PCSK9 genes

LDLR 38 mutations

APOB 1 mutation

PCSK9 1 mutation

FH ARRAY I MUTATION COVERAGE
APOB

MUTATION	PROTEIN
c.10580G>A	p.(Arg3527Gln)

LDLR

MUTATION	PROTEIN
c.2292delA	p.(Ile764Metfs*2)
c.1444G>A	p.(Asp482Asn)
c.551G>A	p.(Cys184Tyr)
c.1845+11C>G	p.(=)
c.693C>A	p.(Cys231*)
c.933delA	p.(Glu312Serfs*58)
c.301G>A	p.(Glu101Lys)
c.313+1G>A	p.(=)
c.1706-1G>A	p.(=)
c.1706-1G>A	p.(Cys677Arg)
c.2029T>C	p.(Pro685Leu)
c.2054C>T	p.(Trp483Arg)
c.1447T>C	p.(Gly478Arg)
c.1447T>C	p.(Asp72Thrfs*134)
c.214delG	p.(Trp87Gly)
c.259T>G	p.(Arg633Cys)
c.1897C>T	p.(Asp227Glu)
c.681C>G	p.(Asn688Glnfs*29)

PCSK9

MUTATION	PROTEIN
c.1120G>T	p.(Asp374Tyr)

FH ARRAY II MUTATION COVERAGE
LDLR

MUTATION	PROTEIN
c.1285G>A	p.(Val429Met)
c.680_681delAC	p.(Asp227Glyfs*12)
c.1187-10G>A	p.(=)
c.1048C>T	p.(Arg350*)
c.118delA	p.(Ile40Serfs*166)
c.1168A>T	p.(Lys390*)
c.232C>T	p.(Arg78Cys)
c.1587-1G>A	p.(=)
c.1706-10G>A	p.(=)
c.1796T>C	p.(Leu599Ser)
c.1436T>C	p.(Leu479Pro)
c.1474G>A	p.(Asp492Asn)
c.501C>A	p.(Cys167*)
c.662A>G	p.(Asp221Gly)
c.682G>T	p.(Glu228*)
c.1150C>T	p.(Gln384*)
c.938G>A	p.(Cys313Tyr)
c.136T>G	p.(Cys46Gly)
c.2042G>C	p.(Cys681Ser)
c.1618G>A	p.(Ala540Thr)



ACUTE KIDNEY INJURY ARRAY

Lipocalin (NGAL)	Clusterin
Cystatin C	Kidney Injury Molecule-1 (KIM-1)

ADHESION MOLECULES ARRAY

E-selectin	Intercellular adhesion molecule-1 (ICAM-1)	Vascular cell adhesion molecule-1 (VCAM-1)
P-selectin		
L-selectin		

ANAEMIA ARRAY

Ferritin	Folate	Vitamin B12
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ALZHEIMERS RISK ARRAY

Pan ApoE	ApoE4
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CARDIAC ARRAY

Creatine-Kinase Muscle Brain (CK-MB)	(H-FABP)	Troponin I
Heart-Type Acid Binding Protein	Myoglobin	

CEREBRAL ARRAY II

C-Reactive Protein (CRP)	Neutrophil Gelatinase-Associated Lipocalin (NGAL)	Soluble Tumour Necrosis Factor Receptor 1 (sTNFR1)
D-Dimer		
Neuron Specific Enolase (NSE)		



CHRONIC KIDNEY DISEASE ARRAY I

Epidermal Growth Factor (EGF)	Fatty Acid-Binding Protein I (FABPI)	Macrophage Inflammatory Protein-1 α (MIP-1 α)
Interlukin - 8 (IL-8)	Soluble Tumour Necrosis Factor Receptor II (sTNFRII)	
Soluble Tumour Necrosis Factor Receptor I (sTNFRI)	D-Dimer	

CHRONIC KIDNEY DISEASE ARRAY II

C-reactive Protein (CRP)	C3a Des Arg
Cystatin C	Neutrophil Gelatinase-Associated Lipocalin (NGAL)

