

RANDOX



EVIDENCE INVESTIGATOR

An Evidence Series Analyser

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DEDICATED TO IMPROVING HEALTH WORLDWIDE

In 2002, Randox invented a world first; Biochip Array Technology, instantly changing the landscape of testing forever. Biochip Array Technology is a multi-analyte platform which provides an unrivalled increase in information per sample. Instead of a sample needing to be subdivided for each test result, or in some cases re-collected, Biochip Array Technology offers a complete profile with each sample. So now the user's requirements become the focus as Biochip Array Technology delivers the results profile needed for improved diagnosis.

With over £250 million invested into Biochip Array Technology research and development, Randox have launched a range of Biochip Array Technology immunoanalysers – The Evidence Series. This includes the Evidence, the Evidence Evolution, the Evidence Investigator and the Evidence MultiSTAT. Each analyser is developed with boundary pushing engineering, designed to make financial, labour and time savings for the end user.

THE EVIDENCE SERIES



Evolution



Evidence+



Investigator



MultiSTAT

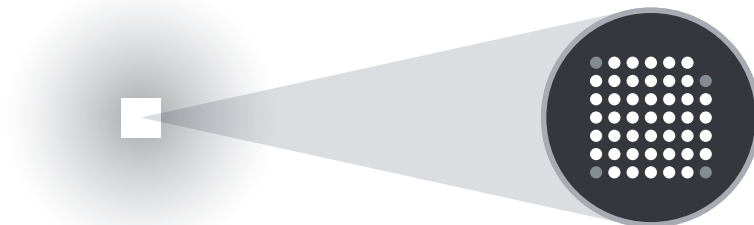
BIOCHIP ARRAY TECHNOLOGY



Biochip Array Technology is a precision multiplex testing platform allowing for the simultaneous quantitative or qualitative detection of a wide range of analytes from a single sample.

Biochip Array Technology offers unique immunoassay-based diagnostic testing for simultaneous multi-analyte biomarker detection. After the addition of a sample to the biochip, analytes present in the sample bind to the specific biochip bound ligands. The degree of binding is determined using a chemiluminescent light source and quantified using a Charge Coupled Device (CCD) camera and imaging system.

Each biochip can have up to 49 Discrete Test Regions (DTR). This means that up to 44 tests can be carried out simultaneously. The additional DTRs are reserved for internal quality control and visual reference, a unique Biochip Array Technology feature.



APPLICATIONS

- Clinical Diagnostics
- Drug Development
- Molecular Diagnostics
- Toxicology
- Food Diagnostics; for the presence of veterinary drug residues and mycotoxins
- Academic Research
- Veterinary Testing

MULTIPLEX TECHNOLOGY



Precise Testing

- Biochip Array Technology has a proven high standard of precise test results
- Multiplex analysis minimises analytical variation between tests



Optimum Efficiency

- Dedicated multi-analyte reagents and quality control material are manufactured by Randox providing reliable and controlled testing
- This ensures Biochip Array Technology is a truly effective end-to-end solution



True Cost Reduction

- Multiplex testing reduces the amount of time and labour spent on individual tests as well as associated laboratory costs
- Through running tests simultaneously, multiplex testing represents greater value for money as fewer samples and consumables are able to deliver more in-depth analysis



Superior Patient Profiling

- Testing for multiple markers simultaneously increases the amount of information rapidly available to the clinician, allowing for more informed diagnosis

FLEXIBILITY



Small Sample Volume

- A smaller sample volume required due to multiplexing
- Increased profiling saves precious sample if further reflex analysis is required



Wide and Varied Test Menu

- Randox's vast Biochip Array Technology test menu allows users to detect routine and novel markers for advanced diagnostic and research analysis
- Randox has the world's most innovative test development program. With 400 assays in development, Biochip Array Technology ensures you are able to effortlessly add to your testing program



Adaptability

- Multiple sample types can be used on one analyser including serum, plasma, cerebrospinal fluid, whole blood, urine, oral fluid and food diagnostics for veterinary drug residues
- Allows the user to easily extend testing as new tests can be added without additional equipment

SUPERIOR REPORTING



Retrospective Reporting

- Retrieve previously unreported results without additional testing, saving time and the need to collect more sample

ADAPTABLE, EFFICIENT & COMPREHENSIVE

The Evidence Investigator is a compact, semi-automated benchtop analyser that offers efficient and comprehensive testing across a range of applications including clinical diagnostics, molecular, research, toxicology and food diagnostics.

