

RANDOX
BIOSCIENCES

Advancing scientific discovery,
drug development and diagnostics



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RANDOX BIOSCIENCES



Introduction

Randox Laboratories is an international clinical diagnostic solutions company with over 35 years' experience in the industry, providing revolutionary products for laboratories worldwide and is dedicated to improving health.

Randox Biosciences is part of Randox Laboratories and is dedicated to advancing scientific discovery, drug development and diagnostics.

Spanning four key divisions; Life Sciences, Pharma Sciences, Research and Molecular; Randox Biosciences offers complete tailored solutions for clinical and research use.

From the initial generation of raw materials for assay development, through to providing companion diagnostics, custom and molecular based assays across a range of therapeutic areas; Randox Biosciences is a trusted partner supplying quality diagnostic solutions to the clinical, life science, pharmaceutical, research and biopharma industries.

Therapeutic Areas

Randox Biosciences extensive product range covers over 400 separate biomarker assays for routine and esoteric testing across a broad range of therapeutic areas including:

- Cardiovascular & Cerebrovascular
- Metabolic & Nutrition
- Immunology
- Oncology
- Endocrinology
- Rheumatology
- Nephrology
- Neuroscience
- Pulmonary & Respiratory
- Infection
- Ophthalmology

Biochip Array Technology

Exquisite precision in multiplex testing



Many years of development and the expertise of highly qualified scientists has been invested to create the Biochip Array Technology (BAT) - a multi-analyte testing platform facilitating the simultaneous quantitative or qualitative detection of a wide range of analytes from a single sample. Biochip Array Technology provides a unique platform for assessment of biological samples in a rapid, accurate and easy to use format and users can have the utmost confidence in this proven technology.

A chemically activated 9x9mm ceramic biochip acts as a solid phase reaction vessel. Biochips are pre-fabricated with discrete test regions (DTR's); a different antibody/oligonucleotide is immobilised at each spatially distinct DTR. Up to 49 individual DTR's can be arrayed on to a single biochip with one biochip per sample used to generate multiple results simultaneously. This eliminates the need to run costly, time consuming and sample intensive single analyte assays.

The biochip detection is based on a chemiluminescent signal emitting light, without heat, as a result of a chemical reaction. The light emitted is simultaneously detected and quantified using a CCD camera.

Applications:

- Clinical Laboratories
- Academic Research
- Drug Development (CRO's and Pharma)
- Molecular Research and Diagnostics
- Forensic and Clinical Toxicology
- Environmental Laboratories

Key Features & Benefits

Highly accurate testing

- Fully validated arrays offering reproducible testing with CV's <10%
- Multiplex analysis minimises analytical variation between tests

Consolidated testing

- One platform/system for immunoassays and nucleic acid multiplex testing
- Custom biochip arrays eliminate requirement for multiple single analyte ELISA's

Cost consolidation

- Multiplex testing reduces the amount of time spent on individual tests and associated lab costs

Reduced sample volume

- Multiple biomarker results from as little as 7µl conserves valuable sample

Wide test menu

- Expanding menu of routine and novel biomarkers plus custom array development

Multiple sample matrices

- Multiple matrices can be used with BAT including serum, plasma, whole blood, urine, oral fluid, extracted DNA and alternative matrices

Extensive quality control features

- Internal controls on each biochip ensure optimum assay performance
- Multi-analyte QC sera standardised to WHO/NIBSC reference material where available

Result traceability

- Bar-coded biochips and scanner for patient samples ensures complete traceability of results

Retrospective Reporting

- Retrieve previously unreported results without additional testing, saving time



Evidence Series Immunoanalysers

Multiplex Platforms

Evidence Evolution

The Evidence Evolution is the world's first fully automated random access biochip testing platform. It sets new standards in diagnostic quality and efficiency to deliver precise results quickly and economically. With the capability to process up to 2,640 tests per hour, the Evidence Evolution offers complete system integration, as well as the most comprehensive multiplex test menu on the market.



Dimensions

1320 (H) x 1200 (D) x 1675 (W) mm



Any Test, Any time

Evidence Evolution is a highly versatile analyser which can process any required workflow including batch analysis, STAT samples, and true random access.



Fast Turnaround Time

Capability to achieve 2640 test results per hour.



Cost consolidation

Multiplex technology allows numerous tests to be performed from a single patient sample, reducing the amount of time and labour spent on individual tests, while also providing a complete patient profile.



Superior Intelligence

Features such as automatic start-up and shut down, reflex testing capabilities and traceability of biochips and reagents, ensures the Evidence Evolution can be tailored to your laboratory needs.



Enhanced User Experience

Highly intuitive software, customisable user settings and easy to follow result screens ensures usability, allowing laboratories to achieve fast and accurate operations with uncompromised quality.



Workflow Optimisation

With continuous sample and reagent loading, alongside automated on-board sample dilution and sample information entry; the Evidence Evolution, with a walk away time of 2 hours, is a convenient solution for busy laboratories.

Evidence

The Evidence analyser is the world's first protein Biochip Array Technology system and has truly transformed laboratory diagnostics worldwide. As the first of its kind, the Evidence has introduced higher standards of quality efficiency and reliability to numerous sectors including hospital and clinical laboratories, forensic and clinical toxicology, pharmaceutical/CRO applications, as well as veterinary laboratories.



Dimensions

1750 (H) x 1000 (D) x 2000 (W) mm



Cost consolidation

Multiplex technology allows numerous tests to be performed from a single sample, providing a complete patient result profile.



Fast Turnaround Time

Capability to achieve 3690 tests per hour.



Enhanced User Experience

Highly intuitive software, customisable user settings and an easy to follow result screen ensures usability, allowing laboratories to achieve fast and accurate operations with uncompromised quality.



Workflow Optimisation

Fully automated system, maximising walk-away time suitable for a busy laboratory.

Evidence Investigator

The Evidence Investigator is the #1 choice for research, clinical, forensic, molecular and veterinary testing. The semi-automated multiplex analyser has the unique ability to consolidate immunoassay and molecular diagnostics on a single platform with protein and DNA biochips. The Evidence Investigator can process 2376 tests per hour using protein arrays.



Dimensions

750 (H) x 480 (D) x 420 (W) mm



Fast Turnaround Time

Capability to achieve 2376 tests per hour with 44 analytes screened per biochip.



Diverse Test Menu

More tests available than any other sole supplier.



Workflow Optimisation

Multiplex testing facilitates laboratory efficiency



Cost consolidation

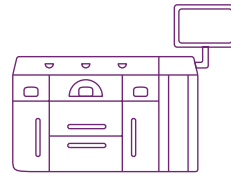
Multiplex technology allows numerous tests to be performed from a single patient sample, while also providing a complete patient profile.

Evidence Series

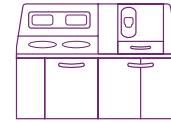
Test Menu

Array	Evolution	Evidence	Investigator
Adhesion Molecules			
E-Selectin	●	●	●
Intercellular Adhesion Molecule-1 – ICAM-1	●	●	●
L-Selectin	●	●	●
P-Selectin	●	●	●
Vascular Cell Adhesion Molecule-1 – VCAM-1	●	●	●
Acute Kidney Injury			
Kidney Injury Molecule – KIM-1			●
Neutrophil Gelatinase-Associated Lipocalin – NGAL			●
Cystatin C			●
Clusterin			●
Osteopontin			●
Alzheimer's			
Apolipoprotein E4 – ApoE4	●		●
Pan Apolipoprotein E – Apo E	●		●
Anaemia			
Folate	●		
Vitamin B12	●		
Cardiac			
Cardiac Troponin I – cTnI	●		●
Creatine Kinase MB – CKMB	●		●
Heart Type Fatty Acid Binding Protein – H-FABP	●		●
Myoglobin	●		●
Cerebral I			
Brain-Derived Neurotrophic Factor – BDNF			●
Glial Fibrillary Acidic Protein – GFAP			●
Heart-Type Fatty Acid-Binding Protein – H-FABP			●
Interleukin-6 – IL-6			●
Cerebral II			
C-Reactive Protein – CRP			●
D-Dimer			●
Neuron Specific Enolase – NSE			●
Soluble Tumour Necrosis Factor Receptor I – sTNFR I			●
Neutrophil Gelatinase-Associated Lipocalin – NGAL			●
Chronic Kidney Disease I			
Fatty Acid Binding Protein-1 – FABP1	●		●
Soluble Tumour Necrosis Factor Receptor I – sTNFR I	●		●
Soluble Tumour Necrosis Factor Receptor II – sTNFR II	●		●
Macrophage Inflammatory Protein I α – MIP-1 α	●		●
Interleukin-8 – IL-8	●		
Epidermal Growth Factor – EGF	●		
D-Dimer	●		

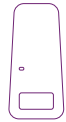
Array	Evolution	Evidence	Investigator
Chronic Kidney Disease II			
Adiponectin	●		
Complement C3a des Arginine – C3a des Arg	●		●
C-Reactive Protein – CRP	●		●
Neutrophil Gelatinase-Associated Lipocalin – NGAL	●		●
Cystatin C	●		●
Cytokine I			
Interleukin-1 alpha – IL-1 α	●	●	●
Interleukin-1 beta – IL-1 β	●	●	●
Interleukin-2 – IL-2	●	●	●
Interleukin-4 – IL-4	●	●	●
Interleukin-6 – IL-6	●	●	●
Interleukin-8 – IL-8	●	●	●
Interleukin-10 – IL-10	●	●	●
Vascular Endothelial Growth Factor – VEGF	●	●	●
Epidermal Growth Factor – EGF	●	●	●
Tumour Necrosis Factor- α – TNF- α	●	●	●
Interferon- γ – IFN- γ	●	●	●
Monocyte Chemotactic Protein-1 – MCP-1	●	●	●
Cytokine III			
Interleukin-5 – IL-5			●
Interleukin-15 – IL-15			●
Granulocyte Macrophage Colony Stimulating Factor – GM-CSF			●
Macrophage Inflammatory Protein-1 α – MIP-1 α			●
Cytokine IV			
Matrix Metalloproteinase-9 – MMP-9			●
Soluble IL 2 Receptor Alpha – sIL-2R α			●
Soluble IL 6 Receptor – sIL-6R			●
Soluble Tumour Necrosis Factor Receptor I – sTNFR I			●
Soluble Tumour Necrosis Factor Receptor II – sTNFR II			●
Cytokine V			
Interleukin-3 – IL-3			●
Interleukin-7 – IL-7			●
Interleukin-13 – IL-13			●
Interleukin-12p70 – IL-12p70			●
Interleukin-23 – IL-23			●
Endocrine			
Cortisol	●		
Dehydroepiandrosterone-Sulphate – DHEA-S	●		