CYTOKINE ARRAY I

Interleukin-1 (IL-1 α)	Interlukin - 8 (IL-8)	Tumour Necrosis Factor Alpha (TNF α)
Interlukin -1 β (IL-1 β)	Interlukin - 10 (IL-10)	Vascular Endothelial Growth Factor (VEGF)
Interlukin - 2 (IL-2)	Interferon Gamma (IFN γ)	
Interlukin - 4 (IL-4)	Human EGF (EGF)	
Interlukin - 6 (IL-6)	Monocyte Chemoattractant Protein (MCP-1)	

CYTOKINE ARRAY III

Interlukin - 5 (IL-5)	Granulocyte-macrophage Colony Stimulating Factor (GM-CSF)	Macrophage Inflammatory Protein-1 α (MIP-1 α)
Interlukin - 15 (IL-15)		

CYTOKINE ARRAY IV

Matrix Metalloproteinase-9 (MMP-9)	Soluble Tumour Necrosis Factor Receptor I (sTNFRI)	Soluble Tumour Necrosis Factor Receptor II (sTNFRII)
Soluble IL-2 Receptor α (sIL-2R α)		
Soluble IL-2 Receptor (sIL-6R)		



CYTOKINE ARRAY V

Interlukin - 3 (IL-3)

Interlukin - 12p70 (IL-12p70)

Interlukin - 23 (IL-23)

Interlukin - 7 (IL-7)

Interlukin - 13 (IL-13)

ENDOCRINE ARRAY

Cortisol (CORT)

17 α -Hydroxyprogesterone (17 α OHP)

Dehydroepiandrosterone-sulphate
(DHEAs)

Leptin

FERTILITY ARRAY

Follicle Stimulating Hormone (FSH)

Prolactin Hormone (PRL)

Estradiol (EST)

Luteinising Hormone(LH)

Progesterone (PROG)

GASTROPANEL ARRAY

Pepsinogen I (PGI)

Pepsinogen II (PGII)

Gastrin 17 (G17)

HELICOBACTER PYLORI ASSAY

Helicobacter Pylori (HP)

METABOLIC SYNDROME I ARRAY

Ferritin

Leptin

Tumour Necrosis Factor α (TNF α)

Interleukin-6 (IL-6)

Plasminogen Activator Inhibitor-I (PAI-I)

Insulin

Resistin

METABOLIC SYNDROME II ARRAY

Adiponectin

C-reactive Protein (CRP)

Cystatin C



PTH ASSAY

Parathyroid Hormone (PTH)

SHGB ASSAY

Sex Hormone-Binding Globulin (SHBG)

STROKE ARRAY

Soluble Tumour Necrosis Factor Receptor 1 (sTNFR1)	Fatty acid binding protein 3 (FABP3)	Nucleoside Diphosphate Kinase A (NDKA)
Glial fibrillary acidic protein (GFAP)	D-Dimer	Glutathione S-transferase, Pi (GSTP1)
Interleukin-6 (IL-6)	Parkinson Disease Protein 7 (PARK7)	

TESTOSTERONE ASSAY

Testosterone

THYROID TOTAL ARRAY

Total thyroxine (TT4)	Total tri-iodothyronine (TT3)	Thyroid stimulating hormone (TSH)
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THYROID FREE ARRAY

Free thyroxine (FT4)	Free tri-iodothyronine (FT3)	Thyroid stimulating hormone (TSH)
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THYROID AUTO ANTIBODY ARRAY

Anti-thyroglobulin (TgAb)	Anti-thyroid peroxidase Antibody (TPOAb)
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THYROID TBG ASSAY

Thyroxine Binding Globulin (TBG)

TISSUE DAMAGE ARRAY

Liver Fatty Acid Binding
Protein- I - FABP1

Epidermal Fatty Acid Binding
Protein - FABP5

Testis Fatty Acid Binding
Protein - FABP9

Heart-Type Fatty Acid-Binding
Protein - FABP3

Ileal Fatty Acid Binding Protein - FABP6

Brain Fatty Acid Binding

Adipose Fatty Acid Binding
Protein - FABP4

Protein - FABP7

TUMOR PSA ARRAY

Free Prostate Specific Antigen (fPSA)

Total Prostate Specific Antigen (tPSA)

Carcinoembryonic Antigen (CEA)

