RANDOX

THIRD PARTY CONTROLS

ACUSERA

RANDOX
QUALITY CONTROL

ACUSERA

TRUE THIRD PARTY CONTROLS
OFFERING COMPLETE TEST MENU CONSOLIDATION

BENEFITS

For more than 35 years Randox has been shaping the future of clinical diagnostics with our pioneering high quality, cost effective laboratory solutions. With approximately 70% of clinical decisions based on laboratory test results, it is essential that the results provided are accurate and reliable in order to prevent potential misdiagnosis or inappropriate treatment.

Quality Control is our passion; we believe in producing high quality material that can help streamline procedures, whilst saving time and money for laboratories of all sizes and budgets. With an extensive product offering comprising third party quality controls & calibrators, interlaboratory data management, external quality assessment, calibration verification and molecular IQC and EQA for infectious disease testing, you can count on Randox to deliver trustworthy results time and time again. Just ask one of our 60,000 users worldwide.

Commutability

All Acusera controls are designed to react to the test system in the same manner as the patient sample, helping to meet ISO 15189:2012 requirements whilst reducing inconvenient and costly shifts in QC results when reagent batch is changed.

Accurate Target Values

Our unique value assignment process utilises thousands of independent labs globally, ensuring availability of highly accurate, robust target values for a wide range of instruments and methods, ultimately eliminating the need to spend time and money assigning in-house.

True Third Party Controls

Manufactured independently, the Acusera range delivers unbiased performance assessment with any instrument or method, helping to meet ISO 15189:2012 requirements whilst simultaneously eliminating the need for multiple instrument dedicated controls.

Shelf Life

With a shelf life of up to four years for lyophilised controls and two years for liquid controls, you can benefit from continuity of lot supply whilst reducing the frequency of new lot validation studies, thus saving time and money.

Consistency

Our superior manufacturing processes ensure stability claims and analyte levels won't differ significantly from lot-to-lot. You can therefore be sure of receiving the same standard of product time and time again.

BENEFITS

Traceability

The values assigned to both our calibrators and control materials are traceable to a recognised reference material or reference measurement procedure meeting ISO 17511 and ISO 18153 requirements.

Consolidation

Specialising in consolidation, the Acusera range of multi-analyte controls is designed to reduce the number of individual controls required to cover your test menu, ultimately reducing costs, preparation time and storage space.

Clinically Relevant Levels

The presence of analytes at key decision levels not only helps to ensure accurate instrument performance but maximises laboratory efficiency by eliminating the need for additional low/high level controls at extra expense.

Reduced Waste

The unrivalled working stability of the Acusera control range helps to keep waste and costs to a minimum.

Flexible Options

With an extensive range of assayed/unassayed, liquid/lyophilised and single/multi-analyte controls, the Acusera portfolio has a solution to suit all laboratory preferences.

Custom Controls

Randox is a market leader in the manufacture of customised quality controls designed to meet the individual and unique requirements of even the most specialised laboratories.

For more information about Randox and for our full range of products, please visit randoxqc.com, or contact your local Randox representative.

ISO REQUIREMENTS

Acusera; helping you to meet ISO 15189:2012 requirements.

Third Party Controls

"Use of independent third party control materials should be considered, either instead of, or in addition to, any control materials supplied by the reagent or instrument manufacturer"

As true third party controls, the Acusera range has been designed to provide an unbiased, independent assessment of performance. Our Acusera controls have not been manufactured in line with, or optimised for use with any particular reagent, method or instrument.

Commutability

"The laboratory shall use quality control materials that react to the examining system in a manner as close as possible to patient samples"

All Acusera controls are 100% commutable, ensuring they behave in the same manner as a patient sample thus providing an accurate reflection of test system performance.

Clinically Relevant Levels

"The laboratory should choose concentrations of control materials wherever possible, especially at or near clinical decision values, which ensure the validity of decisions made".

The inclusion of analytes at clinical decision levels will not only eliminate the need to purchase additional low/high level controls but will help to ensure accurate instrument performance.

Data Management

"The laboratory shall have a procedure to prevent the release of patient results in the event of quality control failure. When the quality control rules are violated and indicate that examination results are likely to contain clinically significant errors, the results shall be rejected.... Quality Control data shall be reviewed at regular intervals to detect trends in examination performance".

Acusera 24•7 provides instant access to an unrivalled range of features including QC multi-rules, interactive charts, live peer group data, automatic calculation of Measurement Uncertainty & Sigma Metrics & our unique dashboard interface, all designed to speed up the review process and provide at-a-glance performance assessment.

EQA

"The laboratory shall participate in interlaboratory comparisons such as those organised by external quality assessment or proficiency testing schemes".

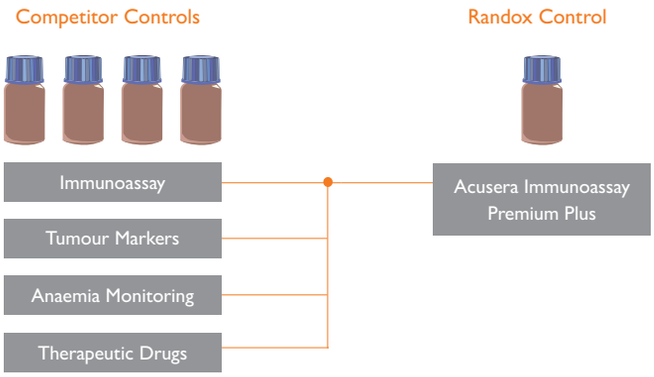
The Randox International Quality Assessment Scheme (RIQAS), is used by more than 45,000 laboratory participants in 133 countries and accredited to ISO 17043. As a result, we have RIQAS users on every continent who are registered for one or more of our 33 flexible EQA programmes, utilising the available data to ensure the quality and reliability of their results.

Consolidate and Save with Randox Acusera

Randox is a leading provider of multi-analyte, true third party controls covering more than 390 parameters. The unique combination of analytes facilitates effective consolidation, helping your laboratory to reduce costs without compromising on performance or quality. Unlike some competitor products, our Acusera Controls are manufactured with analytes present at clinically relevant decision levels, eliminating the need to purchase additional high or low level controls, at extra expense.