Evidence Evolution



Evidence



Evidence Investigator

Array	Evolution	Evidence	Investigator
Fertility			
Estradiol	●		
Follicle Stimulating Hormone – FSH	●		
Luteinizing Hormone – LH	●		
Progesterone	●		
Prolactin	●		
Sex Hormone Binding Globulin – SHBG	●		
Gastro			
Gastrin 17 – GI7	●		●
Pepsinogen I – PGI	●		●
Pepsinogen II – PGII	●		●
Helicobacter Pylori			
Helicobacter pylori – H. pylori	●		●
Metabolic Syndrome I			
Ferritin	●	●	●
Insulin	●	●	●
Leptin	●	●	●
Plasminogen Activator Inhibitor – PAI-I	●	●	●
Resistin	●	●	●
Interleukin-6 – IL-6		●	●
Tumour Necrosis Factor- α – TNF- α		●	●
Metabolic Syndrome II			
Adiponectin		●	●
C-Reactive Protein – CRP		●	●
Cystatin C		●	●
Stroke			
D-Dimer	●		
Glial Fibrillary Acidic Protein – GFAP	●		
Glutathione S – Transferase Pi – GSTPi	●		
Heart-Type Fatty Acid-Binding Protein – H-FABP	●		
Interleukin-6 – IL-6	●		
Nucleoside Diphosphate Kinase – NDKA	●		
Parkinson Protein 7 – PARK-7	●		
Soluble Tumour Necrosis Factor Receptor I – sTNFR1	●		
Testosterone			
Testosterone	●		
Thyroid Auto Antibody			
Anti-Thyroid Peroxidase – Anti-TPO	●		
Anti-Thyroglobulin – Anti-Tg	●		

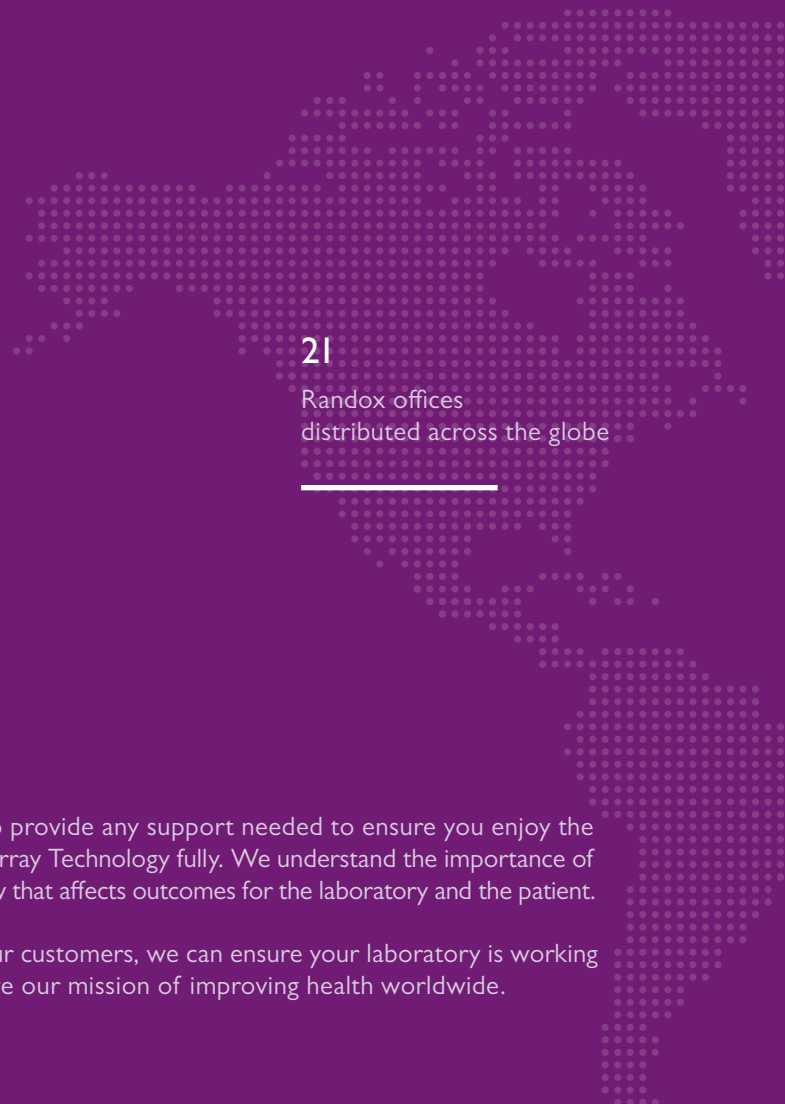
Array	Evolution	Evidence	Investigator
Thyroid Free			
Free Thyroxine – FT4	●	●	●
Free Tri-iodothyronine – FT3	●	●	●
Thyroid Stimulating Hormone – TSH	●	●	●
Thyroid TBG			
Thyroxine Binding Globulin – TBG	●		
Thyroid Total			
Thyroid Stimulating Hormone – TSH	●		
Total Tri-iodothyronine – TT3	●		
Total Thyroxine – TT4	●		
Tumour PSA			
Total Prostate Specific Antigen – TPSA	●		
Free Prostate Specific Antigen – FPSA	●		
Vitamin D			
Vitamin D	●		

Specialised Customer Services

*Local Engineers.
Global Coverage.*

Radox 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.

We place extreme importance on customer service and so it is our top priority to provide the best quality support. Our global network of local specialists are here to help you and respond rapidly to any query.



At Radox we are always ready to provide any support needed to ensure you enjoy the advantages of our unique Biochip Array Technology fully. We understand the importance of consistent analyser run time and how that affects outcomes for the laboratory and the patient.

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

technical.services@radox.com

145

countries covered
by our distributor network

47

technical support specialists

39

trained engineers

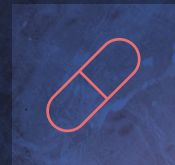
350

scientists placed
around the world

Inventing Quality Solutions

PHARMA SERVICES

Our Pharma Sciences division hosts unrivalled technical expertise in diagnostic and CDx assay development built on over 30 years' experience in IVD. We can provide a customized service from our in-house antibody development, reagents and QC to meet biopharmaceutical and CRO project requirements and our Central Laboratory service, (RCLS) hosts the latest technology to facilitate any clinical testing requirements in rapid timeframes.



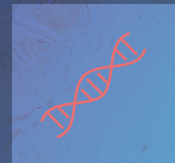
LIFE SCIENCES

Randox Life Sciences have been developing and manufacturing antibodies, proteins and conjugates for over 30 years for use in diagnostic kits. We have a wide range of polyclonal and monoclonal antibodies, antibody fragments, recombinant proteins and conjugates. A custom development service is also available for all raw materials.



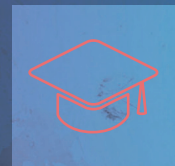
MOLECULAR DIAGNOSTICS

Randox Molecular offers diagnostic, prognostic and predictive solutions across a variety of disease areas including sexually transmitted infection, cardiovascular disease, familial hypercholesterolemia, colorectal cancer and respiratory infection. Utilizing our innovative Biochip Array Technology with multiplex PCR technology our molecular arrays produce rapid, precise results from one single sample for complete patient profiling and risk prediction.



RESEARCH

Randox Research offers a comprehensive range of technologies and solutions to universities globally. Whether it is biomarker identification studies right through to clinical trials, we can provide you with a full range of arrays, biomarkers and analysers that will best fit your individual project requirements.



[Discover More](#)

info@randoxbiosciences.com

[!\[\]\(899d8b7697d64725bf017d3296cfcf1b_img.jpg\) Randox Biosciences](#)



Custom Assay Development

Custom multiplex solutions that advance your clinical research

Custom Assay Development

For over 35 years, Randox Biosciences has been providing custom assay design, development and manufacturing services to the diagnostic, pharmaceutical, contract research and biotech industries. This also includes fully customised human and animal quality control sera and calibrators.

Randox Biosciences expertise, highly specialised scientists and world-class ISO accredited manufacturing facilities enables us to provide a service and product tailored to a specific research and development or clinical trial requirement.

Custom Build Process

Clients can select either individual or multiple analytes from the current A-Z Menu. We offer an impressive menu of over 380 clinical and research biomarkers.

Randox Biosciences' dedicated custom unit can then design a novel singleplex or multiplex biochip tailored to each customer's requirements taking into account sample types, available sample volumes and expected ranges and sensitivity for various analytes of interest.

Should your needs exceed those provided by one of our standard arrays, or if you are researching a particular set of analytes, we would encourage you to approach a Randox Biosciences representative with your specific requirements or email info@randoxbiosciences.com.

Randox Biosciences assay development specialists will endeavour to work with you to ensure your needs are constantly met and provide a smooth process from the time of your first enquiry through to final delivery, following the steps outlined below:

STEP 1

Submission of custom array requirements (completion of Biochip Questionnaire Form)

STEP 2

Randox custom R&D unit carry out feasibility assessment

STEP 3

If feasible, a quote will be forwarded to the customer

STEP 4

Confirmation of order and biochip manufacturing commences

A-Z Custom Biochip Test Menu

Analyte	Abbrev.	AKA
17-Hydroxyprogesterone ***	PROG	
70 Kilodalton Heat Shock Proteins	HSP70	
A Disintegrin and Metalloproteinase Domain 12	ADAM12	
A Disintegrin And Metalloproteinase with Thrombospondin Motifs 1	ADAMTS-1	
A Proliferation-Inducing Ligand	APRIL	
Activin A		
Adiponectin ***	GBP-28	
Adrenocorticotrophic Hormone	ACTH	
Adrenomedullin	ADM	
Agouti	AgRP	
Albumin	ALB	
Alpha Synuclein	SNCA	
Alpha-1 Antitrypsin	α-1-AT	
Alpha-1 Microglobulin	α-1M	
Alpha-2 Macroglobulin	α-2M	
Amphiregulin		
Amyloid A	SAA	
Angiotensin I	ANG1	
Angiotensin II	ANG2	
Angiotensin II		
Anti-Müllerian hormone	AMH	MIF, MIS, MIH
Apelin		
Apolipoprotein A1	APOA1	
Apolipoprotein C1	Apo C1	
Artemin	ARTN	
Asymmetrical Dimethylarginine	ADMA	
Atrial Natriuretic Peptide	ANP	
Basal Cell Adhesion Molecule	BCAM	
B-cell Activating Factor	BAFF	BlyS/TNFSF13B
B-cell Attracting chemokine 1	BCA-1	CXCL13/BLC
B-cell Lymphoma Extra Large	BCL-XL	
Bcl-2 Associated X Protein	Bax	
Beta Defensin 2	BD-2	SAP1
Bone Morphogenetic Protein 6	BMP-6	
Bone Morphogenetic Protein 7	BMP-7	
Brachyury	T	
Brain Natriuretic Peptide	BNP	
Brain-Derived Neurotrophic Factor	BDNF	
Cadherin K	KCAD	
Calcitonin	CT	
Carbonic anhydrase III	CaIII	
Cardiac Troponin I ***	cTnI	
Cartilage Oligomeric Matrix Protein	COMP	
Caspase 1	CASP 1	
Caspase 6	CASP 6	
Caspase 9	CASP 9	
Cathepsin C	CTSC	
Chemerin	RARRES2	
Chemokine (C-C motif) Ligand 1	CCL1	I-309
Chemokine (C-C motif) Ligand 13	CCL13	MCP4
Chemokine (C-C motif) Ligand 14	CCL14	HCC-1
Chemokine (C-C motif) Ligand 15	CCL15	MIP-5
Chemokine (C-C motif) Ligand 17	CCL17	TARC
Chemokine (C-C motif) Ligand 18	CCL18	PARC
Chemokine (C-C motif) Ligand 19	CCL19	MIP-3b
Chemokine (C-C motif) Ligand 20	CCL20	MIP-3a
Chemokine (C-C motif) Ligand 21	CCL21	Exodus-2