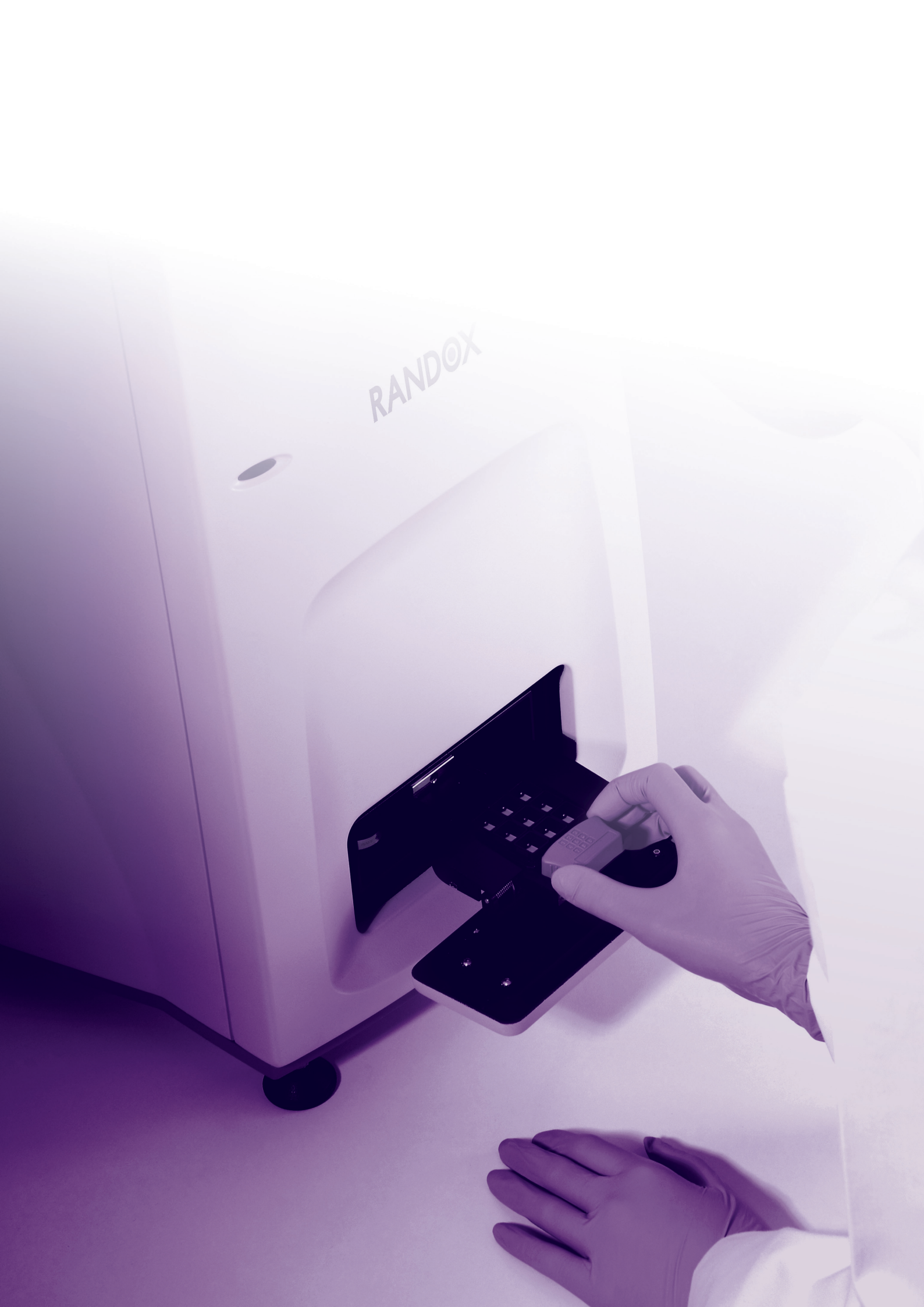
Renowned for its versatility, robustness and effective reporting methods, the Evidence Investigator has been used in a wide range of laboratory settings for over 15 years. This highly advanced yet simple to use analyser has only one moving part, giving the user peace of mind. The Evidence Investigator contains a host of innovative on-board data analysis features ensuring manual processes are kept to a minimum.

Offering efficiency without compromising on accuracy, the Evidence Investigator is the perfect fit for medium throughput laboratories seeking maximum use of benchspace.



Dimensions	75 (H) x 48 (D) x 42 (W) cm
Weight	24 kg, 52.9 lbs
Throughput	Up to 2376 tests per hour

RANDOX



KEY BENEFITS



ACCURATE AND ROBUST



Results are generated using a Charge Coupled Device (CCD) camera, which quantifies chemiluminescent light. This light measures the degree of binding between the sample and specific biochip bound ligands.

The Evidence Investigator is extremely well equipped to provide reliable results, while simultaneously robust enough to withstand frequent, heavy use.



UNIQUE CONSOLIDATION



The Evidence Investigator is the world's first platform allowing consolidation of immunoassay and molecular diagnostics. This is achieved through utilising protein and DNA based biochips. By giving the user the ability to consolidate tests, the Evidence Investigator improves laboratory efficiency and reduces costs.



ADVANCED ANALYSIS AND REPORTING METHODS



The Evidence Investigator image processing software translates light signal generated from chemiluminescent reactions into analyte concentration. This removes the need for any manual processing of data.

The Evidence Investigator also has the ability to retrieve previously unreported tests so they can be tested retrospectively. This saves time, labour costs and reduces any reagents wastage. All data is then analysed on-board, removing issues related to human error and result manipulation.



EVIDENCE INVESTIGATOR PACKAGE



The Evidence Investigator comes supplied as part of a package, with all essential components provided. These components are approved for use with the Evidence Investigator and make it easier for the user to conduct testing.



Biochip carrier handling tray



Thermoshaker



PCR (Molecular Only)