How can consolidating with Randox Acusera benefit you?

With Randox Acusera you could consolidate up to 6 competitor controls into one Acusera control, reducing the amount of storage space required for your QC material, as well as saving valuable time and money for your laboratory. The following examples have been selected to highlight areas where Acusera can help you effectively consolidate your control purchases.

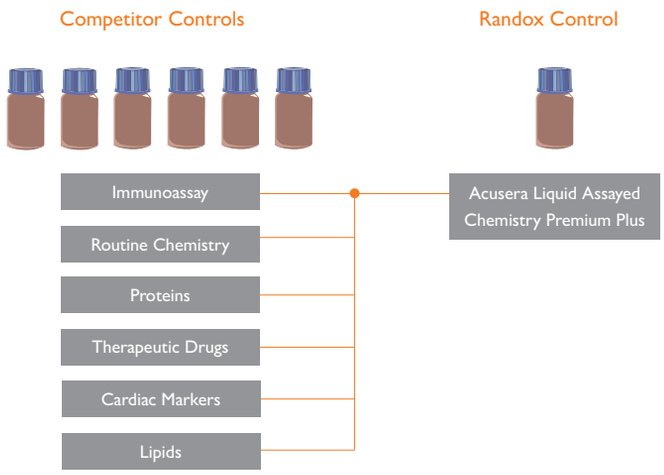


Immunoassay Premium Plus Control

Impressively covering 54 analytes including tumour markers, therapeutic drugs and routine immunoassay tests, the Acusera Immunoassay Premium Plus control has been uniquely designed to eliminate the need for four or more controls, dramatically reducing costs and time. The added advantage of ultra-low levels of Ferritin, Vitamin B_{12} and TSH will help to ensure accurate performance at key decision levels and further reduce the number of controls required. - *turn to page 39 for more information*

Liquid Assayed Chemistry Premium Plus Control

Uniquely combining up to 99 analytes including; routine chemistry, immunoassays, lipids, therapeutic drugs, proteins and cardiac markers in a single vial, you can experience effective consolidation and significant cost savings. The presence of CRP and other proteins at elevated levels will not only help to ensure accurate instrument performance at key decision levels but further reduce the number of individual controls required. - *turn to page 22 for more information*



COMMITMENT TO QUALITY

Randox is committed to quality at every stage of the production process from research and development to customer support. This commitment has been recognised through official accreditation to both national and international standards including UKAS and ISO.

Accreditation to international standards ensures confidence in the quality and consistency of the products and services provided by Randox, and demonstrates compliance to internationally agreed standards.

UKAS

The United Kingdom Accreditation Service (UKAS) is the only national accreditation body recognised by the government to assess against internationally agreed standards.

RIQAS systems and procedures have been accredited with UKAS approval to **ISO/IEC 17043:2010** "Conformity assessment - General requirements for proficiency testing"

ISO13485:2016

The International Organisation for Standardisation (ISO) is the largest developer and publisher of international standards in the world. In 2016, Randox was accredited with **ISO13485:2016** approval.

ISO13485:2016 relates to the design/development, manufacture, service and distribution of in vitro diagnostic medical devices, in vitro diagnostic test kits, in vitro diagnostic reagents and in vitro diagnostic analysers.

ISO13485:2016 highlights the requirements for a quality management system where an organisation needs to prove its ability to provide medical devices and other related services that consistently meet regulatory requirements.

FDA Cleared

Many of our quality controls and calibrators are FDA cleared and therefore appropriate for clinical use in the USA. In order for an IVD to be approved for sale in the USA it must not only be safe for use and effective but it must also satisfy the requirements set out in **part 820 title 21** of the Code of Federal Regulations published by the FDA.

CE Mark

Many of our Quality Control (QC) products are CE certified and carry the CE mark. CE marking on a product indicates that the product complies with and has satisfied the essential requirements set out by the **In Vitro Diagnostic (IVD) Medical Devices Directive 98/79/EC**. It also demonstrates the fact the product is fit for its intended purpose.

The CE mark is also a declaration from the manufacturer that the product has met all legislation in relation to health and safety and where required, has been assessed in accordance with this legislation.

CE marking is essential for products to be placed on the market and sold in the European Union (EU). It also ensures the free movement of products within the EFTA and EU.

Canadian Medical Device Regulations from Health Canada

Many Randox products, including our quality controls and calibrators, are **licensed for use in Canada**. Before an IVD device can be sold in Canada, it must meet the requirements set out in the Therapeutic Products Directorate. Health Canada reviews all medical devices to assess their safety, effectiveness and quality before they are authorised for sale.

ANTIOXIDANT CONTROLS

Free radicals are highly reactive molecules that seek stability by gaining other electrons. In their attempt to do this they often attack nearby molecules, resulting in cellular or systemic damage. Antioxidants act by preventing or slowing the damage caused by these free radicals. A reduction in total antioxidant status has been identified in several disease states, such as cancer and heart disease. Our Acusera Antioxidant Quality Controls are lyophilised for enhanced stability and cover a range of antioxidants ideal for both clinical and research use.

ANTIOXIDANTS

Antioxidant Product Range			
Product Description	Size	Cat. No.	Page No.
Glutathione Reductase Control	10 x 5 ml	GR2608	08
Glutathione Reductase Calibrator	10 x 5 ml	GR2609	08
Glutathione Peroxidase (Ransel) Control	10 x 1 ml	SC692	08
Glutathione Peroxidase (Ransel) Calibrator	10 x 1 ml	SC10154	08
Superoxide Dismutase (Ransod) Control	10 x 1 ml	SD126	08
Total Antioxidant Status (TAS) Control	10 x 5 ml	NX2331	08
Total Antioxidant Status (TAS) Calibrator	10 x 1 ml	NX2615	08


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Glutathione Reductase Control and Calibrator

A bovine based control designed for use in the routine monitoring of accuracy and precision. This product is compatible for use on most clinical chemistry analysers.

- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 1 day at 2°C to 8°C or 8 hours at 15°C to 25°C

Description	Size	Cat. No.
Glutathione Reductase Control	10 x 5 ml	GR2608
Glutathione Reductase Calibrator	10 x 5 ml	GR2609

Glutathione Peroxidase (Ransel) Control and Calibrator

A bovine based, whole blood control designed for use in the routine monitoring of accuracy and precision. This product is compatible for use on most clinical chemistry analysers.

- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 3 days at 2°C to 8°C

Description	Size	Cat. No.
Ransel Control	10 x 1 ml	SC692
Ransel Calibrator	10 x 1 ml	SC10154

Superoxide Dismutase (Ransod) Control

A bovine based, whole blood control designed for use in the routine monitoring of accuracy and precision. This product is compatible for use on most clinical chemistry analysers.

- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 10 days at 2°C to 8°C

Description	Size	Cat. No.
Ransod Control	10 x 1 ml	SD126

Total Antioxidant Status (TAS) Control and Calibrator

A human based control designed for use in the routine monitoring of accuracy and precision. This product is compatible for use on most clinical chemistry analysers.

Control
- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 2 days at 2°C to 8°C or 12 hours at 15°C to 25°C

Calibrator
- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 2 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Total Antioxidant Status Control	10 x 5 ml	NX2331
Total Antioxidant Status Calibrator	10 x 1 ml	NX2615

BLOOD GAS CONTROLS

Blood Gas tests can provide crucial information for medical professionals in acute care environments. As such, the results they produce must be accurate and reliable to ensure correct patient diagnosis and subsequent treatment. Used in both clinical laboratories and at the point-of-care, our Acusera Blood Gas Controls have been designed to ensure ease-of-use and peace of mind. The liquid ready-to-use format ensures that no preparation time is needed and controls can be easily stored both on the ward and in the laboratory at 2°C to 8°C.

Blood Gas Product Range			
Product Description	Size	Cat. No.	Page No.
Blood Gas Control Level 1	30 x 1.8 ml	BG5001	11
Blood Gas Control Level 2	30 x 1.8 ml	BG5002	11
Blood Gas Control Level 3	30 x 1.8 ml	BG5003	11

Liquid ready-to-use


Liquid frozen

Lyophilised for enhanced stability


Assayed target values provided

100% human matrix

BLOOD GAS

Blood Gas Control

Analytes			
Bicarbonate	Glucose	pH	Sodium
Calcium	Lactate	pO_2	
Chloride	pCO_2	Potassium	

Combining 10 parameters including electrolytes and lactate, the Acusera Blood Gas control is designed to meet the demands of today's blood gas analysers. Supplied in convenient, easy to open ampoules and in a liquid ready-to-use format, preparation is kept to an absolute minimum, making this control ideally suited for POC testing. As a true third party control, assayed target values are provided, ensuring unbiased performance assessment.

- Liquid ready-to-use
- Aqueous material
- Suitable for use in POCT
- Stable to expiry date at 2°C to 8°C
- Once opened, controls should be analysed immediately for pH and blood gas analytes; for electrolyte measurements, the control should be analysed within 1 hour of opening

Description	Size	Cat. No.
Blood Gas Control Level 1	30 x 1.8 ml	BG5001
Blood Gas Control Level 2	30 x 1.8 ml	BG5002
Blood Gas Control Level 3	30 x 1.8 ml	BG5003

CARDIAC CONTROLS

The accurate diagnosis of a potentially life threatening cardiac event is essential in order to avoid misdiagnosis and/or incorrect treatment. The Acusera Cardiac Controls have been designed to cover a wide range of cardiac markers at clinical decision levels, eliminating the need for additional low level controls at extra expense. Manufactured from 100% human serum, a matrix similar to that of the patient sample is guaranteed.

CARDIAC

Cardiac Product Range			
Product Description	Size	Cat. No.	Page No.
Tri-Level Cardiac Control	3 x 1 ml	CQ3100	14
Tri-Level Cardiac Control	3 x 2 ml	CQ3259	14
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 1	3 x 1 ml	CQ5133	14
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 2	3 x 1 ml	CQ5134	14
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 3	3 x 1 ml	CQ5135	14
Liquid BNP Control (Abbott Architect) Level 1	3 x 1 ml	CQ5136	14
Liquid BNP Control (Abbott Architect) Level 2	3 x 1 ml	CQ5137	14
Liquid BNP Control (Abbott Architect) Level 3	3 x 1 ml	CQ5138	14
Liquid BNP Control (Siemens Advia Centaur) Level 1	3 x 1 ml	CQ5139	14
Liquid BNP Control (Siemens Advia Centaur) Level 2	3 x 1 ml	CQ5140	14
Liquid BNP Control (Siemens Advia Centaur) Level 3	3 x 1 ml	CQ5141	14
High Sensitivity Troponin T Control	3 x 3 ml	CQ5080	15
CK-MB Control	10 x 2 ml	CK1212	15
CK-MB Calibrator	10 x 1 ml	CK2393	15
Myoglobin Calibrator Series	4 x 1 ml	MY2456	15
H-FABP Control Level 1	3 x 1 ml	FB4026	16
H-FABP Control Level 2	3 x 1 ml	FB4027	16
H-FABP Calibrator Series	6 x 1 ml	FB3134	16
$sPLA_2$-IIA Control Level 1 & 2	2 x 3 x 1 ml	PLA8382	16
$sPLA_2$-IIA Calibrator	6 x 1 ml	PLA8381	16


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Cardiac Control

Analytes			
CK (Total)	CK-MB (Mass)	Myoglobin	Troponin T
CK-MB (Activity)*	Homocysteine	Troponin I	

The Acusera Cardiac Control was designed for the routine monitoring of accuracy and precision. Assayed, instrument specific values and ranges are provided for 7 common cardiac markers, eliminating the need to spend time assigning target values in-house. The availability of two convenient pack sizes ensures suitability for all laboratory throughputs.

