### **RX DAYTONA+**

A FULLY AUTOMATED CLINICAL CHEMISTRY ANALYSER WITH A COMBINED THROUGHPUT OF 450 TESTS PER HOUR





## >> HIGH QUALITY TESTING ON A COMPACT EASY TO USE CLINICAL CHEMISTRY ANALYSER FOR ACCURATE RESULTS YOU CAN TRUST



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### >> BENEFITS

The RX daytona+ is a **bench-top**, fully automated, random access clinical chemistry analyser capable of performing **routine & specialised** testing and emergency **STAT** sampling. The most **versatile** analyser in its class, the RX daytona+ combines robust hardware and intuitive software with the world leading RX series test menu for unrivalled performance. The RX daytona+ is capable of 270 photometric tests per hour and up to 450 including ISE.













# TEST MENU & CONSOLIDATION

Expand your testing capabilities on one efficient platform

Extensive dedicated test menu, including: routine chemistries, lipids, antioxidants, cardiac, diabetes testing plus therapeutic drugs and drugs of abuse allows laboratories to expand their testing capabilities and bring more testing in-house reducing additional costs of sending tests out.

Direct, on-board, HbA1c testing capabilities provide many time saving benefits in the laboratory. As there is no incubation step required HbA1c tests can be performed immediately, performing QC and Calibration checks is quicker as only one assay is being tested, and offline calculations are not needed enabling faster recovery times.

### ACCURATE RESULTS

Achieve accurate patient results first time, every time

Separate sample and reagent pipettes minimise carryover. Dedicated micropipettes are equipped with liquid level sensors and crash detection.

Dual five speed stirrers provide optimised mixing for each assay. Serum indices detect lipaemic, icteric and haemolytic samples.

High quality results save operator
time avoiding unnecessary additional costs
of repeat testing reducing the possibility
of patient misdiagnosis.

### UNRIVALLED PERFORMANCE

Reliability ensures no interruption to workflow

Sensitive clot detection sensor
detects clots such as fibrin at the sample
pipette. On-board cuvette checking
function ensures only clean and viable
reaction vessels are used.

Built in **inventory management** system automatically calculates remaining reagent volume and the number of tests available.

Superior performance means minimal downtime and swift reporting of results.









#### QUALITY CONTROL

Developed to improve confidence in your results

Generation of Levey-Jennings charts, calibration curves and QC statistics for reliable results.

Users can view QC history.

There are **7 different calibration options** available including; Factor, Linear,
Point to point, Log-logit, Exponential,
Spline and Spline 2.

Unrivalled QC capabilities

puts **patient safety** at the centre

of your laboratory.



Increased functionality maximises testing capabilities

12 wavelengths generated via diffraction grating (340-800nm) ensuring a multitude of chemistries are possible on one system.

Just one click opens the emergency sample ordering screen for rapid STAT testing.

**Barcode** readers for both sample and reagent identification plus icon based software for **ease of use**.

#### COST SAVINGS

Smart technology designed to avoid additional costs

Minimal maintenance required, just **2 preventative maintenance** services per year means less down time.

Extensive test menu allows consolidation of testing, the ability to run specific proteins removes the need for a separate nephelometry system.

Economic platform with low water consumption of only 5 litres per hour.



### >> SYSTEM OVERVIEW



#### **REAGENT CAROUSEL**

50 reagent positions for 70ml & 20ml bottles, all cooled between 8-15°C. Automatic barcode identification ensures smooth recognition of reagents. Dedicated reagents are available from Randox.



#### **CUVETTES**

72 semi-permanent reaction cuvettes lasting for 3-6 months. On-board cuvette checking function ensures only clean and viable reaction vessels are used.



#### WASH STATION

A thorough 12 stage washing process with acid, alkali and pure water wash steps. Liquid level sensors at stations 1-5 prevent cuvette overflows.



#### SAMPLE CAROUSEL

50 positions are contained within the universal carousel, including 10 bespoke positions for calibrators and controls. The emergency loading port allows for the processing of STAT samples. Barcode sample identification ensures accurate matching of patient identification to specimen. Low sample volumes (1.5-35  $\mu$ l) enable easy testing of paediatric and veterinary patients.



#### MIXING SYSTEM

Equipped with dual 5 speed stirrers, operators can choose the correct mixing speed depending upon the viscosity of the reagent, therefore optimising the mixing of each assay to ensure best performance.