Analyte	Abbrev.	AKA
Chemokine (C-C motif) Ligand 22	CCL22	MDC
Chemokine (C-C motif) Ligand 24	CCL24	MPIF-2/Eotaxin2
Chemokine (C-C motif) Ligand 26	CCL26	Eotaxin-3
Chemokine (C-C motif) Ligand 27	CCL27	CTACK
Chemokine (C-C motif) Ligand 28	CCL28	MEC
Chemokine (C-X-C motif) Ligand 1	CXCL1	GRO1
Chemokine (C-X-C motif) Ligand 4	CXCL4	PF-4
Chemokine (C-X-C motif) Ligand 5	CXCL5	ENA-78
Chemokine (C-X-C motif) Ligand 7	CXCL7	NAP-2
Chemokine (C-X-C motif) Ligand 9	CXCL9	MIG
Chemokine (C-X-C motif) Ligand 11	CXCL11	I-TAC
Chemokine (C-X-C motif) Ligand 12	CXCL12	SDF-1
Chemokine (C-X-C motif) Ligand 13	CXCL13	BCA-1
Chemokine (C-X-C motif) Ligand 16	CXCL16	SRPSOX
Chemokine (C-X-C motif) Ligand 17	CXCL17	VCC-1
Chemokine 3 Ligand 1	CX3CL1	Fractalkine
Chymase	CMA 1	
Cleaved Poly ADP Ribose Polymerase	CleavedPARP	
Cluster of Differentiation 4	CD4	
Cluster of Differentiation 14	CD14	
Cluster of Differentiation 28	CD28	
Cluster of Differentiation 30	CD30	
Cluster of Differentiation 36 (soluble)	sCD36	
Cluster of Differentiation 56	CD56	
Cluster of Differentiation 66e	CD66e	CEACAM5
Cluster of Differentiation 127	CD127	
Cluster of Differentiation 163	CD163	
Clusterin	CLUS	
Collagen 1	Coll	
Collagen Type 2	CIIM	
Collagen Type 3	C3M	COL3A1
Collagen Type 4	C4	COL4
Complement 3	C3	
Complement 3a	C3a	
Connective Tissue Growth Factor	CTGF	
Cortisol ***	CORT	Hydrocortisone
C-Peptide ***	CPEP	
C-Reactive Protein ***	CRP	
Creatine Kinase ***	CKMB	
CRPM	CRPM	SH3BP2
Cyfra 21-1	Cyfra 21-1	
Cystatin C ***	CST3	
Cytokeratin 18 M-65	CK18	
D-Dimer	DD	
Defensin	NP1	
Dehydroepiandrosterone ***	DHEAS	
Dickkopf Related Protein 1	DKK-1	
Elafin	SKALP	
Endothelin-1	EDN1	
Eotaxin	CCL11	
Epidermal Growth Factor	EGF	
Epidermal Growth Factor Receptor	EGFR	
Epigen	EPGN	
Epiregulin		
E-selectin	ESEL	
Estradiol ***	E2	
Factor VII	F7	
Fatty Acid Binding Protein 1	FABP1	
Fatty Acid Binding Protein-Liver	L-FABP	

A-Z Custom Biochip Test Menu

Analyte	Abbrev.	AKA
Fatty-Acid Binding Protein	FABP	
Ferritin ***	FTN	
Ferritin Light Chain	FTL	
Fibrinogen	Fib	
Fibroblast Growth Factor 4	FGF-4	
Fibroblast Growth Factor 7	FGF-7	
Fibroblast Growth Factor 19	FGF-19	
Fibroblast Growth Factor 21	FGF-21	
Fibroblast Growth Factor 23	FGF-23	
Fibroblast Specific Proein-1	FSP-1	
Fibronectin	FN	
FMS-Related Tyrosine Kinase 1	FLT1	VEGFR1
FMS-Related Tyrosine Kinase 3	FLT3 Ligand	CD135
Folate Receptor Alpha	FOLR1	
Follicle-Stimulating Hormone ***	FSH	
Follistatin	FST	
Galectin 3	G3	
Glial Fibrillary Acidic Protein	GFAP	
Glutathione S-Transferase A1	GSTA1	
Glycogen Phosphorylase Isoenzyme BB	GPBB	
Glycosylated haemoglobin	HbA1c	
Granulocyte Colony Stimulating Factor	G-CSF	CSF3
Granulocyte-Macrophage Colony-Stimulating Factor	GMCSF	
Granzyme B	GZMB	
Growth Differentiation Factor 11	GDF-11	
Growth Differentiation Factor 15	GDF-15	
Heme Oxygenase-1	HO-1	
Hemopexin	HPX	
Heparin-Binding Epidermal Growth Factor	HB-EGF	
Heparin-Binding Protein	HBP	Azurocidin/CAP37
Hepatocyte Growth Factor	HGF	
Hepcidin	HEPCIDIN	
Heregulin	NRG-1	
High-mobility group protein B1	HMGB1	
Histone Deacetylase 6	HDAC 6	
Human epididymis protein 4	HE4	
Human Growth Hormone	HGH	
Hypoxia-Inducible factor 1, alpha subunit	HIF-1α	
Immunoglobulin E	IgE	
Insulin	INS	
Insulin-Like Growth Factor 1	IGF1	
Insulin-Like Growth Factor 2	IGF2	
Insulin-Like Growth Factor 1 Receptor	IGF1R	
Insulin-Like Growth Factor 2 Receptor	IGF2R	
Insulin-Like Growth Factor Binding Protein 2	IGFBP2	
Insulin-Like Growth Factor Binding Protein 3	IGFBP3	
Intercellular Adhesion Molecule 1	ICAM-1	
Interferon alpha	IFNα	
Interferon alpha 2	IFN-α2	
Interferon beta	IFNβ	
Interferon gamma	IFNγ	
Interferon gamma-induced protein 10	IP-10	
Interleukin 1 alpha	IL-1α	
Interleukin 1 beta	IL-1β	
Interleukin 1 Receptor 4	IL-1R4	ST2
Interleukin 1 Receptor alpha	IL-1Ra	
Interleukin 2	IL-2	

Analyte	Abbrev.	AKA
Interleukin 3	IL-3	
Interleukin 4	IL-4	
Interleukin 5	IL-5	
Interleukin 6	IL-6	
Interleukin 7	IL-7	
Interleukin 8	IL-8	
Interleukin 9	IL-9	
Interleukin 10	IL-10	
Interleukin 11	IL-11	
Interleukin 12	IL-12	
Interleukin 12p40	IL-12p40	
Interleukin 12p70	IL-12p70	
Interleukin 13	IL-13	
Interleukin 15	IL-15	
Interleukin 16	IL-16	
Interleukin 17A	IL-17A	
Interleukin 17F	IL-17F	
Interleukin 18	IL-18	
Interleukin-19	IL-19	
Interleukin-20	IL-20	
Interleukin 22	IL-22	
Interleukin 23	IL-23	
Interleukin 26	IL-26	
Interleukin 28a	IL-28A	
Interleukin 33	IL-33	
Interleukin 36g	IL-36g	
Kidney Injury Molecule 1	KIM-1	
Kirsten Rat Sarcoma Viral Oncogene	K-RAS	
Lectin-like Oxidized Low Density Lipoprotein (LDL) Receptor 1	LOX-1	
Leptin	LEPT	
Leukemia Inhibitory Factor	LIF	
Leukotriene B4	LTB4	
LIGHT	TNFSF14	CD258
Lipopolysaccharide Binding Protein	LBP	
Lipoprotein-associated Phospholipase A2	Lp-PLA2	
Liver Fatty Acid Binding Protein	FABP1	LFABP
L-selectin	LSEL	
Luteinizing Hormone	LH	
Lymphotactin	XCL1	
Lysl Oxidase Homolog 1	LOXL-1	
Lysl Oxidase Homolog 2	LOXL-2	
Lysl Oxidase Homolog 3	LOXL-3	
Lysl Oxidase Homolog 4	LOXL-4	
Macrophage Colony Stimulating Factor	M-CSF	CSF-1
Macrophage Inflammatory Protein 1 Alpha	MIP-1α	CCL3
Macrophage Inflammatory Protein 1 beta	MIP-1β	CCL4
Macrophage Migration Inhibitory Factor	MIF	
Matrix Metalloproteinase 9	MMP-9	
Matrix Metalloproteinase 1	MMP-1	
Matrix Metalloproteinase 2	MMP-2	
Matrix Metalloproteinase 3	MMP-3	
Matrix Metalloproteinase 7	MMP-7	
Matrix Metalloproteinase 8	MMP-8	
Matrix Metalloproteinase 10	MMP-10	
Matrix Metalloproteinase 13	MMP-13	
MHC Class 1 Chain Related Protein A	MICA	
Midkine	MK	
Milk Fat Globule EGF Factor 8 Protein	MFG-E8	Lactadherin

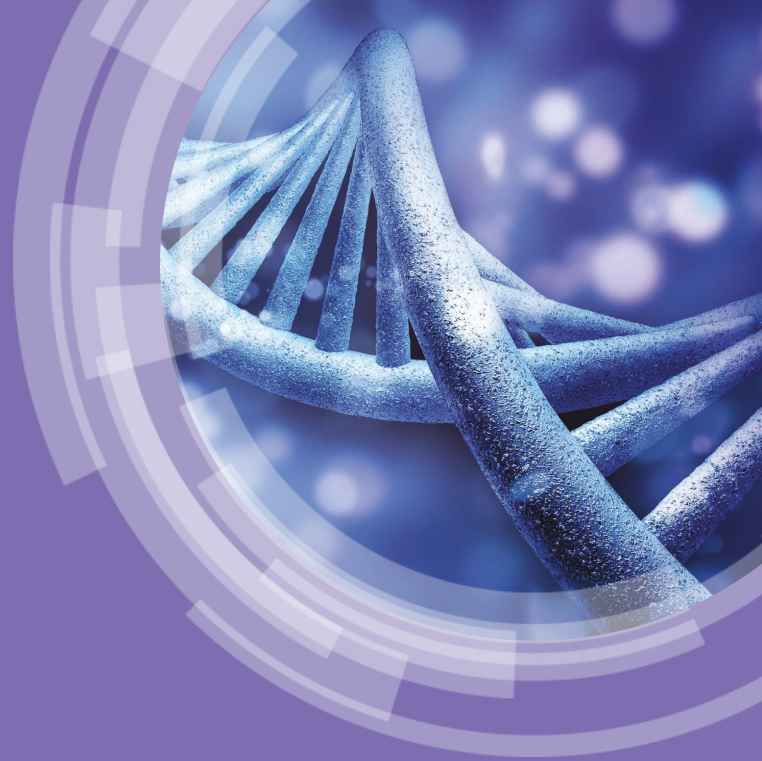
A-Z Custom Biochip Test Menu

Analyte	Abbrev.	AKA
Monocyte Chemotactic Protein 1	MCP-1	CCL2
Monocyte Chemotactic Protein 2	MCP-2	
Monocyte Chemotactic Protein 3	MCP-3	CCL7
Monokine induced by gamma interferon	MIG	
Mucin-1	MUC-1	
Myeloperoxidase	MPO	
Myoglobin	MYO	
Myosin Light-Chain Kinase	MLCK	
Nerve Growth Factor beta	NGF b	
Neuregulin 1	NRG-1	
Neuron-Specific Enolase	NSE	
Neutrophil Elastase	EIA2	
Neutrophil Gelatinase-Associated Lipocalin	NGAL	
Nitrotyrosine	NT	
N-Terminal pro B-type Natriuretic Peptide	NT-proBNP	
Nuclear Factor 2	NRF2	
Oligoadenylate Synthetase 1	OAS1	
Orexin A	OA	
Osteoactivin		
Osteocalcin	PGLAP	SPP1
Osteopontin	OPN	
Osteoprotegerin	TNFSF11B	
Oxidised Low-Density-Lipoproteins	ox-LDL	TSG-14
Pentraxin-Related Protein	PTX 3	
Pepsinogin 1	PG1	
Periostin	POSTN	
Persephin		
Phosphatidylinositol-Glycan Biosynthesis class F	PIGF	
pi Glutathione S-Transferase	pi-GST	
Placental Growth Factor	PGF	PIGF
Plasminogen Activator Inhibitor-1	PAI-1	Serpin E1
Platelet Derived Growth Factor	PDGF	
Platelet Derived Growth Factor - AA	PDGF-AA	
Platelet Derived Growth Factor Receptor beta	PDGFRB	
Platelet-Derived Endothelial Cell Growth Factor	PD-ECGF	
Platelet-Derived growth factor BB	PDGF-BB	
Procalcitonin	PCT	
Procollagen Type III N-Terminal Propeptide	PIIINP	
Pro Insulin	INS	
Prolactin	PRL	
Proprotein Convertase Subtilisin/Kexin type 9	PCSK9	
PSA	PSA	
P-selectin	PSEL	
Regulated and Normal T cell Expressed and Secreted	RANTES	CCL5
Renin	REN	
Resistin	ADSF	
Retinol Binding Protein 4	RBP-4	
S100 Calcium Binding Protein A8	S100A8	
S100A8/A9		
S100A12	EN-RAGE	
Sclerostin	SOST	
Secretory IgA	IgA	
Serotonin	5-HT	
Serum Amyloid A	SAA	
Sex Hormone-Binding Globulin	sHBG	

