



evidence
investigator

RANDOX

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investigator™

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The **evidence investigator™** is a research and clinical biochip reader: dedicated to multi-analyte analysis utilising the full Randox portfolio of biochip assays. The **evidence investigator™** is a compact bench-top biochip system comprising a super cooled charge coupled device [CCD] camera and unique image processing software.

The biochip

The biochip is a 9mm² solid substrate with multiple specific ligands [antibodies or antigens] attached at pre-defined sites on the surface. At present up to 25 tests can be pre-fabricated onto the biochip surface.

Application of biochip array technology

- ◆ Diagnostics for a wide range of applications
- ◆ Pharma and Drug development - Pre-Clinical and Clinical studies: Phases I – III
- ◆ Research Applications - Universities, Contract Research Organisations, Private/Public Sector Research, Environmental/Veterinary laboratories

Methodology

The **evidence investigator™** utilises the basic principles of immunology; supporting competitive, sandwich and antibody capture immunoassay formats. The competitive assay utilises an enzyme labelled analyte for signal production whereas the sandwich assay utilises an enzyme labelled antibody. The chemiluminescent signals are simultaneously measured for the full array of tests on each chip.

evidence investigator™

- offers
- ◆ Clinical control with calibrated methods and quality control materials
 - ◆ Multiplexing: one sample, multiple results
 - ◆ Minimal sample required, between 25 - 100µl per array
 - ◆ Ready to use: biochips are prepared with all the materials necessary to run tests immediately
 - ◆ Regulatory approved technology for clinical applications
 - ◆ Unique software designed and dedicated for ease of use with biochip array technology

Biochips now available

- Free Thyroid Array
- Total Thyroid Array
- Fertility Array
- Tumour Monitoring Array
- Tumour PSA Array
- Cytokines & Growth Factors Array
- Drugs of Abuse Array
- Cardiac Array

Biochips in development

- Cardiovascular disease DNA array
- Colorectal cancer DNA array
- Customised chips
- Adhesion Molecule Array
- Growth Promoter Drug Residue Array
- Antibiotic Drug Residues Array
- Allergen Array (IgE)
- Anaemia Array
- Future Developments

Reagent packs: Protein Biochip Kit contents

- 6 biochip carriers [each carrier contains 9 biochips]
- Assay diluent
- Ready to use multi-analyte conjugate
- Wash buffer concentrate
- Signal reagent
- 9 multi-analyte calibrators
- Calibrator concentration data
- Application notes

evidence investigator™ package

- evidence investigator™ imaging module
- PC, flat screen, keyboard and mouse
- Unique imaging processing software for image analysis, result reporting and QC
- Barcode scanner for calibrators/kit barcodes
- Custom Thermoshaker

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