



Evidence

Multiplexing...Proven, Perfected, Evolved The World's First Protein Biochip Array Technology System



Evidence

Unrivalled benefits for batch analysis in the larger laboratory

The Evidence analyser is the world's first protein Biochip Array Technology system and has truly revolutionised laboratory diagnostics worldwide. As the first of its kind, the Evidence brings higher standards of quality, efficiency and reliability.

Utilising Biochip Array Technology, the Evidence allows simultaneous detection of multiple analytes from a single sample for efficient and cost effective testing. Suited to the larger laboratory with a throughput of > 1500 tests per hour, the Evidence provides laboratories with innovative, intuitive technology.

Evidence system overview





Why Evidence?

High quality multiplexing for reliable results

Save time - save costs

 Multiplex testing allows multiple tests to be carried out from a single patient sample reducing the amount of time and labour spent on individual tests

Optimum laboratory efficiency

- Multi-analyte barcoded controls and calibrators available for accurate and reliable laboratory testing
- Fully automated system, maximising walkaway time allowing staff to dedicate more time to other important duties
- Refrigerated reagent storage unit

Complete patient profiling

- Multiplex testing with Biochip Array Technology allows clinicians to consider the complete picture
- Facilitating well informed decisions and accurate diagnosis



High throughput

• The Evidence analyser has the ability to process > 1500 tests per hour

Quality results

- Extensive QC capabilities with multi-analyte controls and calibrators available
- QC software with multi-rule capability
- Complete IQC and EQA packages available



Reduced sample volume

- Analyse a complete profile of biomarkers from as little as $7\mu I$ of sample
- Saves time and patient distress

Applicable to multiple matrices

 The system is applicable to the analysis of multiple matrices, increasing the flexibility and utility of the Evidence. Matrices include serum, plasma, whole blood, oral fluid, urine and forensic matrices. New tests and matrices are constantly in development

World's most diverse test menu

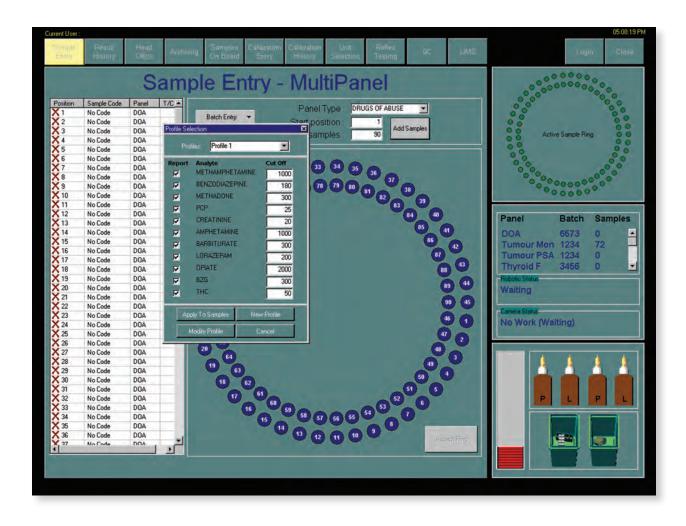
- More tests available than any other sole supplier
- Routine and novel markers available

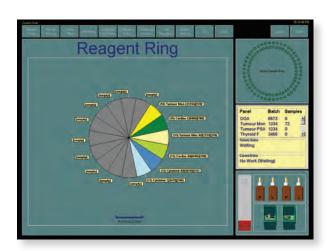
Result traceability

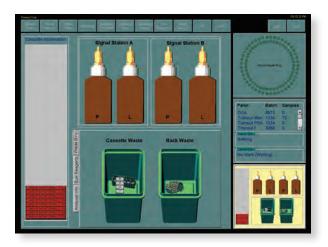
- Chain of custody features
- Barcoded reagents and calibrators

Software

Reliable and user friendly operations







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
- Two disc drives; hard drive and DVD-RW drive
- USB connection