Analyte	Abbrev.	AKA
Soluble CD40 Ligand	sCD40L	
Soluble gp130	sgp130	
Soluble Interleukin 2 Receptor alpha	sIL-2Ra	
Soluble Interleukin 6 Receptor alpha	sIL-6Ra	
Soluble Interleukin 15 Receptor alpha	sIL-15Ra	
Soluble Tumor Necrosis Factor Receptor 1	sTNFR1	
Soluble Tumor Necrosis Factor Receptor 2	sTNFR2	
Stabilin-1	STAB-1	
Stem Cell Factor	SCF	
Stem Cell Factor Receptor	SCFR	
Stromal Cell-Derived factor-1	SDF-1	
Surfactant Protein A	SP-A	
Surfactant Protein D	SP-D	SFTPD
Transglutaminase 2	TG2	
Tenascin C	TN-C	
Testosterone	TEST	
Thrombomodulin	TM	
Thrombopoietin	THPO	
Thrombospondin-1	TSP-1	
Thymic stromal lymphopoietin	TSLP	
Thyroid-Stimulating Hormone	TSH	
Thyroxine	T4	
Tissue Inhibitor of Metalloproteinase 1	TIMP-1	
Tissue Inhibitor of Metalloproteinase 2	TIMP-2	
Tissue Inhibitor of Metalloproteinase 3	TIMP-3	
Tissue Inhibitor of Metalloproteinase 4	TIMP-4	
TNF-related apoptosis-inducing ligand	TRAIL	
Transferrin	TF	
Transforming Growth Factor Alpha	TGF-a	
Trefoil Factor 3	TF3	
Triiodothyronine	T3	
Tumor Necrosis Factor Ligand Superfamily Member 12	TWEAK	TNFSF12
Tumour Necrosis Factor alpha	TNF-a	
Tumour Necrosis Factor Receptor II	TNFR2	
Type IV Collagen	COL4	
Tyrosine Kinase with Immunoglobulin-Like and EGF-like Domains 1	Tie-1	
Tyrosine Kinase with Immunoglobulin-Like and EGF-like Domains 2	Tie-2	
Ubiquitin Carboxy-Terminal Hydrolase L1	UCHL1	
u-Plasminogen Activator	uPA	
Urokinase Receptor	uPAR	
Uromodulin	UMOD	THP
Uteroglobin	CC16	
VAP-1	VAP-1	
Vascular Cell Adhesion Protein 1	VCAM-1	
Vascular Endothelial Growth Factor	VEGF	
Vascular Endothelial Growth Factor A	VEGFa	
Vascular Endothelial Growth Factor B	VEGFb	
Vascular Endothelial Growth Factor C	VEGFc	
Vascular Endothelial Growth Factor D	VEGFd	
Vascular Endothelial Growth Factor Receptor 1	VEGFR1	
Vascular Endothelial Growth Factor Receptor 2	VEGFR2	
Vascular Endothelial Growth Factor Receptor 3	VEGFR3	
Visfatin	PBEF1	
Xlinked Inhibitor of Apoptosis Protein	XIAP	
YKL-40/Cartilage Glycoprotein 39	YKL-40	

Multiplex Molecular Arrays

*Precise diagnostics for
targeted therapy*



Radox Biosciences molecular arrays offer diagnostic, prognostic and predictive solutions across a variety of disease areas including sexually transmitted infection, respiratory tract infection, colorectal cancer, familial hypercholesterolemia (FH) and cardiovascular disease (CVD).

A wide range of assay formats are offered including SNP genotyping, pathogen detection and mutation detection. These assays are optimised for use with the Radox Evidence Investigator semi-automated bench top biochip analyser, offering consolidation, speed and ease-of-use.

Pathogen Detection - *STI Multiplex Array and Respiratory Multiplex Array*

Pathogen detection, through nucleic acid (DNA/RNA) analysis offers rapid, sensitive, multiplex detection of viral, bacterial and protozoan pathogens. Following nucleic acid extraction from a broad range of sample types (sputum, urine, swabs etc.), target DNA/cDNA is amplified in a single reaction and subsequently hybridised to a biochip array containing multiple pathogen-specific probes. This rapid, highly sensitive and specific process enables identification of primary and co-infections simultaneously, often in asymptomatic patients.

Mutation Detection - *KRAS BRAF PIK3CA* Array and Familial Hypercholesterolemia (FH) Arrays I & II*

The assays are based upon a combination of multiplex PCR and biochip array hybridisation. Innovative PCR priming technology permits high discrimination between multiple targets in a number of genes. A unique primer set is designed for each target which will hybridise to a complementary oligonucleotide probe spotted on a biochip discrete test region (DTR). This combination of priming and spatially organised biochip array technology enables enhanced specificity of the assay.

SNP Genotyping - *Cardiovascular Risk Prediction Array*

Rapid multiplex SNP genotyping is based on innovative primer design that can discriminate DNA sequences differing only by one base. Products amplified will correspond to target portions of DNA from tissue, buccal swabs or blood. Amplified regions are then hybridised to a biochip array with spatially tethered probes complementary to target amplicons. Each position on the biochip array corresponds to a specific SNP genotype and is capable of both multiplexing and determining the zygosity of the sample.

*PIK3CA Array for research use only

Multiplex Molecular Arrays

Assay protocol & test menu

- Ready-to-use nine biochip carrier
- Randox Biochips can support multiple assays per biochip
- Minimum batch of three biochips to facilitate a patient sample and positive and negative controls



Molecular testing with the Evidence Investigator can be summarised as follows:



EXTRACT DNA/RNA

Extract nucleic acid



HYBRIDISATION

Biotin-labelled amplified PCR product binds to corresponding unique biochip molecular probe



CONJUGATION

Addition of streptavidin labelled-horse radish peroxidase to produce a biotin-streptavidin-enzyme complex



SIGNAL REAGENT

Addition of equal volumes of luminol and peroxide to produce chemiluminescent biochip spot signal



RESULT REPORT

Easy to interpret positive/negative report generated automatically by the dedicated Evidence Investigator software

MULTIPLEX PCR

Single tube amplification using Randox multi-target primer sets



WASH STEP

Rinse away any unbound product



WASH STEP

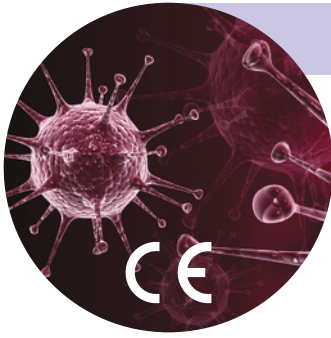
Rinse away any unbound conjugate



SIGNAL DETECTION

Biochip carrier is inserted into the Evidence investigator imaging platform. The system's CCD camera analyses the spots on each each biochip. Process takes 5 minutes per carrier





Sexually Transmitted Infection (STI) Array

CAT NO. EV3950A&B: 108 Biochip Kit

The Sexually Transmitted Infection Multiplex Array is the broadest IVD STI microarray panel on the market, simultaneously detecting 10 bacterial, viral and protozoan infections including primary, secondary and asymptomatic co-infections.

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)



Respiratory Multiplex Array

CAT NO. EV3947A&B: 108 Biochip Kit

The Respiratory Multiplex Array is the most comprehensive microarray test for infections of both the upper and lower respiratory tracts, simultaneously detecting 22 viral and bacterial pathogens from a single sputum, lavage or nasopharyngeal sample.

Viral:

Adenovirus A/B/C/D/E
 Coronavirus 229E/NL63
 Coronavirus OC43/HKU1
 Enterovirus A/B/C
 Human Bocavirus 1/2/3
 Human Metapneumovirus (hMPV)

Influenza A B
 Parainfluenza Virus 1/2/3/4
 Respiratory Syncytial Virus a (RSV a)
 Respiratory Syncytial Virus b (RSV b)
 Rhinovirus A/B

Bacterial:

Bordetella pertussis
Chlamydia pneumoniae
Mycoplasma pneumoniae
Legionella pneumophila
Moraxella catarrhalis
Streptococcus pneumoniae
Haemophilus influenzae



KRAS, BRAF, PIK3CA* Array

CAT NO. EV3799A&B: 54 Biochip Kit

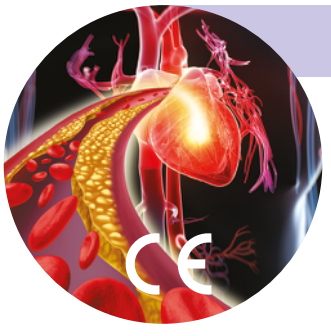
The KRAS, BRAF, PIK3CA Array simultaneously detects 20 point mutations within the KRAS, BRAF and PIK3CA genes. Whilst designed for colorectal cancer, the array has implications for mutation screening in other cancer types.

KRAS (codon 12, 13, 61, 146)

BRAF (codon 600)

PIK3CA* (codon 542, 545, 1047)

*PIK3CA targets for research use only



Familial Hypercholesterolemia (FH) Arrays

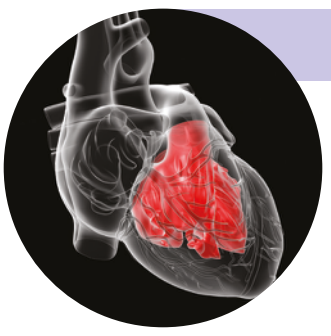
CAT NO. EV3917A&B, EV3825A&B: 54 Biochip Kits

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



Cardiac Risk Prediction Array

CAT NO. EV3836A&B: 72 Biochip Kit

The Cardiac Risk Prediction Array provides simultaneous genotyping of 20 SNPs identified from a GWAS study, for enhanced CHD risk assessment.

The array incorporates a test to identify patients predisposed to statin-induced myopathy.