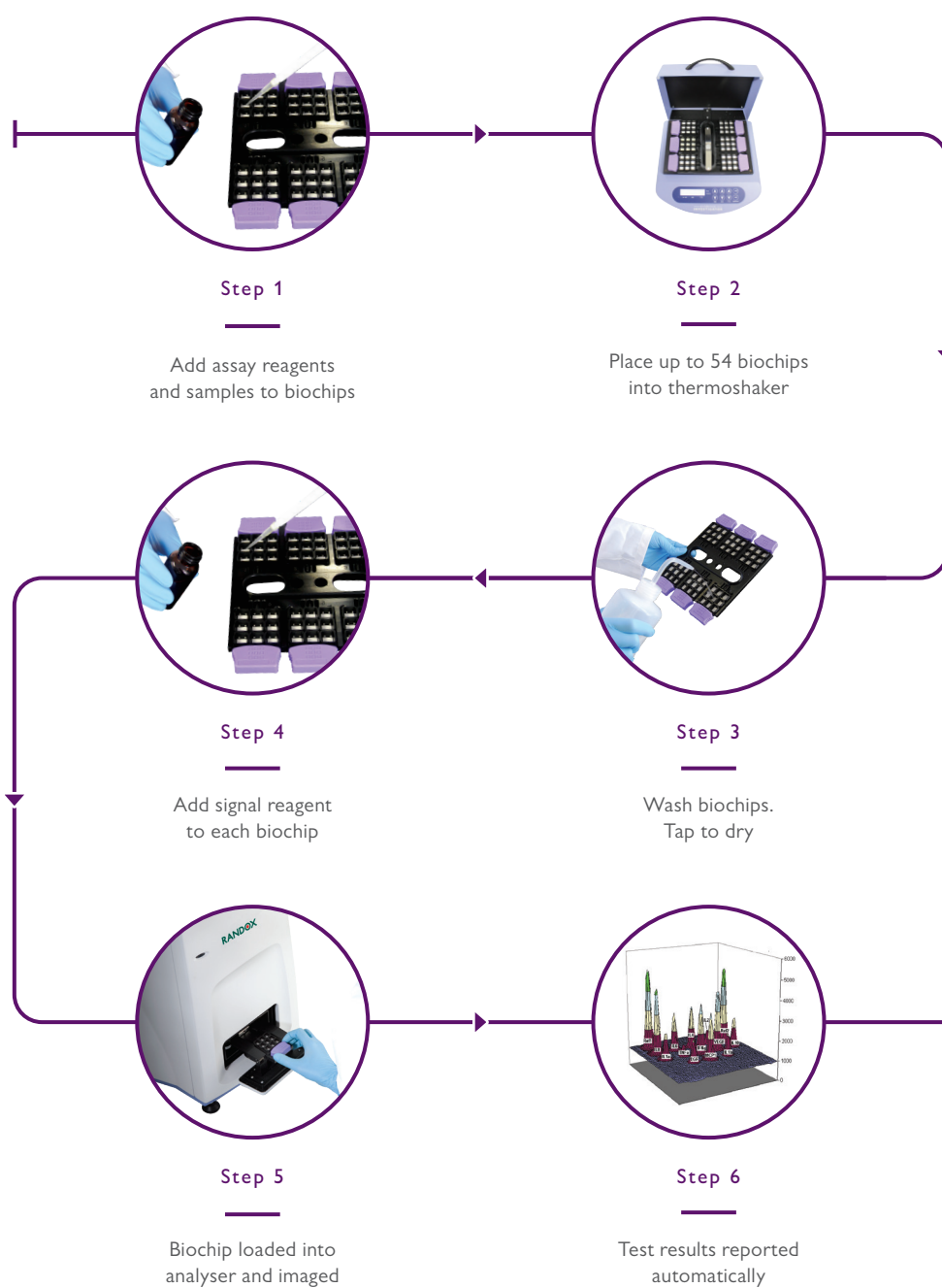


PC & imaging software



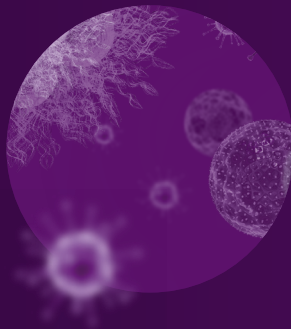
Barcode scanner

IMMUNOASSAY TESTING PROCESS



MOLECULAR TESTING

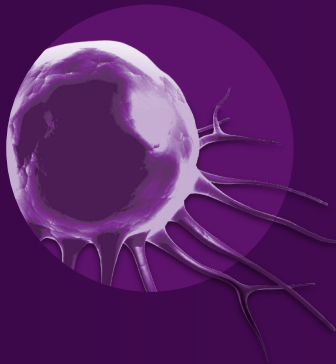
Our molecular product range offers diagnostic, prognostic and predictive solutions across a variety of disease areas including sexually transmitted infection (STI), respiratory tract infection, colorectal cancer, familial hypercholesterolemia (FH) and cardiovascular disease (CVD). Additionally, we can provide a wide range of assay formats including single nucleotide polymorphisms (SNP) genotyping, pathogen detection and mutation detection.



Pathogen Detection

STI and Respiratory Multiplex Arrays

Both arrays detect the most common and frequently requested infections in sexual and respiratory health. These comprehensive, highly sensitive and specific tests enable identification of co-infections simultaneously, often in asymptomatic patients and enable antibiotic stewardship.



Mutation Detection

KRAS, BRAF, PIK3CA Array and Familial Hypercholesterolemia Arrays I & II

These unique biochip assays permit high discrimination between multiple targets in a number of genes with a rapid turnaround time (3 hours). The arrays enable detection of the most frequently occurring mutations known to cause disease (FH) and adversely affect patient treatment (KRAS, BRAF, PIK3CA). A unique primer set is designed for each target which will hybridise to a complementary oligo-nucleotide probe spotted on a biochip discrete test region (DTR).