- Lyophilised for enhanced stability
- 100% human serum
- Cut off levels for Troponin I and T in-line with international recommendations
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Tri-Level Cardiac Control	3 x 1 ml	CQ3100
Tri-Level Cardiac Control	3 x 2 ml	CQ3259

* Only available in level 2 and level 3

Liquid BNP Controls

Dedicated BNP control designed for use in the routine monitoring of accuracy and precision. Instrument dedicated material is supplied liquid ready-to-use with assayed values ensuring specific analyser requirements are met, while maintaining user convenience.

- Liquid ready-to-use
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 1	3 x 1 ml	CQ5133
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 2	3 x 1 ml	CQ5134
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 3	3 x 1 ml	CQ5135
Liquid BNP Control (Abbott Architect) Level 1	3 x 1 ml	CQ5136
Liquid BNP Control (Abbott Architect) Level 2	3 x 1 ml	CQ5137
Liquid BNP Control (Abbott Architect) Level 3	3 x 1 ml	CQ5138
Liquid BNP Control (Siemens Advia Centaur) Level 1	3 x 1 ml	CQ5139
Liquid BNP Control (Siemens Advia Centaur) Level 2	3 x 1 ml	CQ5140
Liquid BNP Control (Siemens Advia Centaur) Level 3	3 x 1 ml	CQ5141

CARDIAC

High Sensitivity Troponin T Control

Delivering a true third party solution for Roche instruments, the Acusera High Sensitivity Troponin T control will ensure unbiased performance assessment. Assayed target values are provided close to the 99th percentile reference range (14ng/l) helping to deliver accurate performance at key decision levels.

- Lyophilised for enhanced stability
- 100% human serum
- Very low Troponin T levels
- Stable to expiry at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
High Sensitivity Troponin T Control	3 x 3 ml	CQ5080

CK-MB Control and Calibrator

Analytes	
CK-MB	CK-NAC*

A dedicated true third party CK-MB control designed for the routine monitoring of both accuracy and precision. Assayed target values and ranges are provided for serum start, substrate start and CK-NAC methods eliminating the need to spend time assigning target values in-house.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 4°C, 8 hours at 25°C and 28 days at -20°C

Description	Size	Cat. No.
CK-MB Control	10 x 2 ml	CK1212
CK-MB Calibrator	10 x 1 ml	CK2393

* CK-NAC is not available in the CK-MB Calibrator

Myoglobin Calibrator Series

Dedicated third party calibrator designed for use in the calibration of Myoglobin immunoturbidimetric assays.

- Lyophilised for enhanced stability
- Prepared from purified human Myoglobin in a stabilised matrix
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 30 days at 2°C to 8°C, 8 hours at 25°C and 28 days at -20°C

Description	Size	Cat. No.
Myoglobin Calibrator Series	4 x 1 ml	MY2456

Heart Type Fatty Acid Binding Protein (H-FABP) Control and Calibrator Set

Dedicated controls and calibrators designed for use in the routine monitoring and calibration of the Randox H-FABP assay.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry at 2°C to 8°C
- Reconstituted stability of 35 days at 2°C to 8°C and 8 weeks at -20°C

Description	Size	Cat. No.
H-FABP Control Level 1	3 x 1 ml	FB4026
H-FABP Control Level 2	3 x 1 ml	FB4027
H-FABP Calibrator Series	6 x 1 ml	FB3134

$sPLA_2$-IIA Control and Calibrator

The Acusera $sPLA_2$-IIA control is designed for use in the routine monitoring of both accuracy and precision. This true third party control comes in a lyophilised format and is available in a convenient bi-level pack.

- Lyophilised for enhanced stability
- Human based serum
- Stable to expiry at 2°C to 8°C

Description	Size	Cat. No.
$sPLA_2$-IIA Control Level 1 & 2	2 x 3 x 1ml	PLA8382
$sPLA_2$-IIA Calibrator	6 x 1 ml	PLA8381

CLINICAL CHEMISTRY CONTROLS

Our clinical chemistry controls are suitable for a range of integrated analyser systems and methods. To cover all laboratory requirements, our flexible Clinical Chemistry Controls contain up to 100 analytes, delivering effective consolidation and cost savings. Available in a choice of assayed/unassayed, liquid/lyophilised and human/bovine formats, options are available to suit all laboratory sizes and budgets.

Clinical Chemistry Product Range			
Product Description	Size	Cat. No.	Page No.
Precision Chemistry Premium Plus Level 2	20 x 5 ml	UN1557	19
Precision Chemistry Premium Plus Level 3	20 x 5 ml	UE1558	19
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069	20
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070	20
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071	20
Assayed Chemistry Premium Plus Level 2	20 x 5 ml	HN1530	21
Assayed Chemistry Premium Plus Level 3	20 x 5 ml	HE1532	21
Assayed Chemistry Premium Plus Level 2 & 3	2 x 5 x 5 ml	HS2611	21
Liquid Assayed Chemistry Premium Plus Level 1	12 x 5 ml	LAL4213	22
Liquid Assayed Chemistry Premium Plus Level 2	12 x 5 ml	LAN4214	22
Liquid Assayed Chemistry Premium Plus Level 3	12 x 5 ml	LAE4215	22
Bovine Chemistry Assayed Level 1	20 x 5 ml	AL1027	23
Bovine Chemistry Assayed Level 2	20 x 5 ml	AN1026	23
Bovine Chemistry Assayed Level 3	20 x 5 ml	AE1032	23
Clinical Chemistry Calibration Serum Level 2	20 x 5 ml	CAL2350	24
Clinical Chemistry Calibration Serum Level 3	20 x 5 ml	CAL2351	24
Ammonia Ethanol Control Level 1	6 x 2 ml	EA1366	24
Ammonia Ethanol Control Level 2	6 x 2 ml	EA1367	24
Ammonia Ethanol Control Level 3	6 x 2 ml	EA1368	24
Aldolase Calibrator	3 x 1 ml	AD5000	25
Aldolase Control Level 2	3 x 1 ml	AD5001	25
Aldolase Control Level 3	3 x 1 ml	AD5002	25
Bilirubin Elevated Serum	10 x 3 ml	BE454	25
Glycerol Control	3 x 5 ml	GY1369	25
Multi Calibrator	3 x 2 ml	MC1382	26
Multi Control Level 1	5 x 2 ml	MC1379	26
Multi Control Level 2	5 x 2 ml	MC1380	26
Multi Control Level 3	5 x 2 ml	MC1381	26
Glutamine Control Level 1	5 x 5 ml	GM1376	26
Glutamine Control Level 2	5 x 5 ml	GM1377	26
Glutamine Control Level 3	5 x 5 ml	GM1378	26
Glutamine Calibrator	3 x 5 ml	GM1375	26
TXB Cardio Control Level 1	3 x 3 ml	TXB5125	26
TXB Cardio Control Level 2	3 x 3 ml	TXB5126	26
TXB Cardio Control Level 3	3 x 3 ml	TXB5127	26
TXB Cardio Calibrator Series	6 x 3 ml	TXB3132	26