### >> THE RX SERIES TEST MENU

#### CLINICAL

**AUTOIMMUNE:** 

Complement Component 3
Complement Component 4

CRP

CRP Full Range (0.3-160mg/l)

CRP High Sensitivity

lgA lgE lgG lgM

Rheumatoid Factor

**BASIC METABOLIC PROFILE:** 

Calcium

CO<sub>2</sub> Total

Chloride

Creatinine

Glucose

Potassium

Sodium

Urea

**BONE PROFILE:** 

Alkaline Phosphatase

Calcium Phosphorus Total Protein

CARDIAC:

Adiponectin Cholesterol CK-MB CK-NAC CRP

CRP Full Range (0.3-160mg/l)

CRP High Sensitivity

Digoxin

Direct HDL Cholesterol

Direct LDL Cholesterol

HDL3 H-FABP Homocysteine Lipoprotein (a) Myoglobin sLDL Triglycerides TxB Cardio

COMPREHENSIVE METABOLIC PROFILE:

Albumin

Alkaline Phosphatase

ALT

AST (GOT)

Direct Bilirubin
Calcium
Chloride
CO<sub>2</sub> Total
Creatinine
Glucose
Lactate

Sodium
Total Bilirubin
Total Protein

Potassium

Urea

**DIABETES:** 

Adiponectin Cholesterol Creatinine Cystatin C

Direct HDL Cholesterol
Direct LDL Cholesterol

Fructosamine Glucose Glycerol HbA1c/Hb Microalbumin

NEFA (Non-Esterified Fatty Acids)

Ranbut (Hydroxybutyrate)

Total Protein Triglycerides Urinary Protein

**ELECTROLYTES:** 

Calcium

Chloride (Nondirect)

CO<sub>2</sub> Total Lithium Magnesium

Potassium (Nondirect) Sodium (Nondirect)

HAEMOLYTIC ANAEMIA:

G-6-PDH Haptoglobin LDH

HEPATIC FUNCTION:

Albumin Aldolase

Alkaline Phosphatase Alpha-I Antitrypsin

ALT Ammonia AST (GOT)

Bile Acids Cholinesterase

Complement Component 3

Complement Component 4

Direct Bilirubin Gamma GT GLDH Glycerol Haptoglobin

lgA lgG lgM

Iron (UIBC)

LAP LDH

Total Bilirubin

Total Protein Transferrin

Transthyretin (Prealbumin)

INFLAMMATION AND

INFECTION:

Alpha- I Acid Glycoprotein

ASO CRP Lactate

Rheumatoid Factor

LIPIDS:

Apolipoprotein A-I Apolipoprotein AII Apolipoprotein B

Apolipoprotein CII Apolipoprotein CIII

Apolipoprotein E Cholesterol

Direct HDL Cholesterol
Direct LDL Cholesterol

HDL3 Lipoprotein (a)

sLDL Triglycerides

**NEONATAL SCREENING:** 

Alpha-I Antitrypsin

CRE

CRP Full Range (0.3-160mg/l) CRP High Sensitivity

ΙgΕ

Transthyretin (Prealbumin)

NEUROLOGICAL DISORDERS (CSF):

lgA lgG lgM

NUTRITIONAL STATUS:

Albumin Copper Ferritin Iron Iron (UIBC) Lipase Magnesium Potassium TIBC Transferrin

Transthyretin (Prealbumin)

Zind

PANCREATIC FUNCTION:

Amylase Glucose LDH Lipase

Pancreatic Amylase

**RENAL FUNCTION:** 

Albumin Ammonia

Beta-2 Microglobulin

Calcium
Chloride
Creatinine
Cystatin C
Glucose
HbA1c/Hb
IgG

LDH Magnesium Microalbumin Potassium Sodium

Phosphorus (Inorganic)

Urinary Protein

Urea Uric Acid



#### **VETERINARY**

Albumin Alkaline phosphatase ALT (GPT) Aldolase Ammonia **Amylase** AST (GOT) Bile acids Bilirubin

Cholesterol Cholinesterase (Butyryl) CK-NAC CO<sub>2</sub> Total Copper Creatinine Canine CRP CRP Gamma-GT GLDH