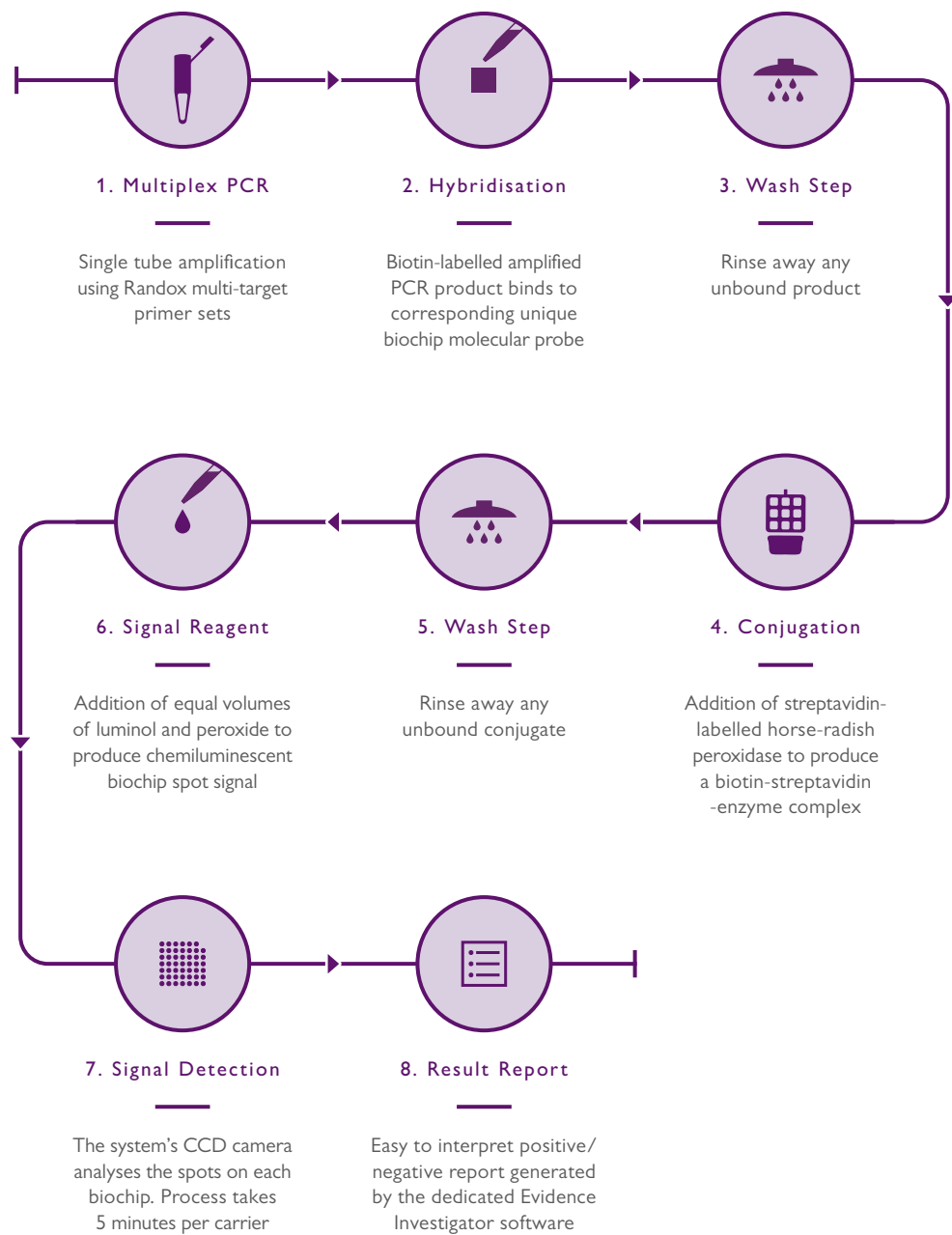


SNP Genotyping

Cardiovascular Risk Prediction Array

This array identifies individuals with a genetic predisposition to coronary heart disease (CHD). The innovative multiplex primers are designed to discriminate DNA sequences which differ only at one base.

MOLECULAR TESTING PROCESS



IMMUNOASSAY TEST MENU

ACUTE KIDNEY INJURY

Clusterin
Cystatin C
Kidney Injury Molecule-I
Lipocalin

ADHESION MOLECULES

E-Selectin
Intercellular Adhesion Molecule-I
L-Selectin
P-Selectin
Vascular Cell Adhesion Molecule-I

ANAEMIA

Ferritin
Folate
Vitamin B12

ALZHEIMERS RISK

ApoE4
Pan ApoE

CARDIAC

Creatine-Kinase Muscle Brain
Heart-Type Acid Binding Protein
Myoglobin
Troponin I

CEREBRAL

C-Reactive Protein
D-Dimer
Neuron Specific Enolase
Neutrophil Gelatinase-Associated Lipocalin
Soluble Tumour Necrosis Factor Receptor I

CHRONIC KIDNEY DISEASE

C3a Des Arg
C-Reactive Protein
Cystatin C
D-Dimer
Epidermal Growth Factor
Fatty Acid-Binding Protein I
Interlukin - 8
Macrophage Inflammatory Protein-1 α
Neutrophil Gelatinase-Associated Lipocalin
Soluble Tumour Necrosis Factor Receptor I
Soluble Tumour Necrosis Factor Receptor II

COVID-19

SARS-CoV-2 Antigen
Receptor Binding Domain
Nucleocapsid

CYTOKINES

Granulocyte-Macrophage Colony Stimulating Factor
Interleukin-1
Interlukin -1 β
Interlukin - 2
Interlukin - 3
Interlukin - 4
Interlukin - 5
Interlukin - 6
Interlukin - 7
Interlukin - 8
Interlukin - 10
Interlukin - 12p70
Interlukin - 13
Interlukin - 15
Interlukin - 23
Interferon Gamma
Human EGF
Monocyte Chemoattractant Protein
Macrophage Inflammatory Protein-1 α
Matrix Metalloproteinase-9
Soluble IL-2 Receptor α
Soluble IL-2 Receptor
Soluble Tumour Necrosis Factor Receptor I
Soluble Tumour Necrosis Factor Receptor II
Tumour Necrosis Factor Alpha
Vascular Endothelial Growth Factor