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

CLINICAL CHEMISTRY

Precision Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin I

Drugs
Carbamazepine
Digoxin
Gentamicin
Lithium
Paracetamol
Phenobarbitone
Phenytoin
Salicylate
Theophylline
Tobramycin
Valproic Acid
Vancomycin

Immunoassay
α-Fetoprotein (AFP)
CEA
Cortisol
Folate
hCG
Prolactin
PSA (Total)
T3 (Free)
T3 (Total)
T4 (Free)
T4 (Total)
TSH
Vitamin B_{12}

Lipids
Apolipoprotein A-I
Apolipoprotein B
Cholesterol (HDL)
Cholesterol (Total)
NEFA
Triglycerides

Proteins
α-1-Acid Glycoprotein
α-1-Antitrypsin
Ceruloplasmin
Complement C3
Complement C4
CRP
Ferritin
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Prealbumin
Protein (Total)
Transferrin

Routine Chemistry
α-HBDH
Acid Phosphatase (Prostatic)
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
ALT (GPT)
Amylase
Amylase (Pancreatic)
AST (GOT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Chloride
Cholinesterase
Creatinine
D-3-Hydroxybutyrate
γGT
GLDH
Glucose
Iron
Iron (TIBC)
Iron (UIBC)
Lactate
Lactate Dehydrogenase (LDH)
LAP
Lipase
Magnesium
Osmolality
Phosphate (Inorganic)
Potassium
Sodium
Urea
Uric Acid (Urate)

Trace Metals
Copper
Zinc

Our Precision Chemistry Premium Plus control conveniently covers 86 analytes; including a wide range of proteins, lipids and immunoassays making it perfect for consolidation. As an unassayed, third party control it is suitable for use with a wide range of clinical chemistry platforms.

- Lyophilised for enhanced stability
- Human based serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Precision Chemistry Premium Plus Level 2	20 x 5 ml	UN1557
Precision Chemistry Premium Plus Level 3	20 x 5 ml	UE1558

Liquid Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin T

Drugs
Amikacin
Caffeine
Carbamazepine
Digoxin
Ethanol
Gentamicin
Lithium
Paracetamol
Phenobarbitone
Phenytoin
Salicylate
Theophylline
Valproic Acid
Vancomycin

Electrophoresis
α-1-Globulin
α-2-Globulin
Albumin
β-Globulin
γ-Globulin

Immunoassay
α-Fetoprotein (AFP)
CEA
Cortisol
DHEA Sulphate
Folate
FSH
Growth Hormone (GH)
hCG
Luteinising Hormone (LH)
Progesterone
Prolactin
Testosterone
T Uptake
T3 (Free)
T3 (Total)
T4 (Free)
T4 (Total)
TSH
Vitamin B_{12}

Lipids
Apolipoprotein A-1
Apolipoprotein B
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Lipoprotein (a)
Triglycerides

Proteins
α-1-Acid Glycoprotein
α-1-Antitrypsin
β-2-Microglobulin
Ceruloplasmin
Complement C3
Complement C4
CRP
Ferritin
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Prealbumin
Protein (Total)
Transferrin

Routine Chemistry
α-HBDH
Acid Phosphatase (Prostatic)
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
ALT (GPT)
Amylase
Amylase (Pancreatic)
AST (GOT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Chloride
Cholinesterase
Creatinine
D-3-Hydroxybutyrate
γGT
GLDH
Glucose
Iron
Iron (TIBC)
Iron (UIBC)
Lactate
Lactate Dehydrogenase (LDH)
LAP
Lipase
Magnesium
Osmolality
Phosphate (Inorganic)
Potassium
Sodium
Urea
Uric Acid (Urate)

Trace Metals
Copper
Zinc

Comprising 101 analytes in total, the Acusera Liquid Chemistry Premium Plus control is one of the most comprehensive available. Our vast analyte menu allows complete consolidation, eliminating the need to purchase additional controls at extra expense. As an unassayed, third party control it is ideal for monitoring precision on a wide range of laboratory analysers. Presented in a convenient liquid format for ease-of-use, minimal preparation is required.

- Liquid frozen
- Human based serum
- High levels of CRP and other proteins eliminate the need for separate controls
- Stable to expiry date at -20°C to -70°C
- Open vial stability of up to 7 days at 2°C to 8°C
- Typical values provided for all analytes

Description	Size	Cat. No.
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071

CLINICAL CHEMISTRY

Assayed Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)

Drugs
Digoxin
Gentamicin
Lithium
Paracetamol
Salicylate
Theophylline
Tobramycin

Electrophoresis
α-1-Globulin
α-2-Globulin
Albumin
β-Globulin
γ-Globulin

Immunoassay
Cortisol
Folate
PSA (Total)
T3 (Total)
T4 (Free)
T4 (Total)
TSH
Vitamin B_{12}

Lipids
Apolipoprotein A-1
Apolipoprotein B
Cholesterol (HDL)
Cholesterol (Total)
NEFA
Triglycerides

Proteins
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Protein (Total)
Transferrin