Retrospective reporting

- Allows the user to retrieve previously unreported tests
- Reduces reagent wastage
- Saves time and labour costs

Simplicity

- Minimal training required
- Highly intuitive graphical user interface
- Colour-coded on screen inventory units to show component status
- Automatic system initialisation procedure
- Audible alarms to alert user
- Calibrator information supplied on disc for easy upload

Flexibility

- User defined cut-off values for all toxicology assays
- Multi-format option for results review e.g.: by patient, by array, by date etc
- Fully printable reports

Security

- Full traceability of data
- Password protection for different levels of access

Storage facilities

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

Biochip test menu

The world's largest and most diverse test menu

Clinical Arrays

Cardiac Array

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

Thyroid Total Array

Thyroid Stimulating Hormone (TSH) Total Thyroxine (TT4) Total Tri-iodothyronine (TT3)

Estradiol (EST)

Follicle Stimulating Hormone (FSH) Luteinising Hormone (LH) Progesterone (PROG) Prolactin (PRL) Testosterone (TEST)

Free Thyroxine (FT4) Free Tri-iodothyronine (FT3) Thyroid Stimulating Hormone (TSH)

Tumour PSA Array

Carcinoembryonic Antigen (CEA) Free Prostate Specific Antigen (fPSA) Total Prostate Specific Antigen (tPSA)

Thyroid Free Array

Applications available for serum and/or plasma

Fertility Hormone Array Additional Tests

Anti-Tg Anti-TPO Beta Crosslaps B-HCG CA 125 CA 15-3 CA 19-9 Carbamazepine Digitoxin Digoxin

Folate Gentamicin Growth hormone Intact PTH Methotrexate Osteocalcin Phenobarbital Phenytoin

Sex Hormone-Binding Globulin (SHBG) Thyroglobulin (Tg)

Theophylline Tobramycin Valproic Acid Vancomycin Vitamin B12 Vitamin D CAIII GPBB

Research Arrays

Adhesion Molecules Array

F-Selectin L-Selectin

Intercellular Adhesion Molecule-I (ICAM-I) Vascular Cell Adhesion Molecule-I (VCAM-I)

Cerebral Array I

Brain-Derived Neurotrophic Factor (BDNF) Glial Fibrillary Acidic Protein (GFAP) Heart Type Fatty Acid Binding Protein (H-FABP) Interleukin-6 (IL-6)

Cerebral Array II

C-Reactive Protein (CRP)

D-dimer

Neuron Specific Enolase (NSE)

Neutrophil Gelatinase-Associated Lipocalin (NGAL) Soluble Tumour Necrosis Factor Receptor I (sTNFRI)

Cytokine Array I

Epidermal Growth Factor (EGF)

Interferon-γ (IFN-γ) Interleukin-l α (IL-l α) Interleukin-Iβ (IL-Iβ)

Interleukin-2 (IL-2)

Interleukin-4 (IL-4)

Interleukin-6 (IL-6)

Interleukin-8 (IL-8)

Interleukin-10 (IL-10)

Monocyte Chemotactic Protein-I (MCP-I) Tumour Necrosis Factor- α (TNF- α)

Vascular Endothelial Growth Factor (VEGF)

(High sensitivity Array on Evidence Investigator only)

Cytokine Array II

Insulin like Growth Factor I, Free (IGF-I (free) Interleukin-I Receptor Antagonist (IL-IRa) Interleukin-12/23-p40 (IL-12/23-p40) Interferon-γ -Inducible Protein 10 (IP-10) Platelet Derived Growth Factor BB (PDGF-BB) Regulated on Activation, Normal T Expressed and Secreted (RANTES)

Cytokine Array III

Granulocyte Macrophage Colony Stimulating Factor (GM-

Interleukin-5 (IL-5) Interleukin-15 (IL-15)

Macrophage Inflammatory Protein - $I\alpha$ (MIP- $I\alpha$)

Cytokine Array IV

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

Cytokine Array V (On Evidence Investigator only)