Companion Diagnostics

Radox Biosciences - your Ideal Companion for CDx Development

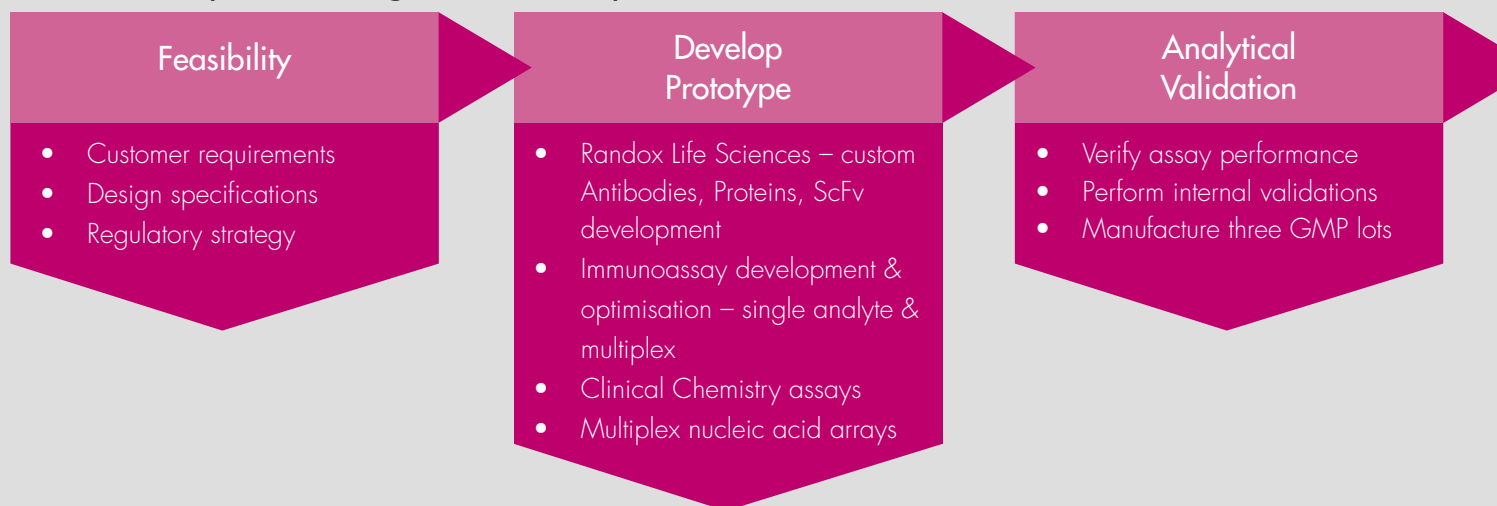
Personalised medicine is the result of our increased understanding of disease complexity and variability. It is now accepted that the future of the Pharmaceutical Industry is dependent on the development of therapeutic agents that are more closely tailored to targeted patient groups or sub-groups resulting in safer drugs with enhanced therapeutic efficacy with related healthcare savings.

A key element to realising the potential for personalised medicine is in companion diagnostic (CDx) development.

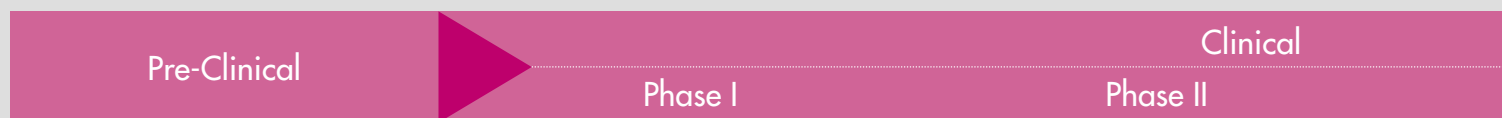
Radox Biosciences are committed to revolutionising healthcare by providing class-leading diagnostic, prognostic, and predictive assays.

Building on these unrivalled capabilities, Radox is engaged in companion diagnostic programs with a number of global Biopharma companies.

Radox Companion Diagnostic Development Plan



Pharmaceutical Development Phases



CDx services

- Off-the-shelf and fully customised clinical diagnostic and biomarker reagents
- Assay development for new biomarkers
- Full Life Sciences/Biotechnology service including monoclonal, polyclonal, antibody fragments and recombinant protein manufacture
- Quality controls and calibrators to support bespoke CDx assay requirements
- Full regulatory support at Randox for FDA 510k, FDA PMA, CE, cFDA and Health Canada regulatory submissions
- Global distribution and operations in over 145 countries ensuring no block to commercial adoption of the CDx

CDx Assay formats

With over 220 FDA cleared assays Randox offers the full package of Diagnostic and CDx assay development and optimisation which includes:

- Clinical chemistry assays and analysers
- Immunoassay assays and analysers
- Immunohistochemistry antibody development
- Multiplex protein and nucleic acid arrays and analysers

These include not only single analyte clinical chemistry based assays but multiplex pathogen detection, mutation, SNP and gene expression based arrays with applications across therapeutic areas such as oncology, immunoinflammation, CNS, infection and cardiovascular disease.

If you are interested in discussing a potential collaboration with Randox Biosciences, please contact one of the team on:

T +44 (0) 28 9442 2413

E info@randoxbiosciences.com

W randoxbiosciences.com

Clinical Validation

- Supply of kits
- Conduct clinical trials
- Perform external validations

Regulatory Submission

- Prepare submission
- Regulatory co-filing
- Full regulatory support including PMA/CE
- Global registrations
- Reimbursement

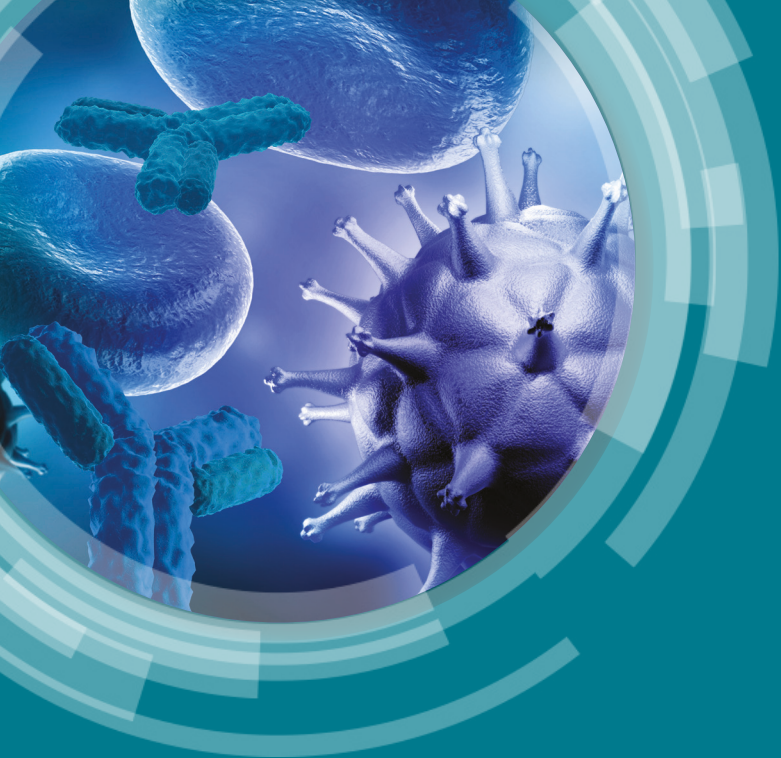
Post Launch Support

- Production lots in inventory
- Training & education
- Distribution

Phase III

Regulatory Submission

Post Launch Support



Antibodies & Human Recombinant Proteins

Advancing discovery, revolutionising diagnostics

Randox Biosciences is a world-leading primary manufacturer of high quality monoclonal and polyclonal antibodies, antibody fragments and human recombinant proteins. Our team of scientists possess unrivalled expertise which enables us to provide you with a comprehensive suite of products and services dedicated to advancing biopharmaceutical research and diagnostics.

Product Portfolio

Randox Biosciences offers an extensive portfolio of **over 900 products** for a multitude of R&D applications including more than **500 monoclonal and polyclonal antibodies** and over **140 human recombinant proteins** as well as **antibody fragments**, buffers & diluents and plasma.

Monoclonal Antibodies

- **Biochemical markers:** Biochemical messengers, fatty acid binding proteins and products with applications in the following therapeutic areas; Immunology, Oncology, Cardiovascular/Cerebrovascular and Metabolic/Nutrition
- **Drugs of abuse:** Alcohol, Anti-depressants, Barbiturates, Hallucinogens, Opiates, Stimulants
- **Drug Residues:** Antimicrobial Drugs, Growth Promoters, Mycotoxins

Recombinant Antibody Fragments

- Single chain variable fragment (scFvs)
- Single domain antibodies (sdAbs)

Human Recombinant Proteins (*E.Coli* & Mammalian)

- Adhesion Molecules
- Chemokines
- Cytokines
- Proteases
- Tumour markers

Polyclonal Antibodies

- **Biochemical markers:** Biochemical messengers, fatty acid binding proteins and products with applications in the following therapeutic areas; Immunology, Oncology, Cardiovascular/Cerebrovascular and Metabolic/Nutrition
- **Drugs of abuse:** Alcohol, Analgesics, Anti-depressants, Barbiturates, Benzodiazepines, Hallucinogens, Opiates, Sedatives, Stimulants, Synthetic Drugs, Therapeutic drugs
- **Drug Residues:** Anti-inflammatory Drugs, Antimicrobial Drugs, Anti-Parasitic Drugs, Growth Promoters, Mycotoxins

Frozen Human Plasma

- Available in three formats (Male, Female and Mixed Gender)
- Highly screened for; HIV, Hepatitis B+C, HTLV I + II, Syphilis, CMV and Procleix WNV

Buffers & Diluents

- Complementary range available

Key Features & Benefits

- All products manufactured at our ISO 13485 accredited UK manufacturing plant
- Extensive product range of over 900 products
- Over 30 years experience in raw material manufacture and assay development
- Many unique and novel products including designer drugs, Mycotoxins and oncology markers
- As our host animals are sheep, our antibodies have higher sensitivity and specificity
- Excellent reproducibility between lot numbers
- Products reflect the components used in-house in the production of Randox diagnostic products and research programs
- Highly experienced in developing difficult targets (i.e. small molecules and novel biomarkers)
- Full customisation service available
- A range of pack sizes available including bulk quantities for commercial development
- Products can be used in a multitude of diagnostic and research applications

Custom Development Services

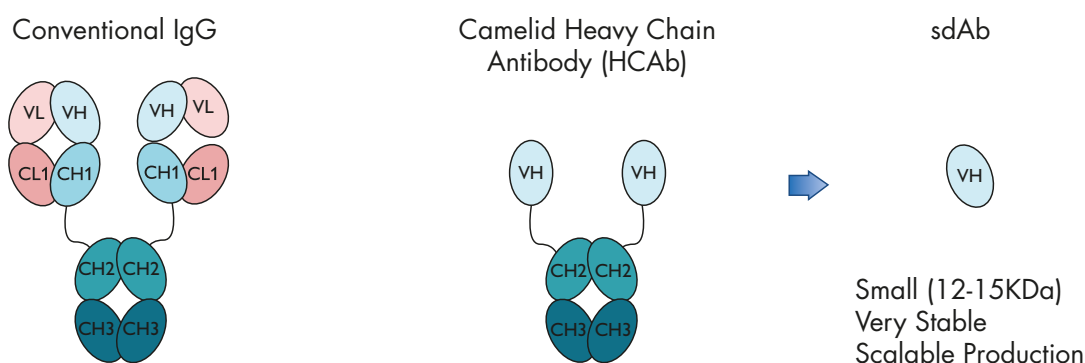
To meet your precise requirements, Randox Biosciences offer customised antibody generation services to the pharmaceutical and biotechnology industry. Our custom development service, which encompasses antibodies and human recombinant proteins has achieved tremendous success within the biopharmaceutical and diagnostic industries. Key components of our custom service are our range of monoclonal antibodies as well as our recombinant antibody fragments (sdAbs, scFvs, fAbs).