Glucose Glycerol HDL Iron (UIBC) Lactate

Total Protein Lactate dehydrogenase LDL Triglycerides Urea Magnesium Uric Acid NEFA (Non-esterified fatty acids) Urinary protein Phosphorus (Inorganic) Zinc



Calcium

Chloride

#### **TOXICOLOGY**

THERAPEUTIC DRUGS: Acetaminophen

Carbamazepine Digoxin Gentamicin

Phenobarbitol Phenytoin Salicylate Valproic Acid

**DRUGS OF ABUSE:** Amphetamines **Barbiturates** Benzodiazepines Cannabinoids Cocaine metabolite

Ecstasy EDDP Ethanol Methadone **Opiates** 

Potassium

Sodium

Ranbut (Hydroxybutyrate)

Ransel (Glutathione peroxidase)

Ransod (Superoxide dismutase)



#### **PROTEINS**

SPECIFIC PROTEINS:

Alpha-I Antitrypsin Alpha-I Acid Glycoprotein Apolipoprotein A-I Apolipoprotein All Apolipoprotein B Apolipoprotein CII Apolipoprotein CIII

Apolipoprotein E ASO

Beta-2 Microglobulin Ceruloplasmin Complement Component 3 Complement Component 4

CRP Full Range (0.3-160mg/l)

CRP High Sensitivity

Cystatin C Ferritin Haptoglobin

HbA1c/Hb lgΑ

ΙgΕ

lgG lgM

Lipoprotein (a) Microalbumin Myoglobin Rheumatoid Factor Transthyretin (Prealbumin)

Transferrin



#### **RESEARCH**

**ANTIOXIDANTS:** 

Albumin Bilirubin Ferritin

Glutathione Reductase Ransel (Glutathione Peroxidase) Ransod (Superoxide Dismutase)

Total Antioxidant Status

Transferrin Uric Acid

FOOD AND WINE TESTING: Acetic acid

Ammonia Copper Ethanol

Glucose/fructose Lactic acid Malic acid

NOPA Potassium Total SO<sub>3</sub>

**BIOTECHNOLOGY:** 

Glutamate Glutamine

SPECIALITY: Acid phosphatase

### >> THE RX SERIES A-Z TEST MENU

Cannabinoids

#### AUTOMATED

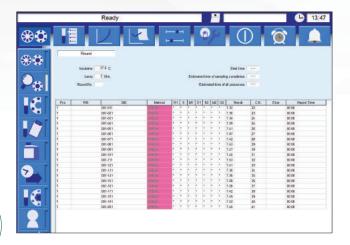
Acetaminophen	Carbamazepine	Glutamate	Methadone
Acetic Acid	Ceruloplasmin	Glutamine	Microalbumin
Acid phosphatase	Chloride (Non-Direct)	Glutathione Peroxidase (Ransel)	Myoglobin
Adiponectin	Cholesterol	Glutathione Reductase	NEFA (Non-Esterified Fatty Acids)
Albumin	Cholinesterase (Butyryl)	Glycerol	Opiates
Aldolase	CK-MB	Haptoglobin	Pancreatic Amylase
Alkaline Phosphatase	CK-NAC	HbA1c/Hb	Phenobarbitol
Alpha-I Acid Glycoprotein	CO <sub>2</sub> Total	HDL3	Phenytoin
Alpha-I Antitrypsin	Cocaine metabolite	HDL Cholesterol (Direct)	Phosphorus
ALT (GPT)	Complement Component 3	Heart-Type Fatty Acid Binding	Potassium (Non-Direct)
Ammonia	Complement Component 4	Protein (H-FABP)	Rheumatoid Factor
Amphetamines	Copper	Homocysteine	Salicylate
Amylase	Creatinine	Hydroxybutyrate (Ranbut)	sLDL
Apolipoprotein A-I	CRP	IgA	Sodium (Non-Direct)
Apolipoprotein All	CRP Full Range (0.3-160mg/l)	IgE	Superoxide Dismutase (Ransod)
Apolipoprotein B	CRP High Sensitivity	IgG	TIBC
Apolipoprotein CII	Cystatin C	IgM	Total Antioxidant Status
Apolipoprotein CIII	Digoxin	Iron	Total Protein
Apolipoprotein E	Ecstasy	Lactate	Transferrin
ASO	EDDP	LAP	Transthyretin (Prealbumin)
AST (GOT)	Ethanol	LDH	Triglycerides
Barbiturates	Ferritin	LDL Cholesterol (Direct)	TxB Cardio
Benzodiazepines	Fructosamine	Lipase	Urea
Beta-2 Microglobulin	G-6-PDH	Lipoprotein (a)	Uric Acid
Bile Acids	Gamma GT	Lithium	Urinary Protein
Bilirubin (Direct & Total)	Gentamicin	L-Lactic Acid	Valproic Acid
Calcium	GLDH	Magnesium	Zinc
Canine CRP	Glucose	Malic Acid	
Compositionalida	GI /F		