Routine Chemistry
α-HBDH
Acid Phosphatase (Non-Prostatic)
Acid Phosphatase (Prostatic)
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
ALT (GPT)
Amylase
Amylase (Pancreatic)
AST (GOT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Chloride
Cholinesterase
Creatinine
D-3-Hydroxybutyrate
γGT
GLDH
Glucose
Iron
Iron (TIBC)
Lactate
Lactate Dehydrogenase (LDH)
LAP
Lipase (Colorimetric)
Lipase (Turbidimetric)
Magnesium
Osmolality
Phosphate (Inorganic)
Potassium
Sodium
Urea
Uric Acid (Urate)

Trace Metals
Copper
Zinc

One of our most popular controls, the Acusera Assayed Chemistry Premium Plus Control, combines a comprehensive 69 analytes in a single vial for maximum efficiency. As a true third party control, assayed instrument, method and temperature specific target values are provided for an extensive range of clinical chemistry analysers, reducing the need to assign values in-house. Also provided are electrophoresis targets as a % breakdown of total protein.

- Lyophilised for enhanced stability
- Human based serum
- Typical Osmolality values: Level 2 is 300 mOsm/kg, Level 3 is 370 mOsm/kg
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Assayed Chemistry Premium Plus Level 2	20 x 5 ml	HN1530
Assayed Chemistry Premium Plus Level 3	20 x 5 ml	HE1532
Assayed Chemistry Premium Plus Level 2 & 3	2 x 5 x 5 ml	HS2611

Liquid Assayed Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin T

Drugs
Amikacin
Caffeine
Carbamazepine
Digoxin
Ethanol
Gentamicin
Lithium
Paracetamol
Phenobarbitone
Phenytoin
Salicylate
Theophylline
Valproic Acid
Vancomycin

Electrophoresis
α-1-Globulin
α-2-Globulin
Albumin
β-Globulin
γ-Globulin

Immunoassay
α-Fetoprotein (AFP)
CEA
Cortisol
DHEA Sulphate
Folate
FSH
hCG
Luteinising Hormone (LH)
Progesterone
Prolactin
PSA (Total)
T Uptake
T3 (Free)
T3 (Total)
T4 (Free)
T4 (Total)
Testosterone
TSH
Vitamin B_{12}

Lipids
Apolipoprotein A-1
Apolipoprotein B
Cholesterol (HDL)
Cholesterol (LDL)
Cholesterol (Total)
Lipoprotein (a)
Triglycerides

Proteins
α-1- Acid Glycoprotein
α-1-Antitrypsin
β-2-Microglobulin
Ceruloplasmin
Complement C3
Complement C4
CRP
Ferritin
Haptoglobin
Immunoglobulin A (IgA)
Immunoglobulin E (IgE)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Prealbumin
Protein (Total)
Transferrin

Routine Chemistry
α-HBDH
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
ALT (GPT)
Amylase
Amylase (Pancreatic)
AST (GOT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Chloride
Cholinesterase
Creatinine
D-3-Hydroxybutyrate
γGT
GLDH
Glucose
Iron
Iron (TIBC)
Lactate
Lactate Dehydrogenase (LDH)
LAP
Lipase
Magnesium
Osmolality
Phosphate (Inorganic)
Potassium
Sodium
Urea
Uric Acid (Urate)

Trace Metals
Copper
Zinc

Uniquely combining up to 99 analytes including; routine chemistry, immunoassays, lipids, therapeutic drugs, proteins and cardiac markers in a single vial, laboratories can experience effective consolidation and significant cost savings. The presence of CRP and other proteins at elevated levels will not only ensure accurate instrument performance at key decision levels but further reduce the number of individual controls required. As a true third party control, assayed target values are provided for most major instruments.

- Liquid frozen
- Human based serum
- Assayed instrument specific target values and ranges
- High levels of CRP and other proteins eliminate the need for multiple controls
- Stable to expiry when stored at -20°C to -70°C
- Open vial stability of up to 7 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid Assayed Chemistry Premium Plus Level 1	12 x 5 ml	LAL4213
Liquid Assayed Chemistry Premium Plus Level 2	12 x 5 ml	LAN4214
Liquid Assayed Chemistry Premium Plus Level 3	12 x 5 ml	LAE4215

CLINICAL CHEMISTRY

Bovine Chemistry Assayed Control

Analytes

Cardiac
CK (Total)

Drugs
Lithium

Immunoassay
Cortisol
PSA (Total)
T3 (Total)
T4 (Free)
T4 (Total)
Vitamin B_{12}

Lipids
Cholesterol
NEFA
Triglycerides

Proteins
Protein (Total)

Routine Chemistry
α-HBDH
Acid Phosphatase (Prostatic)
Acid Phosphatase (Non-Prostatic)
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
ALT (GPT)
Amylase
AST (GOT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Chloride
Creatinine
D-3-Hydroxybutyrate
γGT
GLDH
Glucose
Iron
Iron (TIBC)
Lactate
Lactate Dehydrogenase (LDH)
Lipase
Magnesium
Osmolality
Phosphate (Inorganic)
Potassium
Sodium
Urea
Uric Acid (Urate)

Trace Metals
Copper
Zinc

Designed for use in the routine monitoring of accuracy and precision, this comprehensive bovine based, assayed control provides method, instrument and temperature specific values for a unique combination of 46 analytes. Due to its bovine serum matrix and inclusion of common veterinary markers; NEFA, Bile Acids, Lactate and D-3 Hydroxybutyrate, the Acusera Bovine Chemistry Assayed Control delivers a cost effective solution especially suited to veterinary laboratories.