ENDOCRINE

17 α Hydroxyprogesterone
Cortisol
Dehydroepiandrosterone-Sulphate
Leptin

FEMALE BLADDER CANCER

Interleukin-12 p70
Interleukin-13
Midkine
Clusterin

FERTILITY

Estradiol
Follicle Stimulating Hormone
Luteinising Hormone
Progesterone
Prolactin Hormone

GASTROINTESTINAL

Gastrin 17
Helicobacter Pylori
Pepsinogen I
Pepsinogen II

IMMUNODEFICIENCY

Interleukin-17A
Interleukin 17F
Interleukin-22
Interleukin-17

METABOLIC

Ferritin
Interleukin-6
Insulin
Adiponectin
C-Reactive Protein
Cystatin C
Leptin
Parathyroid Hormone
Plasminogen Activator Inhibitor-I
PTH
Resistin
Tumour Necrosis Factor α

PANCREATIC CANCER

Cancer Antigen 19-9 – CA19-9
Carcinoembryonic Antigen
Alpha-1-Acid Glycoprotein

SHGB

Sex Hormone-Binding Globulin

STROKE

Brain-Derived Neurotrophic Factor – BDNF
D-Dimer
Glial Fibrillary Acidic Protein – GFAP
Glutathione S – Transferase Pi – GSTPi
Heart-Type Fatty Acid-Binding Protein – FABP3
Interleukin-6 – IL-6
Nucleoside Diphosphate Kinase – NDKA
Neuron Specific Enolase – NSE
Parkinson Protein 7 – PARK-7
Soluble Tumour Necrosis Factor Receptor 1 – sTNFR1

TESTOSTERONE

Testosterone

THYROID

Anti-Thyroglobulin
Anti-Thyroid Peroxidase Antibody
Free Thyroxine
Free Tri-iodothyronine
Thyroid Stimulating Hormone
Thyroid Stimulating Hormone
Thyroxine Binding Globulin
Total Thyroxine
Total Tri-iodothyronine

THYROID

Anti-Thyroglobulin
Anti-Thyroid Peroxidase Antibody
Free Thyroxine
Free Tri-iodothyronine
Thyroid Stimulating Hormone
Thyroid Stimulating Hormone
Thyroxine Binding Globulin
Total Thyroxine
Total Tri-iodothyronine

TISSUE DAMAGE

Adipose Fatty Acid Binding Protein - FABP4
Brain Fatty Acid Binding Protein - FABP7
Epidermal Fatty Acid Binding Protein - FABP5
Heart-Type Fatty Acid-Binding Protein - FABP3
Ileal Fatty Acid Binding Protein - FABP6
Liver Fatty Acid Binding Protein-1 - FABP1
Testis Fatty Acid Binding Protein - FABP9

TUMOR

Carcinoembryonic Antigen
Free Prostate Specific Antigen
Total Prostate Specific Antigen

VITAMIN

Vitamin D

TOXICOLOGY TEST MENU

DoA I+

Amphetamine
Barbiturates
Benzodiazepines I (Oxazepam)
Benzodiazepines II (Lorazepam)
Buprenorphine
Benzoyllecgonine (Cocaine Metabolite)
Cannabinoids (THC)
Creatinine (Urine only)
Methadone
Methamphetamine
MDMA
Opiate
Phencyclidine (PCP)
Tricyclic Antidepressants (TCA)
Amphetamine
Barbiturates
Benzodiazepines I (Oxazepam)
Benzodiazepines II (Lorazepam)
Benzodiazepines III (Clonazepam)
Benzoyllecgonine (Cocaine Metabolite)
Buprenorphine
Cannabinoids (THC)
Dextromethorphan
Fentanyl
Generic Opioids
Meprobamate
Methadone
Methamphetamine
Opiates
Oxycodone I
Oxycodone II
Phencyclidine (PCP)
Tramadol
Tricyclic Antidepressants (TCA)
Zolpidem

DoA ULTRA

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

DoA Hair

Amphetamine
Benzodiazepine
Cannabinoids (THC)
Benzoyllecgonine (Cocaine Metabolite)
Hydrocodone
Ketamine
Methamphetamine
Opiate
Oxymorphone
Phencyclidine (PCP)

DoA Hair

Amphetamine
Benzodiazepine
Cannabinoids (THC)
Benzoylecgonine (Cocaine Metabolite)
Hydrocodone
Ketamine
Methamphetamine
Opiate
Oxymorphone
Phencyclidine (PCP)

NPS I

AB-CHMINACA (Synthetic Cannabinoids)
AB-PINACA (Synthetic Cannabinoids)
Bath Salts 1 (Mephedrone / Methcathinone)
Bath Salts II (α -PVP / MDPV)
Benzylpiperazines
JWH-018 (Synthetic Cannabinoids)
Mescaline
Phenylpiperazines 1
Phenylpiperazines II
Salvinorin
UR-144/XLR-11 (Synthetic Cannabinoids)