Glucose/Fructose



### >> SOFTWARE

The RX daytona+ utilises familiar Windows® based software and easily recognisable icons making it appealing and easy-to-use for all staff involved in its operation. Straightforward operation of the software results in minimal training requirements and enhanced productivity. The superior functionality of the quality control software generates Levey-Jennings charts, calibration curves and QC statistics for reliable patient results. **LIMS** (Laboratory Information Management System) connectivity is easily achievable via ASTM standard.



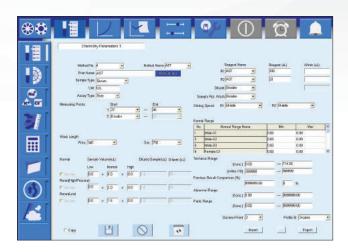
#### **REPORTS**

The operator can easily search for previous reports and view real time results status, including time left until completion. The RX daytona+ has a high capacity storage of up to 30,000 patient reports.



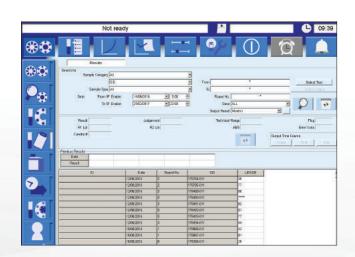
#### REAGENT INVENTORY

Remaining reagent volume is automatically calculated on-board alongside the number of tests available and stability of the reagents. Should insufficient volume remain for any reagent, an alarm will sound, allowing the operator to resolve the situation.



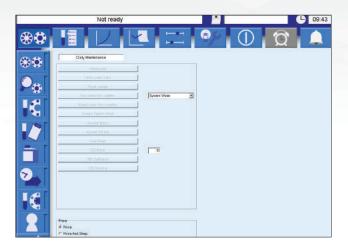
#### CHEMISTRY PARAMETERS

The chemistry parameters screen enables pre-sample dilution to be set up and re-running of assays as required. The user may set up to 20 different test profiles and define the order of analysis.



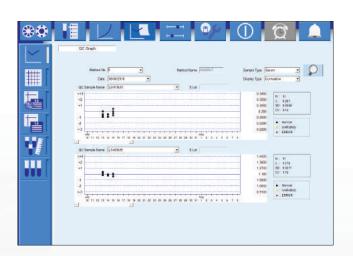
#### **RESULTS**

Results are easily searchable via options such as sample type or date. Laboratory staff can download and print results or transmit results to the LIMS system for all relevant clinicians to view.



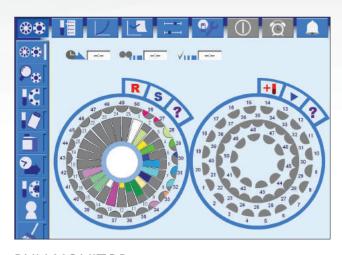
#### **MAINTENANCE**

The operator is instructed via easy to follow steps on how to carry out daily, weekly and monthly maintenance. Daily maintenance takes only 5 minutes to do. The analyser has a countdown timer to show when routine servicing is due.



#### **QUALITY CONTROL**

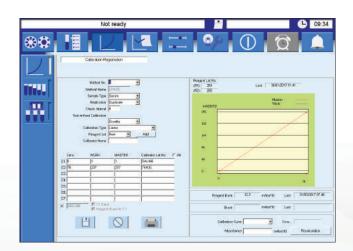
The QC screen generates Levey-Jennings charts and calibration curves for a visual performance assessment, plus easy identification of QC errors and emerging trends. QC multi rules can be applied to ensure high error detection and minimal false rejection.



#### **RUN MONITOR**

The run monitor displays full patient demographics.

This screen indicates the number of tests and time left until completion. The operator may also add emergency STAT samples from this screen.