VITAMIN D ASSAY

Vitamin D



DRUGS OF ABUSE ARRAY ULTRA/DUID

Amphetamine	Dextromethorphan	Oxycodone I
Barbiturates	Fentanyl	Oxycodone II
Benzodiazepines I (Oxazepam)	Generic Opioids	Phencyclidine (PCP)
Benzodiazepines II (Lorazepam)	Meprobamate	Tramadol
Benzoylcegonine (Cocaine Metabolite)	Methadone	Tricyclic Antidepressants (TCA)
Buprenorphine	Methamphetamine	Zolpidem
Cannabinoids (THC)	Opiate	

NPS I

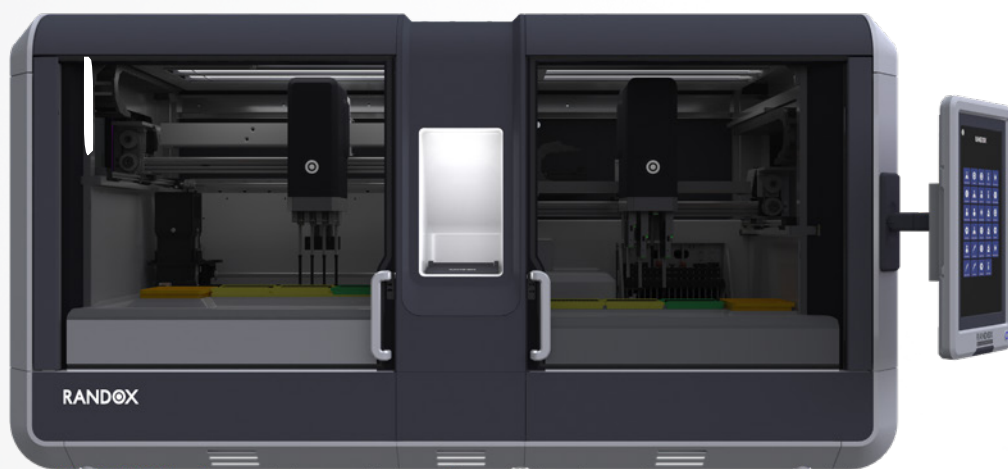
Bath Salts I (Mephedrone / Methcathinone)	Phenylpiperazines I	Synthetic Cannabinoids (AB-CHMINACA)
Bath Salts II (α -PVP / MDPV)	Phenylpiperazines II	Synthetic Cannabinoids (AB-PINACA)
Benzylpiperazines	Salvinorin	
Mescaline	Synthetic Cannabinoids (JWH-018)	
	Synthetic Cannabinoids (UR-144/XLR-11)	

NPS II

Acetylfentanyl	Clonazepam	Naloxone
AH-7921	Etizolam	Ocfentanyl
Buprenorphine	Furanylfentanyl	Sufentanil
Carfentanil/Remifentanil	Mitragynine	U-47700
	MT-45	W-19

DISCOVER THE POWER OF AUTOMATION

Randox Discovery is comprised of three interconnected modules which each operate independently performing different aspects of the diagnostic testing process. Each module is separated by a physical barrier to prevent contamination and is accessible via a door. The workflow process runs from right to left and is compatible with lean working principles.



MODULE III

Biochip Hybridisation & Detection

Module III is used in both immunoassay & molecular workflows and is responsible for hybridisation and subsequent detection using patented biochip technology. The detection camera uniquely moves between sample cartridges to detect biochip chemiluminescence.

MODULE II

Multiplex PCR

Module II is responsible for amplification of the extracted nucleic acid by End Point PCR. UV light is used to decontaminate the module and reduce the risk of crossover contamination.