Interleukin-3 (IL-3) Interleukin-7 (IL-7) Interleukin-13 (IL-13) Interleukin-12p70 (IL-12p70) Interleukin-23 (IL-23)

Endocrine Array

Cortisol

Dehydroepiandrosterone Sulphate (DHEAs) Leptin

 17α Hydroxyprogesterone

Metabolic Syndrome Array I

Ferritin

Interleukin-6 (IL-6) Leptin

Plasminogen Activator Inhibitor-I (PAI-I) Resistin Tumour Necrosis Factor- α (TNF α)

Metabolic Syndrome Array II

Adiponectin

C-Reactive Protein (CRP)

Cystatin C

Tumour Array 3 (Monitoring)

Alpha-Fetoprotein (AFP) Carcinoembryonic Antigen (CEA) Human Chorionic Gonadotropin (hCG)

Molecular Arrays available on Evidence Investigator only

Respiratory Pathogen Array

Influenza A

Influenza B

Human adenovirus B/C/E
Human bocavirus I/2/3
Human coronavirus 229E/NL63
Human coronavirus OC43/HKUI
Human enterovirus A/B/C
Human metapneumovirus
Human parainfluenza virus I

Human respiratory syncytial virus A Human respiratory syncytial virus B Human rhinovirus A/B Chlamydophila pneumoniae Haemophilus influenza

Legionella pneumophila Moraxella catarrhalis Mycoplasma pneumoniae Staphylococcus aureus Streptococcus pneumoniae STI Array

Chlamydia trachomatis Neisseria gonorrhoea Herpes simplex I Herpes simplex 2 Treponema pallidum Trichomonas vaginalis Mycoplasma hominis Mycoplasma genitalium Ureaplasma urealyticum Haemophilus ducreyi K-RAS/BRAF/PIK3CA* Array

K-RAS BRAF PIK3CA*

Cardiac Risk Prediction Array

Familial Hypercholesterolemia Array

Applications for a wide range of matrices *PIK3CA for research use only

Human parainfluenza virus 4 Toxicology Arrays

Human parainfluenza virus 2

Human parainfluenza virus 3

Drugs of Abuse Array I Plus

Amphetamine
Barbiturates
Benzodiazepine I
Benzodiazepine 2
Buprenorphine
Cannabinoids

Cocaine metabolite (Benzoylecgonine)

MDMA Methadone Methamphetamine Opiates Phencyclidine

Tricyclic Antidepressants (TCAs Generic)

Drugs of Abuse Array II

Buprenorphine Fentanyl Generic Opioids Ketamine LSD Methaqualone MDMA

Oxycodone I Oxycodone 2 Propoxyphene Drugs of Abuse Array III

Chloral Hydrate Metabolite

Ethyl Glucuronide Fentanyl Ketamine Metabolite Meperidine Meprobamate Zaleplon

Zolpidem Zopiclone Flunitrazepam

Drugs of Abuse Array IV

Acetaminophen
Dextromethorphan
Escitalopram
Ethyl Glucuronide
Fluoxetine
Haloperidol
Ibuprofen
Methylphenidate
Salicylate
Sertraline
Tramadol

Trazodone

Tricyclic Antidepressants (TCAs Generic)

Drugs of Abuse Array V

Bath Salts I (Methcathinone + Mephedrone)

Bath Salts II (MDPV) Benzylpiperazines Mescaline Phenylpiperazines I Phenylpiperazines II Salvinorin

Synthetic Cannabinoids I Synthetic Cannabinoids II Synthetic Cannabinoids III Synthetic Cannabinoids IV

Applications available for urine, whole blood, oral fluid and a wide range of forensic matrices. (For urine applications creatinine is included as a dilution marker)

Food Diagnostics Arrays on Evidence Investigator only

Anthelmintics Array

Amino-benzimidazoles Avermectins Benzimidazoles Levamisole Moxidectin Thiabendazole Triclabendazole