NPS II

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

MOLECULAR TEST MENU

RESPIRATORY

COVID-19

SARS-CoV-2

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

EXTENDED CORONAVIRUS PANEL

Adenovirus A/B/C/D/E

Coronavirus 229e/Nl63

Coronavirus Oc43/HKUI

Enterovirus A/B/C

Influenza A

Influenza B

Middle East Respiratory Syndrome Coronavirus

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

SARS-CoV-2

Rhinovirus A/B/C

RESPIRATORY TRACT PANEL

Viral

Adenovirus A/B/C/D/E

Bocavirus 1/2/3

Coronavirus 229e/Nl63

Coronavirus Oc43/HKUI

Enterovirus A/B/C

Influenza A

Influenza B

Metapneumovirus

Parainfluenza Virus 1

Parainfluenza Virus 2

Parainfluenza Virus 3

Parainfluenza Virus 4

Respiratory Syncytial Virus A/B

Rhinovirus A/B/C

Bacterial

Bordetella parapertussis

Bordetella pertussis

Chlamydomphila pneumoniae

Haemophilus influenzae

Legionella pneumophila

Moraxella catarrhalis

Mycoplasma pneumoniae

Streptococcus pneumoniae

CHRONIC LUNG PANEL

Viral

Adenovirus A/B/C/D/E
Bocavirus 1/2/3
Coronavirus 229e/NL63
Coronavirus OC43/HKUI
Enterovirus A/B/C
Influenza A
Influenza B
Metapneumovirus
Parainfluenza Virus 1
Parainfluenza Virus 2
Parainfluenza Virus 3
Parainfluenza Virus 4
Respiratory Syncytial Virus A/B
Rhinovirus A/B/C

Bacterial

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

Fungal

Aspergillus fumigatus
Candida albicans
Exophiala dermatitidis
Scedosporium species (7 Spp)

GENITOURINARY

SEXUALLY TRANSMITTED INFECTIONS PANEL

Chlamydia trachomatis – (CT)
Haemophilus ducreyi – (HD)
Mycoplasma genitalium – (MG)
Mycoplasma hominis – (MH)
Neisseria gonorrhoea – (NG)
Treponema pallidum – (TP)
Trichomonas vaginalis – (TV)
Ureaplasma urealyticum – (UU)
Herpes simplex Virus 1 – (HSV-1)
Herpes simplex Virus 2 – (HSV-2)

URINARY TRACT INFECTIONS PANEL

Bacterial

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

Fungal

Candida Albicans

Antibiotic Resistance

mecA (Incl MRSA)
S Meca (Incl MRSA)
Trimethoprim Resistance 1
Trimethoprim Resistance 2
Trimethoprim Resistance 3
Trimethoprim Resistance 4
Trimethoprim Resistance 5
Van A
Van B

GENETIC

KRAS, BRAF, PIK3CA

KRAS – 16 Mutations
BRAF – 1 Mutation
PIK3CA – 3 Mutations

FAMILIAL HYPERCHOLESTEROLEMIA

LDLR – 38 Mutations
APOB – 1 Mutation
PCSK9 – 1 Mutation

CARDIAC RISK PREDICTION

20 SNPs with Risk Algorithm

FOOD DIAGNOSTICS TEST MENU

Antimicrobial Array I Ultra

Sulphadimethoxine
Sulphadiazine
Sulphadoxine
Sulphachlorpyridazine
Sulphamethoxyipyridazine
Sulphamerazine
Sulphisoxazole
Sulphathiazole
Sulphamethazine
Sulphaquinoxaline
Sulphapyridine
Sulphamethoxazole
Sulphamonomethoxine
Trimethoprim
Dapsone

Antimicrobial Array II Plus

Quinolones
Ceftiofur
Thiamphenicol
Streptomycin
Tylosin
Tetracyclines

Antimicrobial Array III

AOZ
AMOX
AHD
SEM

Antimicrobial Array III (CAP Only)

Chloramphenicol

Antimicrobial Array IV

Spiramycin/Josamycin
Apramycin
Bacitracin
Neomycin/Paramomycin
Tobramycin
Tylosin B/Tilmicosin
Spectinomycin
Amikacin/Kanamycin
Lincosamides
Erythromycin
Streptomycin/Dihydrostreptomycin
Virginiamycin

Antimicrobial Array V

Nitroimidazoles
Chloramphenicol

Anthelmintics Array

Benzimidazoles
Amino Benzimidazoles
Thiabendazole
Triclabendazole
Levamisole
Moxidectin
Avermectins

Beta Lactams Array Plus

Beta Lactam
Cephalexin
Cefuroxime

Coccidiostats Array

Clopidol
Decoquinate
Diclazuril
Halofuginone
Imidocarb
Lasalocid
Maduramicin

Coccidiostats Array (Continued)

Clopidol
Decoquate
Diclazuril
Halofuginone
Imidocarb
Lasalocid
Maduramicin
Monensin
Nicarbazin
Robenidine
Salinomycin
Toltrazuril

Growth Promoter

Beta-Agonists
Boldenone
Corticosteroids
Nandrolone
Stanozolol
Stilbenes
Trenbolone
Zeranol

InfiniPlex for Milk

Quinolones
Beta-Lactams
Cefalexin
Erythromycin
Spiramycin
Tylosin
Lincomycin
Pirlimycin
Neomycin
Streptomycin
Gentamicin

InfiniPlex for Milk (Continued)

Kanamycin
Spectinomycin
Amphenicols
Trimethoprim
Baquiloprim
Rifaximin
Apramycin
Virginiamycin
Tobramycin
Tetracyclines
Polymixins
Bacitracin
Cefuroxime
5-hydroxy Flunixin
Meloxicam
Metamizole
Tolfenamic Acid
Phenylbutazone
Chlormadinone
Methylprednisolone
Sulphapyridine
Dapsone
Melamine
Nitroxynil
Aflatoxin M1
Sulphonamides
Novobiocin
Ractopamine
Dexamethasone
Hygromycin B
Sulfaguanidine
Sulphamethazine

Bovine Pathogen Array

Bovine Viral Diarrhoea
Infectious Bovine Rhinotracheitis
Paratuberculosis
Leptospirosis
Neosporosis
Fascioliasis

Growth Promoter (Ractopamine Only)