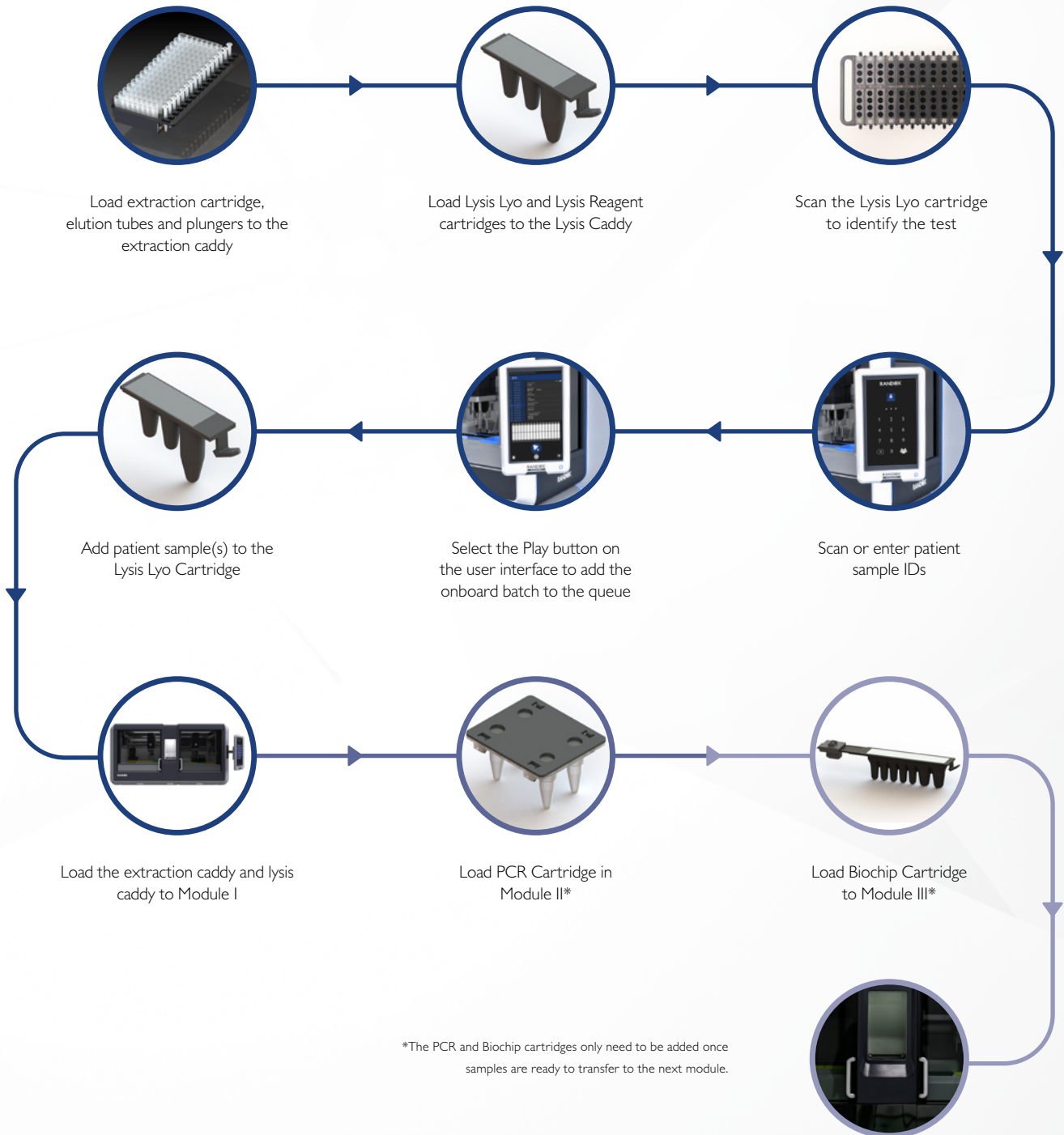
MODULE I

Nucleic Acid Extraction

Module I is responsible for DNA/RNA extraction. After extraction, DNA/RNA is automatically transferred to Module II. Before transfer, Module I detects the presence of Module II cartridges using a unique vision system.

DISCOVERY MOLECULAR WORKFLOW

The Radox Discovery is extremely easy to use with minimal training required. A simple 10 step process is all that's required, reducing operator workload and increasing walkaway time.



Close the door to each module. The on-board unique vision system will identify the batch and select it from the queued list and run automatically.