- Lyophilised for enhanced stability
- Bovine based serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Bovine Chemistry Assayed Level 1	20 x 5 ml	AL1027
Bovine Chemistry Assayed Level 2	20 x 5 ml	AN1026
Bovine Chemistry Assayed Level 3	20 x 5 ml	AE1032

Clinical Chemistry Calibration Serum

Analytes			
Cardiac	**Routine Chemistry**	Bilirubin (Total)	Lipase
CK (Total)	α-HBDH	Calcium	Magnesium
	Acid Phosphatase (Non-Prostatic)	Chloride	Osmolality
Drugs	Acid Phosphatase (Prostatic)	Cholinesterase	Phosphate (Inorganic)
Lithium	Acid Phosphatase (Total)	Creatinine	Potassium
	Albumin	D-3-Hydroxybutyrate	Sodium
Lipids	Alkaline Phosphatase (ALP)	γGT	Urea
Cholesterol	ALT (GPT)	GLDH	Uric Acid (Urate)
Triglycerides	Amylase (Pancreatic)	Glucose	
	Amylase (Total)	Iron	**Trace Metals**
Proteins	AST (GOT)	Iron (TIBC)	Copper
Protein (Total)	Bicarbonate	Lactate	Zinc
	Bile Acids	Lactate Dehydrogenase (LDH)	
	Bilirubin (Direct)	LAP	

Comprising 41 analytes in a single vial, this multi-analyte, third party calibrator is designed for use with a wide range of clinical chemistry platforms. Assayed, instrument, method and temperature specific values are supplied, ensuring accurate and reliable instrument calibration.

- Lyophilised for enhanced stability
- Human based serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Clinical Chemistry Calibration Serum Level 2	20 x 5 ml	CAL2350
Clinical Chemistry Calibration Serum Level 3	20 x 5 ml	CAL2351

Ammonia Ethanol Control

Analytes	
Ammonia	Ethanol

This dedicated Ammonia/Ethanol control comes in a highly convenient, liquid ready-to-use format ensuring no preparation is required. As a true third party control, assayed target values are provided, ensuring unbiased performance assessment while eliminating the need for in-house value assignment.

- Liquid ready-to-use
- Aqueous material
- Stable to expiry date at 2°C to 8°C
- Open vial stability of up to 30 days at 2°C to 8°C

Description	Size	Cat. No.
Ammonia Ethanol Control Level 1	6 x 2 ml	EA1366
Ammonia Ethanol Control Level 2	6 x 2 ml	EA1367
Ammonia Ethanol Control Level 3	6 x 2 ml	EA1368

CLINICAL CHEMISTRY

Aldolase Control and Calibrator

This dedicated Aldolase control is specifically designed to monitor the accuracy and precision of Aldolase on a wide range of chemistry analysers. Supplied in a lyophilised format for enhanced stability, this control and calibrator set comes in a convenient 1ml vial.

- Lyophilised for enhanced stability
- Human based serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 5 days at 2°C to 8°C

Description	Size	Cat. No.
Aldolase Calibrator	3 x 1 ml	AD5000
Aldolase Control Level 2	3 x 1 ml	AD5001
Aldolase Control Level 3	3 x 1 ml	AD5002

Bilirubin Elevated Serum

Analytes	
Bilirubin (Direct)	Bilirubin (Total)

Acusera Bilirubin Elevated Serum is a bovine based serum designed for use in the monitoring of accuracy and precision. This product is suitable for monitoring paediatric bilirubin levels and contains method specific target values and ranges.

- Lyophilised for enhanced stability
- Bovine serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C

Description	Size	Cat. No.
Bilirubin Elevated Serum	10 x 3 ml	BE454

Glycerol Control

Dedicated Glycerol control for use in the routine monitoring of accuracy and precision. Supplied in a lyophilised format for enhanced stability, this control comes with assayed target values for most major chemistry analysers.

- Lyophilised for enhanced stability
- Human based serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.
Glycerol Control	3 x 5 ml	GY1369

Multi Control and Calibrator

Analytes			
Ammonia	Glucose	Glutamate	Lactate

This multi-analyte control and calibrator is designed for use in the routine monitoring of accuracy and precision. Supplied in a convenient liquid ready-to-use format no preparation is required.

- Liquid ready-to-use
- Human based serum
- Stable to expiry date at 2°C to 8°C
- Once opened stable to expiry date at 2°C to 8°C

Description	Size	Cat. No.
Multi Calibrator	3 x 2 ml	MC1382
Multi Control Level 1	5 x 2 ml	MC1379
Multi Control Level 2	5 x 2 ml	MC1380
Multi Control Level 3	5 x 2 ml	MC1381

*FOR BIOTECHNOLOGY INDUSTRIAL USE.
Not for use in diagnostic procedures.

Glutamine Control and Calibrator

This dedicated Glutamine control is supplied in a lyophilised format for enhanced stability. Manufactured using 100% human material, it is designed to mimic patient samples, ensuring accurate test system performance.

- Lyophilised for enhanced stability
- 100% human material
- Stable to expiry at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.
Glutamine Control Level 1	5 x 5 ml	GM1376
Glutamine Control Level 2	5 x 5 ml	GM1377
Glutamine Control Level 3	5 x 5 ml	GM1378
Glutamine Calibrator	3 x 5 ml	GM1375

*FOR BIOTECHNOLOGY INDUSTRIAL USE.
Not for use in diagnostic procedures.

TXB Cardio Control and Calibrator Series

Dedicated control and calibrator series for use on clinical chemistry systems to monitor the levels of the urinary metabolite 11dhTXB$_2$.

- Liquid ready-to-use
- 100% human material
- Stable to expiry at 2°C to 8°C
- Open vial stability of 28 days at 2°C to 8°C

Description	Size	Cat. No.
TXB Cardio Control Level 1	3 x 3 ml	TBX5125
TXB Cardio Control Level 2	3 x 3 ml	TBX5126
TXB Cardio Control Level 3	3 x 3 ml	TBX5127
TXB Cardio Calibrator Series	3 x 3 ml	TBX3132

COAGULATION AND HAEMATOLOGY CONTROLS

Our true third party Coagulation and Haematology Controls have been designed to deliver an unbiased assessment of analytical performance, while providing a matrix similar to that of the patient. These multi-analyte controls cover the full clinical range in a single control, enabling you to consolidate your test menu, saving both time and money.