#### **CALIBRATION**

The software displays the current valid calibration for each assay installed, the reagent blank absorbance (if appropriate) and the calibration check interval. There are 7 calibration models available: Factor, Linear, Point to point, Log-logit, Exponential, Spline & Spline 2.

Low water consumption of just 5 litres per hour



Unique emergency loading port allows STAT samples to be analysed quickly and easily during runs

Automatic wake and sleep mode plus pre-programmable instrument preparation



Dual 5 speed stirrers optimised for each chemistry reaction

Clot detection sensor recognises clots such as fibrin at the sample pipette so that only acceptable samples are tested



Reagent micropipette with liquid level sensor and crash detection alerts operator to follow troubleshooting steps

### >> ORDERING & CUSTOMER SUPPORT



#### ORDERING INFORMATION

RX daytona+ with ISE	RX4040
RX daytona + without ISE	RX4041

For more information contact your local representative, or email us at:



### >> SPECIFICATIONS

#### PHYSICAL DIMENSIONS

Height	625mm
Depth	670mm
Width	870mm
Weight	120kg

#### PERFORMANCE CHARACTERISTICS

Throughput	270 tests per hour, 450 tests per hour with ISE	
Analyser type	Compact fully automated random access bench top clinical analyser	
Assay type	Endpoint, kinetic and ISE	
Maintenance	Daily maintenance - less than 5 minutes. Simple twice yearly preventative maintenance service	

#### **REAGENT & SAMPLE SYSTEM**

Data management	Storage of up to 30,000 patient reports, search facility
Test channels	50 photometric channels, 3 direct ISE
Sleep mode	User defined sleep mode capabilities with automatic wash and instrument prep
Reagent pipette	Dedicated reagent micropipette with liquid level sensor and crash detection
Reagent capacity	Removable turntable with 50 cooled positions for 20ml and 70ml bottles
Reagent cooling	8 to 15°C
Reagent identification	Barcode reagent identification
Reagent inventory	Calculation of remaining reagent volume and tests available Alert for shortage or expired reagents
Sample addition	Sampling interruption for addition of samples
Sample capacity	50 positions are contained within the universal carousel, including 10 bespoke positions for calibrators and controls
Sample dead volume	150μl in standard or primary tubes, 100μl in paediatric cups
Sample dilution	Pre-dilution and automatic re-assay with diluted, reduced or increased sample volume
Sample identification	Barcode sample identification
Sample pipette	Dedicated sample micropipette with liquid level sensor, crash protection and clot detection
Sample tube size	Multiple primary tube sizes (diameter 12 to 16mm, height 55 to 100mm), Paediatric cups
Sample type	Serum, plasma & urine
Sample volume	I.5 to 35μl (0.1μl increments)
STAT sampling	STAT samples can be added immediately via emergency loading port

#### **REACTION SYSTEM**

Reaction time	10 minutes (R1: 5 min. + R2: 5 min.)
Reaction volume	100 to 350μl
Stirring speed	5 speed levels available
Stirring system	Dual 5 speed stick type rotating stirrers
Temperature control	Dry bath
Water consumption	Maximum 5 litres per hour
Water requirements	NCCLS type I or 2 purified water supply
Wash unit	12 stage washing process
Cuvettes	72 semi-permanent cuvettes
Incubator temperature	37°C ± 0.1°C
Cycle time	13 seconds

#### **OPTICAL SYSTEM**

Detector method	Direct absorbance in cuvette (bi-chromatic and monochromatic)
Detection principal	12 wavelengths generated via diffraction grating: 340, 380, 415, 450, 510, 546, 570, 600, 660, 700, 750 and 800nm
ISE unit	Optional ISE unit available
Light source	Halogen tungsten lamp air cooled by fan

### CALIBRATION & QC

Quality control	Interactive Levey-Jennings charts, daily, monthly and batch QC with data archiving
Calibration principal	Factor, Linear, Point to point, Log-logit, Exponential, Spline and Spline 2

### POWER & CONNECTIVITY

	AC100V to 120V, 6.5A (Max.)
Power requirement	AC200 to 230V, 3.3A (Max.)
	50/60Hz
Power consumption	650VA
Permissable voltage variation	± 10% (Max.)
LIMS connectivity	Bi-directional ASTM Standard (RS232 connection)

### **OPERATING SYSTEM**

Operator interface	Windows® based software

### >> THE RX SERIES







A semi-automated clinical chemistry analyser with the ability to run flow cell or cuvette mode. The RX misano offers 9 wavelengths spanning 340-700nm as standard, with an optional 280nm. A large 7" touch screen monitor responsive even when wearing lab gloves allows the user to easily navigate through the testing screens of the analyser. USB port allows to import Randox-defined test menus and export patient, QC and calibration results.