MOLECULAR KIT COMPONENTS



Lysis Lyo Cartridge



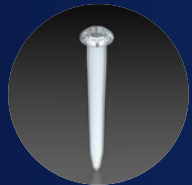
Lysis Reagent Cartridge



PCR Cartridge



Extraction Cartridge



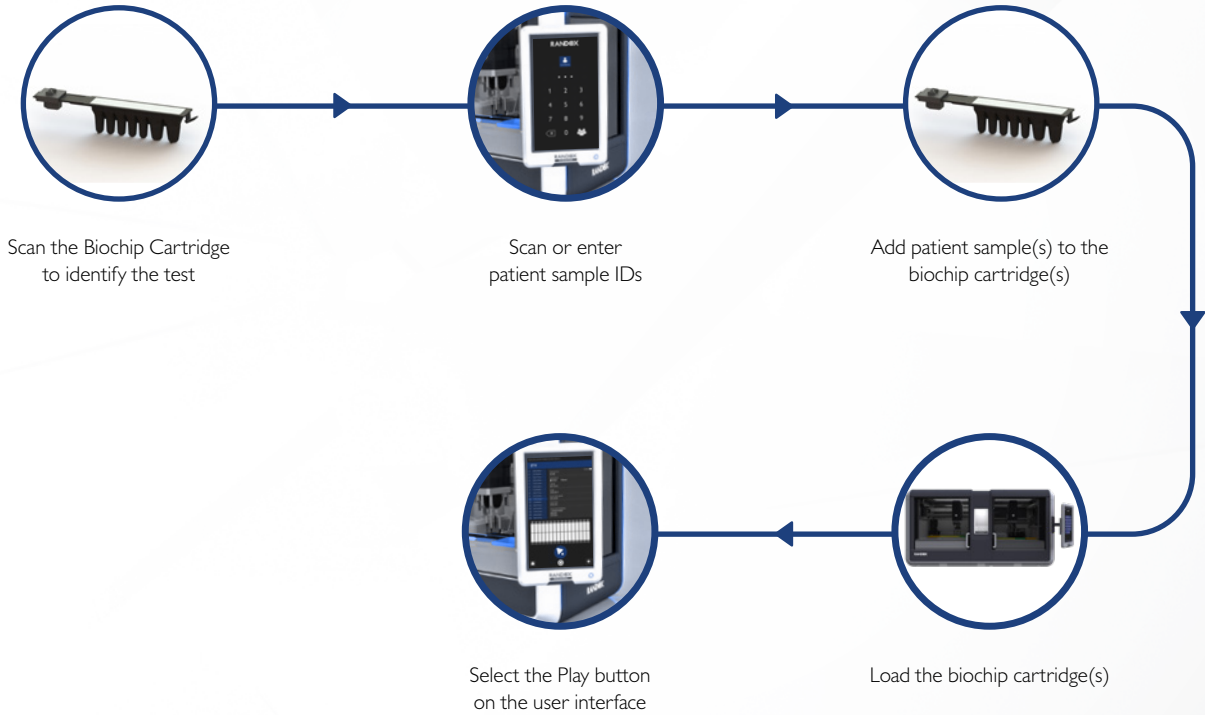
Plunger



Biochip Cartridge

DISCOVERY IMMUNOASSAY WORKFLOW

The Randox Discovery is extremely easy to use with minimal training required. A simple 5 step process is all that is required, reducing operator workload and increasing walkaway time.