Anti-Microbial Array I Plus

Sulphachlorpyridazine
Sulphadiazine
Sulphadimethoxine
Sulphadoxine
Sulphamerazine
Sulphamethazine
Sulphamethizole
Sulphamethoxazole
Sulphamethoxazole
Sulphamethoxypyridazine
Sulphamonomethoxine
Sulphapyridine
Sulphaquinoxaline
Sulphathiazole
Sulphisoxazole
Trimethoprim

Anti-Microbial Array II

Tylosin/Tilmicosin

Ceftiofur Quinolones (generic) Florfenicol/Thiamphenicol Streptomycin/Dihydrostreptomycin Tetracyclines (generic) Anti-Microbial Array III

AMOZ AOZ

Chloramphenicol

SFM

Anti-Microbial Array III (Chloramphenicol only) Chloramphenicol

Chloramphenicol Glucuronide

Anti-Microbial Array IV

Amikacin Apramycin Bacitracin Clindamycin Desmycosin Erythromycin Gentamicin Hygromycin losamycin Kanamycin Lincomycin Neomycin Paromomycin Pirlimycin Spectinomycin Spiramycin Streptomycin

Tobramycin

Virginiamycin

Tylosin

Coccidostats Array

Amprolium
Clopidol
Decoquinate
Diclazuril
Halofuginone
Imidocarb
Lasalocid
Maduramicin
Monensin
Nicarbazin
Nifursol
Robenidine
Salinomycin/Narasin
Semduramicin
Toltrazuril

Growth Promoter Multiple Matrix Screen Array

Matrix Screen Array
β-agonists
Boldenone
Corticosteroids
Nandrolone
Ractopamine
Stanozolol
Stilbenes
Trenbolone
Zeranol

Growth Promoter Rapid Urine

Screen Array β-agonists Boldenone Corticosteroids Ractopamine Stanozolol Trenbolone Zeranol

Synthetic Steroids Array

Ethinylestradiol Gestagens Methlytestosterone 17β - Clostebol

Beta Lactam Antibiotics Array

For the quantitative detection of Ampicillin, Amoxicillin, Cloxacillin, Dicloxacillin, Nafcillin, Oxacillin, Penicillin G, Penicillin V, Cefacetril, Cefazolin, Cefoperazone, Cefquinome, Ceftiofur, Cephalexin, Cephalonium, Cephapirin.

Applications available for feed, honey, milk, urine, tissue, egg, seafood

Unrivalled customer service

Our global network, ensuring local support

Local Support

At Randox, we realise the importance of local support. Our global team of expert technical and applications staff ensure unbeatable customer service wherever you are in the world.

Time is critical in any laboratory, therefore you are our top priority. Dedicated specialists answer all your queries in a quick and thorough manner. With our field engineers on hand at any time, you can be sure of a fast response anywhere in the world.

Remote Access Diagnostics

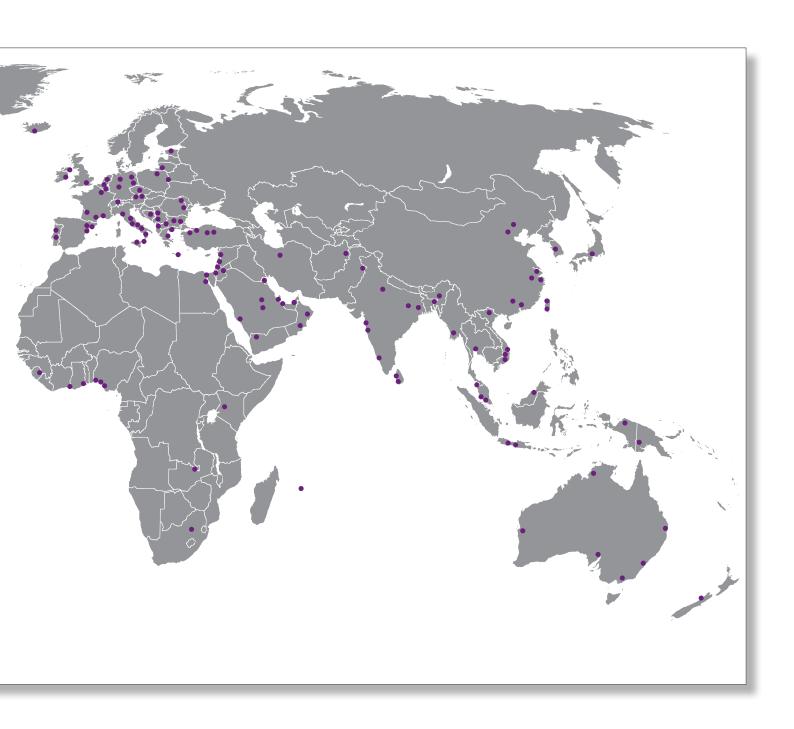
Our ground-breaking 'Remote Access Diagnostics' allows immediate support of your system wherever, whenever, reducing downtime and ensuring you are operational as soon as possible.