A fully automated, random access clinical chemistry analyser with 12 wavelengths between 340-800nm and a throughput of 170 tests per hour. Available as a benchtop or floor standing model with Windows® based software and STAT sampling as standard. The low throughput of the RX monaco provides small to mid-volume laboratories with cost effective analysis and high quality testing.







A fully automated, random access benchtop clinical chemistry analyser with a photometric throughput of 400 tests per hour increasing to 560 including ISE. There are 12 wavelengths spanning 340-800nm and the RX imola provides liquid level, clot, crash and bubble detection. Software is windows based and STAT sampling is available via an emergency loading port. The RX imola offers efficiency for medium sized laboratories.



A fully automated, random access, floor standing clinical chemistry analyser with a photometric throughput of 800 test per hour, increasing to 1200 including ISE. There are 13 wavelengths spanning 340-800nm and a fully automated onboard, haemolysis function for running HbA1c. Accurate results are supported by liquid level, clot, and crash detection.

The operating system utilises a modern touchscreen interface and Windows® icon based software.

# >> RANDOX - A GLOBAL DIAGNOSTIC SOLUTIONS PROVIDER

Randox has been supplying laboratories worldwide with revolutionary diagnostic solutions for over 35 years. Our experience and expertise allow us to create a leading product portfolio of high quality diagnostic tools which offer reliable and rapid diagnosis. We believe that by providing laboratories with the right tools, we can improve health care worldwide.

#### **REAGENTS**

Randox offers an extensive range of diagnostic reagents, giving biochemistry laboratories the opportunity to advance their routine and niche testing.

The Randox reagents range goes beyond routine chemistries. At Randox we re-invest significantly in research and development to ensure we meet the ever changing needs of the laboratory. As a result, the esoteric reagents range from Randox is extensive and includes sLDL, Lipoprotein(a), H-FABP, Cystatin C, TxBCardio, Adiponectin, Bile Acids, Copper, D-3-Hydroxybutyrate, G-6-PDH, Non-Esterified Fatty Acids, Total Antioxidant Status and Zinc.

Randox Reagents provide a number of benefits for the laboratory: Cost savings through excellent stability, automated methods and standards supplied with some kits; confidence in results with high performance methods, minimal interferences and wide measuring ranges; convenience and choice with applications for over 100 biochemistry analysers; liquid ready-to-use reagents, a wide range of kit sizes and complementary controls and calibrators.

#### **ACUSERA**

Randox is a world leading manufacturer of multi-analyte, true third party controls. Thousands of laboratories rely on us to accurately assess test system performance and ultimately empower them with the confidence required to release patient test results. With more than 390 analytes available across the Acusera range we can uniquely reduce the number of individual controls required while simultaneously reducing costs, time and storage space. A choice of formats are available, including liquid or lyophilised, ensuring flexibility and suitability for laboratories of all sizes and budgets.

Some of our principle products include Clinical Chemistry, Immunoassay, Urine, Immunology/Proteins, Cardiac Markers and Therapeutic Drugs among others. As a primary manufacturer, Randox are also able to offer the unique service of custom made controls.

#### RIQAS

Boasting over 45,000 participants and more than 360 parameters across 32 comprehensive & flexible EQA programmes, RIQAS is the largest international EQA scheme. Designed to cover all areas of clinical testing, each of our multi-analyte programmes benefit from a wide range of concentrations, frequent reporting, rapid feedback and informative yet user-friendly reports.

#### **BIOCHIP ARRAY TECHNOLOGY**

Biochip Array Technology (BAT) is an innovative assay technology for multi-analyte screening of biological samples in a rapid, accurate and easy to use format. BAT offers highly specific tests, coupled to highly sensitive chemiluminescent detection, providing quantitative results in easy to interpret reports. Randox BAT assays offer diagnostic, prognostic and predictive solutions across a variety of disease areas including sexually transmitted infection, cardiovascular disease (CVD), familial hypercholesterolemia (FH), colorectal cancer and respiratory infection.

#### Contact us for more information on any of our products and services:

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