Ractopamine

Pesticides Array

Acetamiprid (AAP)
Amitraz (AMI)
Azoxystrobin (AZX)
Bromopropylate (BRM)
Carbofuran (CBF)
Carbaryl (CBY)
Carbendazim (CBZ)
Chlorpyrifos (CPY)
Clothianidin (CLO)
Coumaphos (COU)
Imidacloprid (IMI)
Thiamethoxam (THM)
Fenpyroximate (FNP)
Imazalil (IMZ)

InfiniPlex II

Benzimidazoles (BNZ)
2-Amino Benzimidazole (AMINO)
Thiabendazole/Niclosamide (THIA)
Triclabendazole (TRI)
Levamisole (LEVA)
Avermectins (AVER)
Moxidectin (MOXI)
Nitroxylnil (NTX)
Closantel (CLOS)
Oxyclozanide (OXY)
Clorsulon (CLOR)
Morantel (MRT)
Derquantel (DRQ)
Monepantel (MON)
Halofuginone (HALO)
Imidocarb (IMIDO)
Toltrazuril (TOLT)
Monensin (MOE)
Lasalocid (LAS)

Myco 9 Array


Aflatoxin B1
Aflatoxin G1
Deoxynivalenol
Diacetoxyscirpenol
Fumonisin
Ochratoxin A
Paxilline
T2 Toxin
Zearalenone

SOFTWARE

Current User: gillian Time: 12:05:45 PM

Sample Entry Result History Calibration QC Archiving Error Log Data Work Retire Work LIMS

Evidence Investigator



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 www.randox.com
 Software Version: 2.0.0

Worklist Array

Awaiting Loading

1	2	3
4	5	6

Worklist Summary
Carrier Array No. Samples

Camera Status
Cooling 0
Temperature outside tolerance for imaging.

Investigate Cycle Status
Awaiting Work

Accept Samples Open Work

Current User: gillian Time: 12:10:20 PM

Sample Entry Result History Calibration QC Archiving Error Log Data Work Retire Work LIMS

Calibration History

Array Calibration Details
 Array: Drugs of Abuse Calibration Date: 07/16/2014 Calibration Time: 04:49 PM
 Calibration ID: 237 Calibration Batch: 0054 Calibrator Entry: 12/01/2015
 Calibration Status: Pass
 Analyte Calibration Details
 Analyte: METHAMPHETAMINE Target Curve Fit (R): 0.95 Curve Fit (R): 1.00

Worklist Array

Awaiting Loading

1	2	3
4	5	6

Worklist Summary
Carrier Array No. Samples

Camera Status
No Work (Waiting)

Investigate Cycle Status
Awaiting Work

Accept Samples Open Work

Calibration Curve

Current User: gillian Time: 11:52:16 AM

Sample Entry Result History Calibration QC Archiving Error Log Data Work Retire Work LIMS

Sample Entry

Array Selection

- Adhesion Molecules Array
- Anti-Microbial Array
- Anti-Microbial Array II
- Cardiac
- Cerebral Array I
- Cerebral Array II
- Cytokine Array
- Cytokine Array IV
- Cytokine Array V
- Cytokine High Sensitivity Array
- Drugs Of Abuse
- Drugs Of Abuse I (Dial Fluid)
- Drugs Of Abuse I (Urea) SD
- Drugs Of Abuse I (HB) SD

Worklist Array

Loaded 6 of 6

1	2	3
4	5	6

Worklist Summary
Carrier Array No. Samples

Camera Status
No Work (Waiting)

Investigate Cycle Status
Awaiting new work

Accept Samples Open Work

Sample Carrier Data Entry

Carrier Details

Batch Details

Carrier: Array No. Samples

Well 1: Drugs Of Abuse 1
 Well 2: Drugs Of Abuse 2
 Well 3: Drugs Of Abuse 3
 Well 4: Drugs Of Abuse 4
 Well 5: Drugs Of Abuse 5
 Well 6: Drugs Of Abuse 6
 Well 7: Drugs Of Abuse 7
 Well 8: Drugs Of Abuse 8
 Well 9: Drugs Of Abuse 9

Worklist: 'SW Test 01'

Carrier	Array	Well	Sample Code	Type	Offset
1	Drugs Of Abuse	1	ABA4023491912	Calibrator	1
1	Drugs Of Abuse	2	ABA4023491912	Calibrator	1
1	Drugs Of Abuse	3	ABA4023491912	Calibrator	1
1	Drugs Of Abuse	4	ABA4023491912	Calibrator	1
1	Drugs Of Abuse	5	ABA4023491912	Calibrator	1
1	Drugs Of Abuse	6	ABA4023491912	Calibrator	1
1	Drugs Of Abuse	7	ABA4023491912	Calibrator	1
1	Drugs Of Abuse	8	ABA4023491912	Calibrator	1
1	Drugs Of Abuse	9	ABA4023491912	Calibrator	1
2	Drugs Of Abuse	1	Sample 1	Sample	1
2	Drugs Of Abuse	2	Sample 1	Sample	1
2	Drugs Of Abuse	3	Sample 1	Sample	1
2	Drugs Of Abuse	4	Sample 1	Sample	1
2	Drugs Of Abuse	5	Sample 1	Sample	1
2	Drugs Of Abuse	6	Sample 1	Sample	1
2	Drugs Of Abuse	7	Sample 1	Sample	1
2	Drugs Of Abuse	8	Sample 1	Sample	1
2	Drugs Of Abuse	9	Sample 1	Sample	1

Current User: gillian Time: 12:22:27 PM

Sample Entry Result History Calibration QC Archiving Error Log Data Work Retire Work LIMS

Result History

General search by Array, Date, Operator and Batch
 Array: Drugs of Abuse Date: 07/17/2014 Operator: gillian Batch: J0054

Worklist Array

Awaiting Loading

1	2	3
4	5	6

Worklist Summary
Carrier Array No. Samples

Camera Status
No Work (Waiting)