Randox is committed to the smooth running of your laboratory, from the provision of quality products to unequalled customer support. We can access, diagnose and resolve many queries without the time and costs associated with call outs.





email: biochip.support@randox.com



Evolution of Evidence

A proven technology has evolved

First of a kind for reliable multiplex testing within clinical, veterinary, forensic, research and pharmaceutical testing

Biochip Array Technology, a revolution in immunoassay technology, has evolved continuously over the years, giving the world accurate, high quality results faster and more efficiently than any previous method. It enables clinicians and investigators to see the full picture with complete test profiles, whilst reducing labour, time and costs. Together



Evidence Investigator

The Evidence Investigator brought Biochip Array Technology within reach of the smaller laboratory and extended the test menu to include molecular arrays.

Evidence

The original high throughput Evidence analyser still brings unrivalled benefits for batch analysis in the larger laboratory.

the technology and the analysers have evolved to allow application in fields as varied as clinical diagnostics, forensic toxicology, veterinary, pharmaceutical, food diagnostics, research and many more. Randox is committed to constant research and development, ensuring that you remain at the cutting edge of laboratory medicine.



Evidence Evolution

The Evidence Evolution is the world's first Random Access biochip testing platform, with advanced STAT testing capabilities.

Specifications

Physical Dimensions

Height 1.7m

Depth 1.0m

Width 2.0m

Weight (TBC) 605kg (approx)

Performance Characteristics

Accreditation Accredited to CE, UL and ISO 9001 certification

Analyser Description Automated biochip array analyser

Biochip Capacity 360 biochips

Biochip Format Biochip carrier holds 9 individual biochips

Calibration Method 4-parameter curve fit
Connectivity LIMS integration

Data Back-Up Methods Floppy disc drive, hard drive and CD ROM drive

Environment Operating temperature 16 to 30°C

Relative Humidity < 80%

Altitude < 2000m

Pollution degree 2 (IEC 664)

Incubation Time 30-60 minutes (Array specific)

Installation RequirementsEvidence must be connected to a three-wire power supply with a safety ground

Measurement Principal Competitive, Sandwich and Antibody Capture techniques with Chemiluminescent reaction

Peripherals PC, printer, mouse, imaging software

Quality Control Levey-Jennings, user definable multipoint rules

Reagent Volume Array specific, supplied in kits

Sample Capacity Up to 180 samples

Sample Loading Continuous sample loading

Sample Throughput Up to 1500 tests per hour (Array specific)

Sample Type Serum, plasma, urine, whole blood, oral fluid (Array specific)

Sample Volume 7 - 150 µl per biochip
Start Up / Shut Down Time 15 minutes / 10 minutes

Time to First Result From 55 minutes (Array specific)

Power Requirements

Supply Voltage Power unit source: AC 120V 16A(Max.)/AC 240V 6A(Max.)

N. America 120V, 60HzRest of World 230V, 50HzPower consumption 1500W

UPS Optional

Water Requirements

Water Quality CLSIType II or better

Catalogue No. / Ordering details

Evidence Analyser EV3600



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