Our customisation service has proven incredibly successful in the research and development industries allowing access our expertise to obtain the antibody and protein most relevant to your line of work. With over 300 highly trained research scientists and over 30 years' experience in commercial assay development, Randox Biosciences can also provide a tailor made assay development service to meet your specifications in both a timely and cost-effective manner.

Single Domain Antibody Fragments (sdAb)

Our scientists highly recommend the use of Single Domain Antibody Fragments (sdAb) as they are more stable, adaptable and easily humanised, making them ideal for therapeutic products. We have a specialised offering of sdAbs for research and therapeutic applications. SdAbs provide a new mechanism for the generation of antibody therapeutics and offer numerous advantages such as better tissue penetration, ease of expression, stability and uniformity of product. SdAbs also have benefits in traditional diagnostic settings, due to their small size, a much higher coating concentration can be achieved for assay development.

Although we have been using our single domain antibodies in the diagnostics industry, they have been used increasingly as immunotherapies and Antibody Drug Conjugates. They have certain attributes that make them ideal for targeted therapies, for example, their small size allows better tissue penetration and their extended CDR3 loops mean they are particularly adept at accessing concave epitopes.



Ordering online

Further information available at randox-lifesciences.com - order online or e-mail us at: info@randoxbiosciences.com



RANDOX

CLINICAL LABORATORY SERVICES

*Providing Tailored Testing Solutions
and quality results for the requirements of
research and clinical projects globally*

Randox Clinical Laboratory Services (RCLS) are dedicated to providing a central laboratory service designed to meet the time sensitive, bespoke requirements of research and clinical projects globally.

Specialising in biomarker and multiplex testing in addition to standard safety and clinical testing, RCLS provides a full laboratory service to accelerate your project to completion. Our new state of the art Science Park facility hosts a variety of the latest technology and platforms including our high performing RX and Evidence series analysers to generate precise and accurate data results, delivered quickly and securely through our 21- CFR part 11 compliant in-house IT system.

Our experienced project management teams are available to provide support and guidance from initial biomarker selection through to the design of a comprehensive results data package to deliver against your project aims and timelines.

RCLS's flexibility through our custom in-house development service and extensive range of off the shelf products enables our clients to meet challenging projects with tailored, cost effective and rapid solutions. Our patented and globally recognised Biochip Array Technology (BAT), provides testing solutions in an accurate and precise format, fully customised to your requirements supported by our vast expertise in in-house antibody development.



Rapid Turnaround



- Randox in-house production of materials facilitates RCLS to offer rapid turnaround times, enabling time sensitive projects to be met.
- Project managers ensure progress is constant to meet deadlines.
- Our Biochip Array Technology and range of high throughput analysers enable us to achieve attractive timeframes for data production.

Cost Effective



- Through our ability to develop products in-house, optimising batches and sample use, we provide a high quality service with a minimum cost and wastage.
- Our Biochip Array Technology offers a cost effective solution for multiplex testing.
- Utilising the in-house logistics team, we minimise outsourcing sample shipment costs for our customers.

Flexibility



- Our project management team are fully flexible around time frames, testing methods and platforms to ensure the unique requirements of each project are met.
- We tailor data in a format suitable for each individual customer project to ensure the format is effective and aligned to the project objectives.
- Our custom assay development service enables us to design testing solutions specific to a particular project.

Experienced



- Randox hold a globally renowned reputation for producing quality IVD products for over 35 years and our tests and materials are currently being used by the Pharma and Biomedical industry.
- Our laboratory team are highly experienced in conducting successful testing projects for pharma and CRO customers globally.
- Our sales team are experienced in advising on biomarker selection, antibody development and CDx projects, supporting customers through each step of the process.

High Quality



- Randox QC materials host a reputation for reliability and quality and ensure our results are accurate and traceable.
- Our extensive range of testing platforms available, including our Evidence and RX series, ensure data quality is robust through high levels of precision and accuracy and minimal run-fails.
- RCLS, based at our new dedicated Science Park, is an accredited lab with a schedule of future audits in place.
- We understand the quality of our results are key to our customers and with this in mind our service is designed around our robust IT system ensuring data can be transferred quickly and securely across the globe.

Clinical Chemistry

Enrich your research with the highest quality range of routine and novel reagents

Reagents

Extensive test menu

We supply one of the largest reagent test menus offered by any clinical diagnostics company encompassing routine and esoteric clinical chemistry, immunoassay and safety testing.

Our impressive product portfolio covers over 100 disease markers. In addition to a wide range of routine chemistries, we provide reagents for specific proteins, lipids, therapeutic drugs, drugs of abuse, antioxidants, coagulation, diabetes, food & wine and veterinary parameters.

This portfolio is continually expanding to offer you an increased choice of high-quality cost-effective reagents.

Unique tests

We are a primary manufacturer of a comprehensive range of high performance and unique tests which can benefit you at every stage of your equally unique pre-clinical research and clinical development projects.

Dedicated and non-dedicated reagents

We provide dedicated reagents for the Randox RX Series, Dimension™, Hitachi™, AU™, Architect C™ and Aeroset™ range of chemistry analysers providing you with freedom of choice from an independent manufacturer. We also provide over 13,000 instrument specific applications enabling the use of Randox reagents on over 195 clinical chemistry analyser platforms.

Highest quality

Our reagents are of the highest quality producing accurate and precise results. This is recognised through official accreditation to both national and international standards including UKAS, ISO 13485:2003, and SFDA.



RX series of clinical chemistry analysers

The RX series provides performance like no other. Robust hardware combined with intuitive software ensures unrivalled precision and accuracy for results you can trust. Delivering high quality routine and specialised testing through the most comprehensive dedicated test menu on the market, the RX series of clinical chemistry analysers guarantees flexibility, cost savings and consolidation. The RX series is capable of catering for a variety of laboratory settings, from low to mid-volume testing through to 1 million tests per year.



rx misano

The RX misano has been developed with the user in mind by incorporating a responsive touch-screen display. The sleek ergonomic design boasts intuitive user-friendly software allowing test menu personalisation for ease of use. The RX misano provides exciting opportunities for consolidation of routine & specialised testing and is perfectly suited to a variety of laboratory types as a primary or a backup analyser.



rx monaco

Capable of carrying out 170 tests per hour, the RX monaco guarantees unrivalled performance, providing cost-effective, high quality testing for small to mid-volume laboratories. This fully automated analyser can be easily integrated into any laboratory setting with the option of a floor standing unit if benchtop space is limited.



rx daytona+

The RX daytona+ is a fully automated, random access, bench top clinical chemistry analyser capable of performing routine and specialised testing as well as emergency STAT sampling. With a throughput of 450 tests per hour including ISE, the RX daytona+ offers a high performance, fully automated solution to mid-volume clinical chemistry testing. With intuitive icon-based software, the RX daytona+ is the only analyser in its class with a sample clot detection sensor ensuring efficiency, precision and accuracy.



rx imola

The RX imola combines superior quality, intuitive software and minimal maintenance for increased productivity and reduced downtime for rapid comprehensive testing. This compact, fully automated benchtop analyser is capable of handling the workload of a medium to high throughput laboratory, with a throughput of 560 tests per hour including ISE.



rx modena

Capable of running up to 1,200 tests per hour, with unique HbA1c testing abilities, the RX modena consolidates all your assay requirements onto one intuitive platform. This high throughput analyser has a continuous loading hatch allowing emergency samples to be analysed quickly and easily mid-run. The RX modena boasts icon based, interactive touch-screen technology adding a modern flair to your laboratory.

RX Test Menu

CLINICAL

Autoimmune

Complement Component 3
Complement Component 4
CRP
CRP Full Range (0.3-160mg/l)
CRP High Sensitivity
IgA
IgE
IgG
IgM
Rheumatoid Factor

Basic Metabolic Profile

Calcium
CO₂ Total
Chloride (Direct & Non-direct)
Creatinine (Enzymatic)
Creatinine (Jaffe)
Glucose (GOD - PAP)
Glucose (Hexokinase)
Potassium
Sodium
Urea

Bone Profile

Alkaline phosphatase (ALP)
Alkaline phosphatase (DEA)
Calcium
Phosphorus (inorganic)
Total Protein

Cardiac

Cholesterol
CK-MB
CK-NAC
CRP
CRP Full Range (0.3-160mg/l)
CRP High Sensitivity
Digoxin
Direct HDL Cholesterol
Direct LDL Cholesterol
H-FABP
Homocysteine
Lipoprotein (a)
Myoglobin
sLDL
Triglycerides
TxB Cardio

Comprehensive Metabolic Profile

Albumin
Alkaline phosphatase (AMP)
Alkaline phosphatase (DEA)

ALT
AST (GOT)
Direct Bilirubin
Calcium
Chloride (Direct & Non-direct)
CO₂ Total
Creatinine (Enzymatic)
Creatinine (Jaffe)
Glucose (GOD - PAP)
Glucose (Hexokinase)
Lactate
Potassium (Direct & Non-direct)
Sodium (Direct & Non-direct)
Total Bilirubin
Total Protein
Urea

Diabetes

Adiponectin
Cholesterol
Creatinine (Enzymatic)
Creatinine (Jaffe)
Cystatin C
D-3 Hydroxybutyrate (Ranbut)
Direct HDL Cholesterol
Direct LDL Cholesterol
Fructosamine
Glucose (GOD - PAP)
Glucose (Hexokinase)
Glycerol
HbA1c/Hb
Microalbumin
NEFA (Non-Esterified Fatty Acids)
Total Protein
Triglycerides
Urinary Protein

Electrolytes

Calcium
Chloride (Non-direct)
CO₂ Total
Lithium
Magnesium
Potassium (Non-direct)
Sodium (Non-direct)

Haemolytic Anaemia

G-6-P-DH
Haptoglobin
LDH

Hepatic Function

Albumin
Aldolase

Alkaline phosphatase (AMP)
Alkaline phosphatase (DEA)
Alpha-1 Antitrypsin
ALT (GPT)
Ammonia
AST (GOT)
Bile Acids
Cholinesterase (Butyryl)
Complement Component 3
Complement Component 4
Direct Bilirubin
Gamma GT
GLDH
Glycerol
Haptoglobin
IgA
IgG
IgM
Iron (UIBC)
LDH
Leucine Arylamidase (LAP)
Total Bilirubin
Total Protein
Transferrin
Transthyretin (Prealbumin)

Inflammation and Infection

Alpha-1 Acid Glycoprotein
ASO
CRP
Lactate
Rheumatoid Factor

Lipids

Apolipoprotein A-I
Apolipoprotein A-II
Apolipoprotein B
Apolipoprotein C-II
Apolipoprotein C-III
Apolipoprotein E
Cholesterol
Direct HDL Cholesterol
Direct LDL Cholesterol
Lipoprotein (a)
sLDL
Triglycerides

Neonatal Screening

Alpha-1 Antitrypsin
CRP
CRP Full Range (0.3-160mg/l)
CRP High Sensitivity
IgE
Transthyretin (Prealbumin)