Investigate Cycle Status
Awaiting Work

Accept Samples Open Work

Selected Samples Results View

Sample	Time	Carrier	LIMS	Analyte	Units	Result	Error	Offset
1	13:49:29	237	01	METHAMPHETAMINE	ng/ml	Negative	0	1
2	13:49:29	237	02	BAMBIROLATE	ng/ml	Negative	0	1
3	13:49:29	237	03	BENZODIAZEPINES	ng/ml	Negative	0	1
4	13:49:29	237	04	BENZODIAZEPINES	ng/ml	Negative	0	1
5	13:49:29	237	05	OPICATE	ng/ml	Negative	0	1
6	13:49:29	237	06	OPICATE	ng/ml	Negative	0	1
7	13:49:29	237	07	BZC	ng/ml	Negative	0	1
8	13:49:29	237	08	COCAINE	ng/ml	Negative	0	1
9	13:49:29	237	09	THC	ng/ml	Negative	0	1
10	13:49:29	237	10	METHAMPHETAMINE	ng/ml	Negative	0	1
11	13:49:29	237	11	METHAMPHETAMINE	ng/ml	Negative	0	1
12	13:49:29	237	12	METHAMPHETAMINE	ng/ml	Negative	0	1
13	13:49:29	237	13	METHAMPHETAMINE	ng/ml	Negative	0	1
14	13:49:29	237	14	METHAMPHETAMINE	ng/ml	Negative	0	1
15	13:49:29	237	15	METHAMPHETAMINE	ng/ml	Negative	0	1
16	13:49:29	237	16	METHAMPHETAMINE	ng/ml	Negative	0	1
17	13:49:29	237	17	METHAMPHETAMINE	ng/ml	Negative	0	1
18	13:49:29	237	18	METHAMPHETAMINE	ng/ml	Negative	0	1
19	13:49:29	237	19	METHAMPHETAMINE	ng/ml	Negative	0	1
20	13:49:29	237	20	METHAMPHETAMINE	ng/ml	Negative	0	1

On-board data analysis

- No manipulation of results required
- Reduces the risk of operator error
- Rapid results improves workflow

Simplicity

- Minimal training required
- Highly intuitive operating system
- Colour-coded sample addition

Flexibility

- Multi-format option for results review
e.g. by array, by users, by date or sample code
- Fully printable reports

Retrospective testing

- Retrieve previously unreported tests
- Reduces reagent wastage
- Saves time and labour costs

Storage facilities

- Store up to 20,000 sample results
- Store up to 500,000 sample test results

Highly secure

- Password protected for various user levels
- Full traceability of data

Extensive QC capabilities

- Internal QC software included with Levey-Jennings charts multi-point QC rules and auto flagging of outliers

Connectivity

- LIMS integrated for convenient reporting

Service

- Easy troubleshooting process
- Regular system checks to continually assure the operator of optimum system performance

SPECIFICATIONS

Accreditation	Internally accredited to full CE and UL certification
Analyser description	Semi-automated Biochip Array Analyser
Biochip capacity	9 biochips on Evidence Investigator, 54 biochips on Thermoshaker
Calibration method	9 point calibration
Connectivity	LIMS integration
Data back-up methods	Via writable DVD, CD, USB Mass-storage or Network folder
Environment	Operating temperature 16 to 25°C Relative Humidity < 80% Altitude < 2000m Pollution degree 2 (IEC 664)
Fuses	Mains Inlet Fuse (F1) T 2 A H 250V (20mm x 5mm) Motor Control Board (F1) T I A L 250V (20mm x 5mm)
Incubation time	Array-specific, 30–90 minutes
Installation requirements	Evidence Investigator must be connected to a single-phase power supply
Measurement principal	Chemiluminescent
Network services	Highly Secure Remote Diagnostics, automated software and array updates
Peripherals	Printer, barcode scanner, carrier handling tray, thermoshaker and thermocycler (molecular only)
Quality control	Levey-Jennings, user definable multipoint rules
Reagent volume	Array specific, details supplied in kits

“ EQUIPPED TO PROVIDE RELIABLE RESULTS AND ROBUST ENOUGH TO WITHSTAND FREQUENT, HEAVY USE ”

Sample loading	Single carrier loading bay
Sample throughput	Array specific
Sample type	Array specific including serum, plasma, whole blood, urine, tissue, feed, honey, milk, egg, cell culture supernatant, cerebrospinal fluid, oral fluid, bronchoalveolar lavage fluid, forensic matrices
Sample volume	Array specific; 25–150µl
Start up / shut down time	On command
Time to first result	Array specific
Input voltage	Supply Voltage 100–120Vac, 60Hz, 22VA 200–240Vac, 50Hz, 30VA Installation category II Camera Power Supply 100–240Vac, 47–63Hz, 1.35A
UPS	Recommended
Water quality	CLSI Type II or better

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Randox Laboratories provide customers with an unrivalled support service. Our international team of fully qualified engineering and technical support specialists deliver on-site Evidence Series immunoanalyser installation, training and validation. We also offer a range of bespoke service and extended warranty packages that can be tailored to your budget.

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distributed across the globe

At Randox we are always ready to provide the support needed to ensure you fully enjoy all the advantages of our unique Biochip Array Technology. We understand the importance of efficient analyser operation time and how that affects outcomes for the laboratory.

Working alongside you, we can ensure your laboratory is working to an optimal level - helping achieve our mission of improving health worldwide.



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Multiplex testing allows multiple tests to be carried out from a single undivided sample



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Suitable for clinical, molecular, food and toxicology testing



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Faster sample processing time than leading competitors



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Radox Investigator