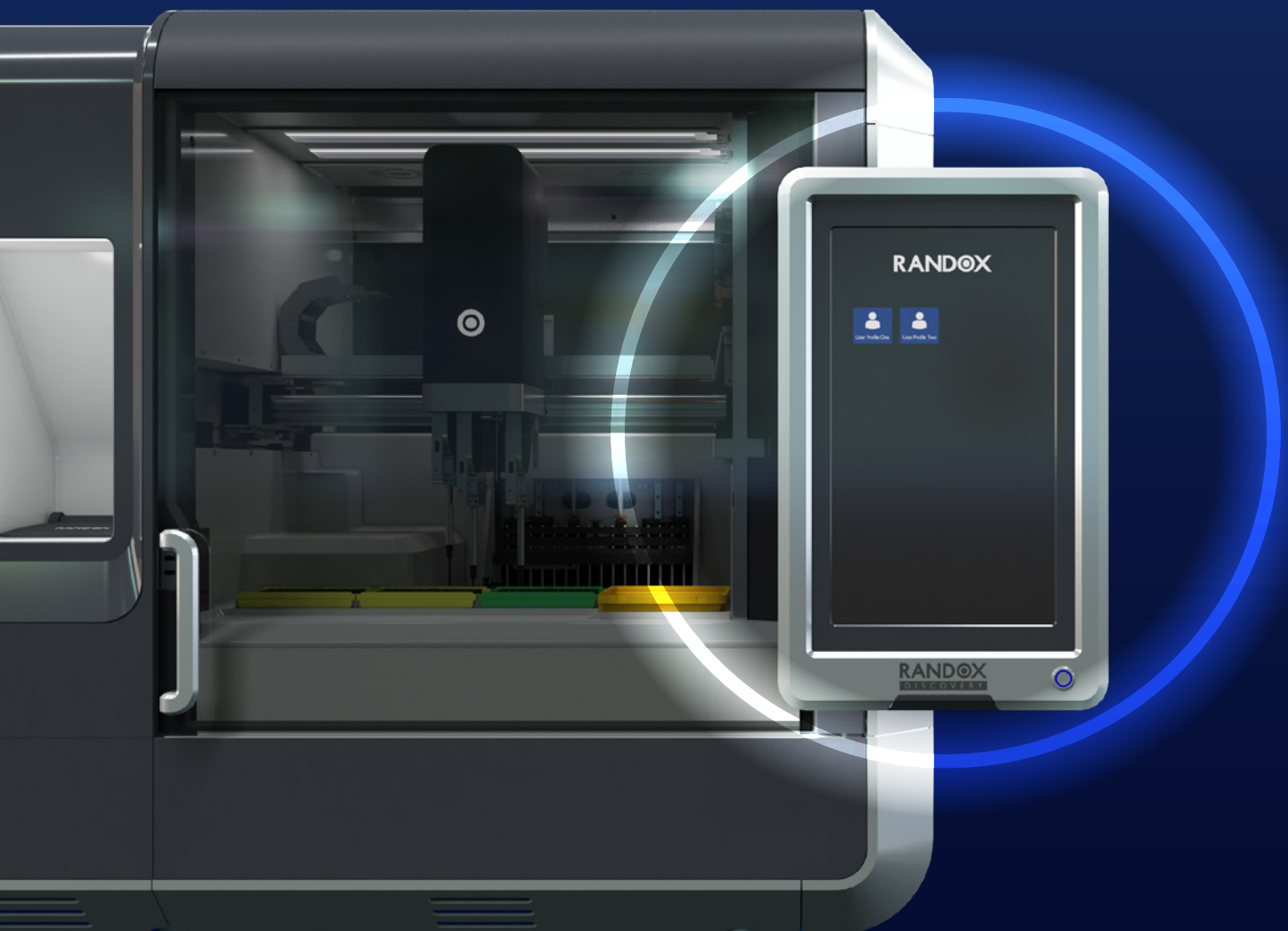


SOFTWARE

The Randox Discovery user interface has been designed to be intuitive and user-friendly. The icon based software is extremely easy to navigate and can be operated when using gloves for ultimate convenience. The smart software automatically alerts the user when consumables need replenished and when waste needs emptied.

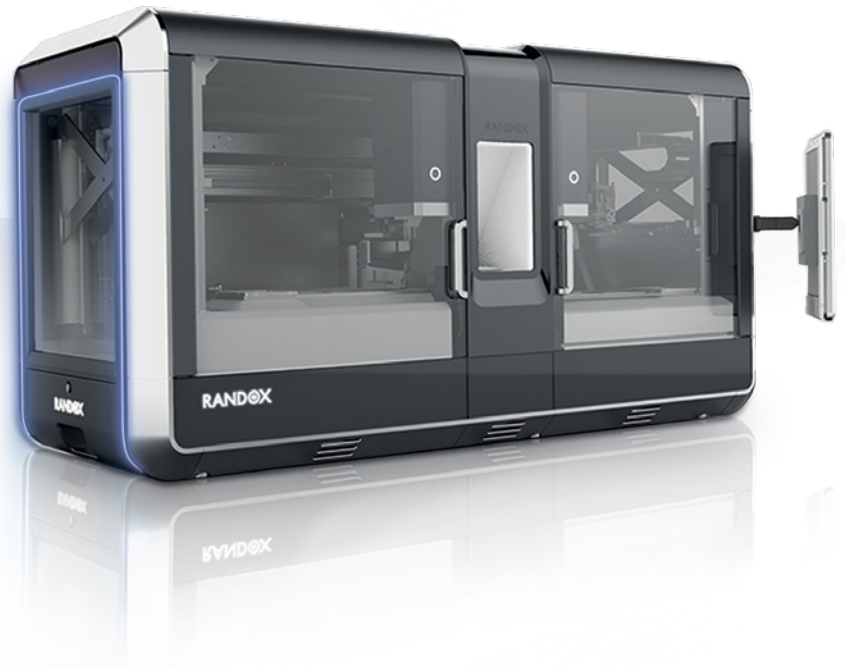
USER LOGIN SCREEN

After initialisation the operator will be presented with the User Login Screen. A list of all pre-registered users will be provided. Two role-based levels of user access are available; Admin and User ensuring access to only relevant information.