Neurological Disorders (CSF)

IgA
IgG
IgM

Nutritional Status

Albumin
Copper
Ferritin
Iron
Iron (UIBC)
Lipase
Magnesium
Potassium (Direct & Non-direct)
TIBC
Transferrin
Transthyretin (Prealbumin)
Zinc

Pancreatic Function

Amylase
Glucose (GOD - PAP)
Glucose (Hexokinase)
LDH
Lipase
Pancreatic Amylase

Renal Function

Albumin
Ammonia
Beta-2 Microglobulin
Calcium
Chloride (Direct & Non-direct)
Creatinine (Enzymatic)
Creatinine (Jaffe)
Cystatin C
Glucose (GOD - PAP)
Glucose (Hexokinase)
HbA1c/Hb
IgG
LDH
Magnesium
Microalbumin
Potassium
Phosphorus (Inorganic)
Sodium (Direct & Non-direct)
Urinary Protein
Urea
Uric Acid

RX Test Menu

PROTEINS

Specific Proteins

Alpha-1 Antitrypsin
 Alpha-1 Acid Glycoprotein
 Apolipoprotein A-I
 Apolipoprotein A-II
 Apolipoprotein B
 Apolipoprotein C-II
 Apolipoprotein C-III
 Apolipoprotein E
 ASO
 Beta-2 Microglobulin
 Ceruloplasmin
 Complement Component 3
 Complement Component 4
 CRP
 CRP Full Range (0.3-160mg/l)

CRP High Sensitivity
 Cystatin C
 Ferritin
 Fructosamine
 Haptoglobin
 HbA1c/Hb
 IgA
 IgE
 IgG
 IgM
 Lipoprotein (a)
 Microalbumin
 Myoglobin
 Rheumatoid Factor
 Transthyretin (Prealbumin)
 Transferrin

RESEARCH

Antioxidants

Albumin
 Bilirubin
 Ferritin
 Glutathione Reductase
 Ransel (Glutathione Peroxidase)
 Ransod (Superoxide Dismutase)
 TIBC
 Total Antioxidant Status
 Transferrin
 Uric Acid

Food and Wine Testing

Acetic Acid
 Ammonia
 Copper
 Ethanol
 Free Sulphite (FSO₂)
 Glucose/Fructose
 Lactic Acid
 Malic Acid
 Potassium
 Primary Amino Nitrogen
 Total Antioxidant Status
 Total Sulphite (Total SO₂)

Biotechnology

Glutamate
 Glutamine

Speciality

Acid Phosphatase

TOXICOLOGY

Therapeutic Drugs

Acetaminophen
 Carbamazepine
 Digoxin
 Gentamicin
 Lithium
 Phenobarbital
 Phenytoin
 Salicylate
 Theophylline
 Valproic Acid

Drugs of Abuse

Amphetamines
 Barbiturates
 Benzodiazepines
 Cannabinoids
 Cocaine metabolite
 Ecstasy
 EDDP
 Ethanol
 Methadone
 Opiates

VETERINARY

Albumin
 Alkaline phosphatase (AMP)
 Alkaline phosphatase (DEA)
 ALT (GPT)
 Aldolase
 Ammonia
 Amylase
 AST (GOT)
 Bile acids
 Bilirubin (Total & Direct)
 Calcium
 Chloride (Direct & Non-direct)
 Cholesterol
 Cholinesterase (Butyryl)
 CK-NAC
 CO₂ Total
 Copper
 Creatinine (Enzymatic)
 Creatinine (Jaffe)
 CRP (Canine)
 D-3 Hydroxybutyrate (Ranbut)
 Fructosamine
 Gamma-GT
 GLDH
 Glucose (GOD - PAP)

Glucose (Hexokinase)
 Glycerol
 HDL
 Iron (UIBC)
 Lactate
 Lactate dehydrogenase
 LDL
 Lipase
 Magnesium
 NEFA (Non-esterified fatty acids)
 Phosphorus (Inorganic)
 Potassium
 Ransel (Glutathione peroxidase)
 Ransod (Superoxide dismutase)
 Sodium
 Total Protein
 Triglycerides
 Urea
 Uric Acid
 Urinary protein
 Zinc



Quality Management Solutions

Validate your clinical research with Randox Quality Control Solutions

ACUSERA © *Internal Quality Controls*

Randox Biosciences is one of the largest manufacturers of Quality Controls in the world. This includes our own brand Acusera portfolio of controls and calibrators, and customised material for laboratories, research organisations, EQA/Proficiency Testing (PT) schemes and other diagnostic manufacturers.

With over 390 parameters in our Acusera range, choice and flexibility is guaranteed. Principle control products include:

- Clinical Chemistry
- Immunoassay
- Immunology
- Proteins
- Lipids
- Cardiac
- CSF
- Toxicology
- Urine Chemistry
- Urinalysis
- Coagulation
- Haematology
- Blood Gas
- Tumour Markers
- Maternal Screening
- Antioxidants
- Diabetes
- Therapeutic Drug Monitoring

Speciality/Research

Single analyte and multiplex custom quality controls are available, tailored to your research or clinical trial project requirements. Analytes include cytokines, chemokines, growth factors and trace elements.

ACUSERA 24•7

An Effective Tool for Evaluating Laboratory Performance

Acusera 24•7 is an interlaboratory data management package, primarily designed to complement the Acusera range of true third party controls. An effective IQC and peer group reporting program like Acusera 24•7 will help to improve your laboratory's analytical performance, meet regulatory requirements and most importantly, ensure accurate results.

The software has two complementary functions; the internal function of the software is designed to help laboratories manage and interpret their daily QC data while the peer group function of the software allows comparison to worldwide peer group statistics, enabling rapid and effective troubleshooting.

Customised Quality Control Sera



Randox Customised Quality Controls – bespoke solutions for your clinical research

Randox Biosciences is the leading provider of customised quality control materials. We supply bespoke QC solutions to leading CRO's, pharma companies, reference laboratories and EQA/PT schemes all over the world.

Customising control materials can involve selecting analytes, analyte concentration, vial size or kit format ensuring a precise QC solution tailored to your clinical requirement.

Global harmonisation

Randox can manufacture custom QC lots and ship globally ensuring identical QC sera is run across your global laboratory operations (ideal for laboratory networks supporting clinical trials)

Consolidation

Randox will significantly consolidate your existing controls. An average laboratory may rationalise from 7 sera to a single control product

Tailor made

Specify the analytes and levels you require. We can provide the levels tailored to your cut off values

Stability

Randox sera are stable for up to 4 years, enabling use of the same lot over an extended period

Options

Customised controls in different matrices, e.g. serum, urine, aqueous

Choice

3 different formats – lyophilised, liquid, liquid frozen

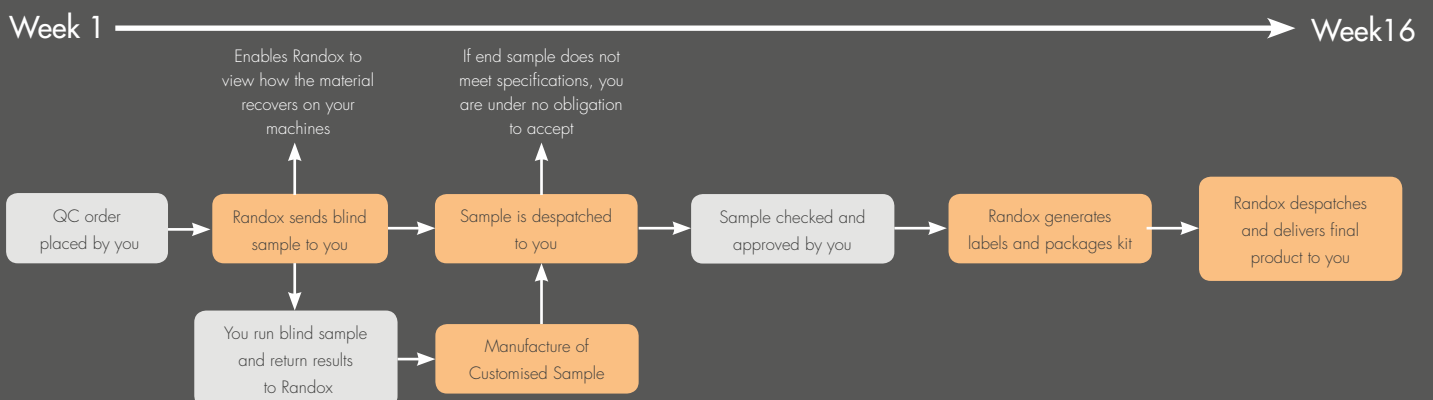
Flexibility

Batch sizes manufactured between 50–250,000 vials. Randox can provide a wide range of vial sizes from 1ml to 10ml

Quality

High quality specification, fully compliant with ISO 13485

Custom Control Timeline



Available Analytes for Customised QC

Antioxidant

Glutathione Peroxidase
Glutathione Reductase
Superoxide Dismutase
Total Antioxidant Status

Blood Gas

Bicarbonates
Calcium
Chloride
Glucose
Lactate
pCO₂
pH
pO₂
Potassium
Sodium

Cardiac

BNP
Carbonic Anhydrase III (CAIII)
CK (Total)
CK-MB (Activity)
CK-MB Mass
D-Dimer
Digoxin
Hearttype Fatty AcidBinding Protein (HFABP)
Glycogen Phosphorylase BB (GPBB)
hs-CRP
High Sensitivity Troponin T
Homocysteine
Myoglobin
NT-ProBNP
Troponin I
Troponin T

Cellular Adhesion Molecules

E-Selectin
ICAM-1
L-Selectin
P-Selectin
VCAM-1

Cerebral

BDNF
GFAP
IL-6
NSE
NGAL
sTNFR1
Thrombomodulin

Coagulation

Activated Partial Thromboplastin Time (aPTT)
Anti-Thrombin III
Factor II
Factor V
Factor VII
Factor VIII
Factor IX
Factor X
Factor XI
Factor XII
Fibrinogen
Plasminogen
Protein C
Protein S
Prothrombin Time (PT)
Thrombin Time (TT)

Cerebrospinal Fluid (CFS)

Albumin
α-1-Globulin
α-2-Globulin
β-Globulin
Chloride
γ-Globulin
Glucose
IgG
Lactate
Protein
Sodium

Cytokine & Growth Factors

Epidermal Growth Factor (EGF)
Granulocyte Macrophage Colony-Stimulating Factor (GM-CSF)
Intercellular Adhesion Molecule 1 (ICAM-1)
Interferon-gamma (IFN-γ)
Interleukin-1 alpha (IL-1 α)
Interleukin-1 beta (IL-1 β)
Interleukin-2 (IL-2)
Soluble Interleukin-2 Receptor Alpha (SIL-2Ra)
Interleukin-3 (IL-3)
Interleukin-5 (IL-5)
Soluble Interleukin-6 Soluble Receptor (SIL-6SR)
Interleukin-4 (IL-4)
Interleukin-6 (IL-6)
Interleukin-7 (IL-7)
Interleukin-7D (IL-7D)
Interleukin-8 (IL-8)
Interleukin-10 (IL-10)
Interleukin-12p (IL-12p)
Interleukin-13 (IL-13)
Interleukin-15 (IL-15)
Interleukin-23 (IL-23)
Macrophage Inflammatory Protein-1 Alpha (MIP-1 α)
Matrix Metalloproteinase 9 (MMP-9)
Monocyte Chemotactic Protein-1 (MCP-1)
Soluble Tumour Necrosis Factor Receptor-1 (sTNFR1)
Soluble Tumour Necrosis Factor Receptor-2 (sTNFR2)
Tumour Necrosis Factor - alpha (TNF - α)
Tumour Necrosis Factor - beta (TNF - β)
Vascular Endothelial Growth Factor (VEGF)

Drugs (Therapeutic)

Acetaminophen (Paracetamol)
Amikacin
Caffeine
Carbamazepine
Cyclosporine
Digoxin
Ethosuximide
Gentamicin
Lithium
Methotrexate
Phenobarbital
Phenytoin
Primidone
Salicylate
Theophylline
Tobramycin
Valproic Acid
Vancomycin

Drugs of Abuse

7-aminoflunitrazepam
Amphetamine
Bath Salts 1+2
Benzylpiperazines
Barbiturates
Benzodiazepine
Benzoyllecgonine
Buprenorphine
Cannabinoids
Chloral Hydrate Metabolite
Cocaine Metabolite
Dextromethorphan
Ecstasy
EDDP
Ethyl Glucuronide
Ethanol
Escitalopram
Fentanyl
Fluoxetine
Generic Opioids
Haloperidol
Ibuprofen
Ketamine
LSD
Mescaline
Meprobamate
Meperidine
Methadone
Methamphetamine
Methaqualone
Methylphenidate
Morphine
MDMA
Opiates
Oxazepam
Oxycodone I
Oxycodone II
Phencyclidine
Phenobarbital
Phenylpiperazines
Propoxyphene
Salicylate
Salicylic Acid
Salvinorin
Secobarbital
Setraline
Synthetic Cannabinoids
Tetra Hydro Cannabinol (THC)
Tricyclic Antidepressants
Tramadol
Trazodone
Zaleplon
Zolpidem
Zopiclone

Endocrine

Andiponectin
Cortisol
GLP-1
Insulin
Leptin

Haematology

CBC & Differential
Non standard parameters:

- Immature Granulocytes (IG)
- Immature Platelet Fraction (IPF)
- Nucleated Red Blood Cells (NRBC)

Haemoglobin fractions:
 • Hb total, HbA2, HbF
 • Variants

Immunoassay

17-OH – Progesterone
 ACTH
 AFP
 Aldosterone
 Amikacin
 Androstendione
 β-2-Microglobulin
 CEA
 CA 125
 CA 15-3
 CA 19-9
 CA 72-4
 Calcitonin
 Carbamazepine
 C-Peptides
 Cyfra 21-1
 Cortisol
 C-Peptide
 DHEA-Sulphate
 Digoxin
 Estriol
 Estriol (unconjugated)
 Ethosuximide
 Ferritin
 Folate
 FSH
 Gastrin
 Gentamicin
 Growth Hormone
 hCG
 Free β hCG
 IgE
 IGF-1
 Inhibin A
 Insulin
 LH
 Neuron Specific Enolase
 Osteocalcin
 Oestradiol
 Paracetamol
 PAPP- A
 Phenobarbital
 Phenytoin
 Primidone
 Procalcitonin
 Progesterone
 Prolactin
 PSA (Free)
 PSA (Total)
 PTH
 Renin
 Salicylate
 SHBG
 TBG
 T Uptake
 T₃ (Free)
 T₃ (Total)
 T₄ (Free)
 T₄ (Total)
 Testosterone
 Testosterone (Free)
 Theophylline
 Thyroglobulin
 Anti-TG
 Anti-TPO
 Tobramycin
 TSH
 Vanomycin
 Valproic Acid
 Vitamin B₁₂

1-25-(OH)₂-Vitamin D
 25-OH-Vitamin D

Lipids

Apolipoprotein A-I
 Apolipoprotein A-II
 Apolipoprotein B
 Apolipoprotein C-II
 Apolipoprotein C-III
 Apolipoprotein E
 Cholesterol (Total)
 Cholesterol (HDL)
 Cholesterol (LDL)
 Lipoprotein (a)
 Triglycerides
 sLDL

Metabolic Syndrome & Diabetes

Adiponectin
 C-Peptide
 Dehydrogenase (G-6-PDH)
 Ferritin
 Fructosamine
 GLP-1
 HbA1c
 Iron
 Insulin
 Leptin
 Plasminogen Activator Inhibitor-1
 Resistin
 Transferrin

Proteins

AFP
 Albumin
 α-1-Acid Glycoprotein (AAG)
 α-1-Antitrypsin (AAT)
 α-2-Macroglobulin
 Antistreptolysin O
 Anti-thrombin III
 β-2-Microglobulin
 Ceruloplasmin
 Complement C₃
 Complement C₄
 CRP
 Cystatin C
 Ferritin
 Haptoglobin
 IgA
 IgE
 IgG
 IgM
 Kappa Light Chain
 Kappa Light Chain (Free)
 Lambda Light Chain
 Lambda Light Chain (Free)
 Prealbumin
 Protein (Total)
 RBP (Retinol Binding Protein)
 Rheumatoid Factor
 Transferrin

Routine Chemistry

Albumin
 α-1-globulin
 α-2-globulin
 β-1-globulin
 Acid Phosphatase (Prostatic)
 Acid Phosphatase (Total)
 Albumin
 ALP
 ALT (GPT)
 Amylase
 Amylase (Pancreatic)

AST (GOT)
 Bicarbonate
 Bile Acids
 Bilirubin (Direct)
 Bilirubin (Total)
 Cholinesterase
 Calcium
 Calcium (Ionised)
 Chloride
 Copper
 Creatinine
 CRP
 Cystatin C
 γGT
 γ-Globulin
 Glucose
 GLDH
 α-HBDH
 D-3-Hydroxybutyrate
 Iron
 LAP
 LD (LDH)
 Lipase
 Lactate
 Magnesium
 Osmolality
 Phosphate (Inorganic)
 Potassium
 Sodium
 TIBC
 Urea
 Uric Acid (Urate)
 Zinc

Urinalysis

Albumin
 Bilirubin
 Blood
 Glucose
 Ketones
 Leukocytes
 Microalbumin
 Nitrite
 Urobilinogen

Urine

Amylase
 Calcium
 Chloride
 Copper
 Cortisol
 Creatinine
 Dopamine
 Epinephrine
 Glucose
 5-HIAA
 hCG
 Magnesium
 Metanephrine
 Microalbumin
 Norepinephrine
 Normetanephrine
 Osmolality
 Oxalate
 pH
 Phosphorous
 Potassium
 Total Protein
 Sodium
 Specific Gravity
 Urea
 Uric Acid
 VMA (Vanillylmandelic Acid)



External Quality Assessment

*RIQAS - The largest
international EQA/PT
scheme in the world*

Randox International Quality Assessment Scheme (RIQAS) is used by more than **31,000** laboratory participants in **115** countries worldwide and offers **24** comprehensive programmes with a wide range of options and parameters.

RIQAS provides an independent means of assessing the analytical performance of a laboratory compared to other laboratories using the same methods and instruments.

Developing inter-laboratory comparability maintains and improves analytical quality so raising the standard of clinical testing.

RIQAS features and benefits

- Custom manufactured from human samples to mirror performance of patient samples
- Programmes accepted by national and international accreditation bodies worldwide
- High level of participants increases statistical validity
- Wide range of parameters covers a broad spectrum of testing
- Regular reports with rapid turnaround
- Time saving user-friendly, easy to read reports
- Reduced parameter options for selected programmes offers flexibility
- Certificates provide proof of participation in a reputable EQA/PT scheme
- Multi-instrument reports permit assessment of all laboratory systems
- Reference method values provided in the Clinical Chemistry programme

RIQAS Accreditation

RIQAS provides Certificates as proof of EQA participation and performance for laboratory accreditation purposes.

RIQAS is a UKAS accredited Proficiency Testing Provider, No. 0010, and is accredited to ISO/IEC 17043:2010, 'Conformity Assessment- General Requirements for Proficiency Testing'.

Accreditation to ISO/IEC 17043:2010 highlights the superior quality and excellence of RIQAS.

Available Programmes

AMMONIA/ETHANOL PROGRAMME+

Cat no: RQ9164

2 Parameters

BLOOD GAS PROGRAMME*

Cat no: RQ9134

First registered instrument

10 Parameters

Cat no: RQ9134/A

Subsequent instruments

10 Parameters

BNP PROGRAMME+

Cat no: RQ9165

1 Parameter (BNP alone)

Cat no: RQ9165

Order with RQ9136/a when BNP and Liquid Cardiac parameters are required

CARDIAC PROGRAMME*

Cat no: RQ9127/a

2 Parameters only (choose from 7)

Cat no: RQ9127/b

Full 7 Parameters

COAGULATION PROGRAMME*

Cat no: RQ9135/a

5 Selected Parameters only

Cat no: RQ9135/b

Full 17 Parameters (aPTT, PT, TT, Fibrinogen, Antithrombin III)

ESR PROGRAMME+

Cat no: RQ9163

1 Parameter

GENERAL CLINICAL CHEMISTRY PROGRAMMES*

Cat no: RQ9112

10 Parameters only

Cat no: RQ9113

Full 50 Parameters

Cat no: RQ9112/S

17 Parameters only

GLYCATED HAEMOGLOBIN PROGRAMME (HbA1c)*

Cat no: RQ9129

2 Parameters

HAEMATOLOGY PROGRAMME*

Cat no: RQ9118

11 Parameters

HUMAN URINE PROGRAMME*

Cat no: RQ9115

25 Parameters

IMMUNOASSAY PROGRAMMES*

Cat no: RQ9125/a

4 Parameters only (choose from 55)

Cat no: RQ9125/c

Full 55 Parameters

Cat no: RQ9125/b

13 Parameters only (choose from 55)

Cat no: RQ9130

Full 55 Parameters

IMMUNOASSAY SPECIALITY 1 PROGRAMME+

Cat no: RQ9141

10 Parameters

IMMUNOASSAY SPECIALITY 2 PROGRAMME+

Cat no: RQ9142

5 Parameters

LIPID PROGRAMME*

Cat no: RQ9126/a

3 Parameters only (choose from 7)

Cat no: RQ9126/b

Full 7 Parameters

LIQUID CARDIAC PROGRAMME*

Cat no: RQ9136

9 Parameters only

Cat no: RQ9136/a

Order with RQ9165/a when BNP and Liquid Cardiac parameters are required

MATERNAL SCREENING PROGRAMME*

Cat no: RQ9137

6 Parameters

SEROLOGY (EBV) PROGRAMME+

Cat no: RQ9153

3 Parameters

SEROLOGY (HIV-HEPATITIS) PROGRAMME+

Cat no: RQ9151

10 Parameters

SEROLOGY (SYPHILIS) PROGRAMME+

Cat no: RQ9154

1 Parameter

SEROLOGY (TORCH) PROGRAMME+

Cat no: RQ9152

12 Parameters

SPECIFIC PROTEINS PROGRAMME*

Cat no: RQ9114 (3ml) Cat no: RQ9160 (2ml) Cat no: RQ9161 (1ml)

26 Parameters

THERAPEUTIC DRUGS PROGRAMME*

Cat no: RQ9111

18 Parameters

URINALYSIS PROGRAMME+

Cat no: RQ9138

14 Parameters

URINE TOXICOLOGY PROGRAMME+

Cat no: RQ9139

20 Parameters

* = with target scoring + = awaiting accreditation to ISO/IEC 17043



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