reddot winner 2021



DISCOVERY AT A GLANCE



Contamination is kept to a minimum through use of disposable tips, physical barriers between each zone, filtered fans to control transfer of contaminant aerosols between zones and UV light.



A minimal set up time of 10-15 minutes is all that is required for the Randox Discovery. This ensures workload optimisation and reduces laboratory down time.



A custom bench designed specifically for the Randox Discovery is an optional extra when purchasing the analyser.



Waste management is optimised on-board the Randox Discovery as waste bins are situated in each zone and are only required to be emptied periodically. Hands on time is reduced and the workflow of the analyser is optimised due to the intuitive management of waste.



Tip saver algorithm can be activated or deactivated depending on the test to reduce consumable costs.



The system utilises ready to use cartridge based prefabricated reagents meaning there is no off-board preparation required by the operator.

CUSTOMER SUPPORT



With almost 40 years' experience in the diagnostics industry, we fully understand the demands and needs of the laboratory. We recognise the importance of maintaining a consistent workflow of high quality results with minimum downtime. Our global network of highly trained engineers and customer support scientists are on hand to work with you in preserving the continuity of your operations while maximising the potential of your Randox instrument.

ORDERING INFORMATION

Randox Discovery

Product Code: RDCI0000

For more information contact your local representative, or email us at: market@randox.com

SERVICE OPTIONS

Designed to maximise uptime and laboratory productivity, the service drawer is located under the machine, meaning the Discovery does not have to be moved during service, reducing the time, tools and personnel required. Choose from one of three flexible service and support packages.



GOLD - *Fully Comprehensive*

This service package offers you complete peace of mind covering all maintenance work and any breakdowns on your Randox analyser - ultimately maximising analyser uptime and your testing capabilities.

- Fully comprehensive contract covering replacement parts and preventative maintenance
- Priority emergency breakdown cover
- Remote diagnostic and fault-finding support
- Fully comprehensive technical support
- Rapid and best in class response times
- Software updates



SILVER - *Preventative Maintenance*

The Randox silver package consists of maintenance and services to keep your analyser in excellent working condition.

- Preventative maintenance visits included
- Telephone support during normal working hours as required
- Prioritised response times



TECHNICAL SUPPORT - *Priority over non-contract customers*

Our focus is on providing you with world-class customer service and maintaining excellent relationships with all of our customers. We know time is critical in any laboratory and our global network means we are uniquely positioned to meet your needs with local service and support.

- Telephone and email support during normal working hours
- Technical troubleshooting
- Essential to ensure continuous productivity and analyser uptime
- Prioritised response times

SPECIFICATIONS

PHYSICAL DIMENSIONS

Width	1835mm
Depth	730mm
Height	950mm
Weight	250kg

PERFORMANCE CHARACTERISTICS

Throughput	<ul style="list-style-type: none"> • 48 patient samples in 5 hours (assay dependent) • Up to 16 samples per 'batch' run • Up to 3 'batch' runs on machine at one time • 3 hours to first 'batch' run results (assay dependent)
Analyser Type	Fully automated, benchtop molecular & immunoassay platform
Assay type	Molecular, Immunoassay
Sample Type	Nasopharyngeal & Oropharyngeal Swab, Urine, BAL, Sputum (Array Specific)
Maintenance	Preventative maintenance twice per year
Sample Volume	Array specific
Sample Identification	Barcode sample identification, manual entry
Sample Capacity	Each batch may contain up to 16 samples including controls
Decontamination	Contamination is kept to a minimum through use of disposable tips, physical barriers between each zone, filtered fans to control transfer of contaminant aerosols between zones and UV light.

REAGENTS

Reagent Identification	Barcode reagent identification
Reagent Type	Ready to use cartridge based prefabricated reagents
Reagent Pipette	The system uses disposable 1000ul and 50ul pipette tips to reduce contamination
Inventory	The system will alert the operator to shortages in consumables and when waste bins need changed

POWER & CONNECTIVITY

Power Requirements	208 – 240V, 13A Single Phase
Power Consumption	1800W peak
Permissible voltage variation	Variation: +/-10%
LIMS Connectivity	Yes

OPERATING SYSTEM

Operator Interface	Microsoft Windows IoT Kiosk. Touchscreen user-interface mounted to the analyser can be operated when wearing gloves. USB port allows easy retrieval of results and software updates to be made without an on site visit from a Randox engineer.
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QNOSTICS

Quality Control Solutions for Molecular Infectious Disease Testing

Qnostics is a leading provider of Quality Control solutions for Molecular Infectious Disease testing. Designed to meet the demands of today's molecular diagnostics laboratory and laboratories carrying out Nucleic Acid Testing (NAT), our range comprises hundreds of characterised viral, bacterial and fungal targets covering a wide range of Transplant Associated Diseases, Respiratory Diseases, Blood Borne Viruses, Sexually Transmitted Infections, Gastrointestinal Diseases and Central Nervous System Diseases.

As a provider of complete QC solutions, our products can be used in the daily monitoring of assay performance, linearity assessment, assay evaluation, validation/verification of new assays and staff training.

Q CONTROLS

Our range of positive run, whole pathogen, third party controls is designed to monitor assay performance on a daily basis. As true third-party controls, assay drift is detected, monitored and managed helping to ensure accurate and reliable results. The use of third party controls will also help to support ISO15189:2012 regulatory requirements.

ANALYTICAL Q PANELS

Analytical Q panels are designed to cover the dynamic range of an assay allowing assessment of the linearity, LOD and LOQ. Each panel contains a minimum of five samples spanning the dynamic range of the assay in a linear progression.

MOLECULAR Q PANELS

Molecular Q panels consist of three individual levels intended to evaluate the assays' analytical measuring range. Molecular Q panels can also be used to support laboratory training and in the assessment and development of molecular diagnostic assays from extraction phase through amplification and finally detection.

EVALUATION PANELS

Evaluation panels cover a range of genotypes and may be used to evaluate assay characteristics, confirm performance claims and ultimately ensure the assay is fit for purpose. Evaluation panels may also be used in the validation of clinical assays and the development of new diagnostic tests.

QCMD

EQA for Molecular Infectious Disease Testing

QCMD (Quality Control for Molecular Diagnostics) is an independent External Quality Assessment (EQA) / Proficiency Testing (PT) scheme specialising in molecular testing of a wide range of infectious diseases. External Quality Assessment (EQA) or Proficiency Testing (PT) provides a means of periodically assessing a laboratory's performance in comparison with other laboratories using the same method and instrument. Unlike Internal Quality Control (IQC), EQA provides an effective method of monitoring a laboratory's bias or accuracy through the analysis of 'blind samples'. Participation in an EQA scheme like QCMD will also support regulatory requirements and will assist in quality improvements.

Our portfolio comprises EQA programmes for over 90 viral, bacterial, fungal and parasitic pathogens including blood borne viruses, gastrointestinal diseases, respiratory pathogens, transplant associated diseases, sexually transmitted infections and exotic / emerging diseases.

BENEFITS



Extensive Programme Offering



Online EQA Management System



Frequent Reporting



High level of participation



High Quality Material



Comprehensive Reports



International Accreditation

RANDOX MOLECULAR PLATFORMS



EVIDENCE INVESTIGATOR

Evidence Investigator is a medium throughput platform capable of Hi-Plex and Lo-Plex molecular diagnostics. The Evidence Investigator utilises Biochip Technology which facilitates multiplex testing, and is suitable for a laboratory setting.



Extensive Test Menu



Superior Intelligence



Semi-Automated



VIVALYTIC

Vivalytic enables sample to answer, cartridge-based Molecular Diagnostic testing. The Vivalytic platform is capable of both Hi-Plex and Lo-Plex testing. Nucleic acid extraction, PCR amplification followed by a suite of detection methods are combined in a truly revolutionary, fully automated, near patient platform.



Fully Automated



User-Friendly



Workflow Consolidation

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