COAGULATION AND HAEMATOLOGY

Coagulation and Haematology Product Range			
Product Description	Size	Cat. No.	Page No.
Coagulation Control Level 1	12 x 1 ml	CG5021	29
Coagulation Control Level 2	12 x 1 ml	CG5022	29
Coagulation Control Level 3	12 x 1 ml	CG5023	29
Haematology Control	3 x 2 x 4.5 ml	HM5162	30


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

COAGULATION AND HAEMATOLOGY

Coagulation Control

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

Our Coagulation Control combines 16 analytes in total, delivering a comprehensive, third party solution for laboratories carrying out both routine and specialised coagulation tests. Comprising a variety of factor assays and basic coagulation tests, the number of individual controls required is reduced, saving costs and time. Assayed method and instrument specific target values & ranges are provided, eliminating the need to spend time assigning target values in-house.

- Lyophilised for enhanced stability
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 24 hours at 2°C to 8°C

Description	Size	Cat. No.
Coagulation Control Level 1	12 x 1 ml	CG5021
Coagulation Control Level 2	12 x 1 ml	CG5022
Coagulation Control Level 3	12 x 1 ml	CG5023

Haematology Control

Analytes	
BASO-X	Mean Platelet Volume (MPV)
BASO -Y	Monocytes (MONO)
Basophils (BASO)*	% Monocytes (% MONO)
% Basophils (% BASO)	Neutrophils (NEUT)
DIFF-X	% Neutrophils (% NEUT)
DIFF-Y	Nucleated Red Blood Cells (NRBC)*
Eosinophils (EOS)	Nucleated Red Blood Cells X (NRBC-X)
% Eosinophils (%EOS)	Nucleated Red Blood Cells Y (NRBC-Y)
FSC-X	% Nucleated Red Blood Cells (%NRBC)
Haematocrit (HCT)	Platelet Distribution Width (PDW)
Haemoglobin (HGB)	Platelet Large Cell Ratio (P-LCR)
Haematopoietic Progenitor Cell (HPC)	Plateletcrit (PCT)
IMIDC	Platelets (PLT)
IMIRF	Platelets Optical Count (PLT-O)
Immature Granulocytes (IG)	Red Blood Cells (RBC)
% Immature Granulocytes (%IG)	Red Blood Cell X (RBC-X)
Immature Myeloid Information (IMI)	Red Blood Cell Y (RBC-Y)
Immature Platelet Fraction (IPF)	Red Blood Cell Distribution Width CV (RDW-CV)
Lymphocytes (LYMPH)	Red Blood Cell Distribution Width SD (RDW-SD)
% Lymphocytes (% LYMPH)	Red Blood Cells Optical Count (RBC-O)
Mean Corpuscular Haemoglobin (MCH)	White Blood Cells (WBC)
Mean Corpuscular Haemoglobin Concentration (MCHC)	White Blood Cells Differential (WBC-D)
Mean Corpuscular Volume (MCV)	

The Acusera Haematology Control combines an impressive 45 analytes, covering the full blood profile in a convenient liquid ready-to-use format, ultimately increasing productivity and reducing the need for multiple controls. Providing a true third party solution for 5-part WBC differential Sysmex Haematology analysers, ensuring unbiased performance assessment.

- Liquid ready-to-use
- 100% Human whole blood
- Barcoded labels enabling quick and easy sample recognition
- Stable for 70 days at 2°C to 8°C
- Open vial stability of 14 days at 2°C to 8°C

Description	Size	Cat. No.
Haematology Control Tri-Level	3 x 2 x 4.5 ml	HM5162

*This product may not be suitable for the control of Basophils and NRBC on some Sysmex models.

DIABETES AND WHOLE BLOOD CONTROLS

This Acusera Diabetes range provides a true third party solution for key tests used in the diagnosis and monitoring of diabetes and haemoglobin variants. Designed for use on multiple platforms, an independent assessment of performance is guaranteed. An extended reconstituted stability of four weeks for many controls will not only keep waste to a minimum but will help to reduce costs. As with all Acusera controls, laboratories can expect to experience reduced preparation time and costs without compromising on consistency or quality.

Diabetes and Whole Blood Product Range			
Product Description	Size	Cat. No.	Page No.
HbA1c Control Set Level 1 and 2	2 x 2 x 0.5 ml	HA5072	33
HbA1c Calibrator Series	5 x 2 ml, 1 x 8 ml	HA3444	33
Liquid HbA1c Control Level 1	6 x 1 ml	HA10224	33
Liquid HbA1c Control Level 2	6 x 1 ml	HA10225	33
Liquid HbA1c Control Set	2 x 2 x 0.5 ml	HA10155	33
G-6PDH Control Deficient	6 x 0.5 ml	PD2617	33
G-6PDH Control Normal	6 x 0.5 ml	PD2618	33
Fructosamine Control Level 1	3 x 1 ml	FR2994	34
Fructosamine Control Level 3	3 x 1 ml	FR2996	34
Fructosamine Calibrator	3 x 1 ml	FR2993	34
Haemoglobin F and A2 Control	2 x 2 x 0.2 ml	HA5083	34
Adiponectin Control Level 2	3 x 1 ml	AO2815	34
Adiponectin Control Level 3	3 x 1 ml	AO2816	34
Adiponectin Calibrator	6 x 1 ml	AO8156	34


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

DIABETES AND WHOLE BLOOD

HbA1c Control and Calibrator Series

The Acusera HbA1c control is designed for use in the quality control of HbA1c assays. Assayed instrument and method specific target values and ranges are provided for all major systems and methods including HPLC. A reconstituted stability of 4 weeks keeps waste to a minimum and helps to reduce costs.

Control
- Lyophilised for enhanced stability
- 100% human whole blood
- Treated in the same manner as a patient sample *(requires pre-treatment)*
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 28 days at 2°C to 8°C

Calibrator
- Liquid ready-to-use
- 100% human whole blood
- Treated in the same manner as a patient sample *(requires pre-treatment)*
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 28 days at 2°C to 8°C

Description	Size	Cat. No.
HbA1c Control Set Level 1 and 2	2 x 2 x 0.5 ml	HA5072
HbA1c Calibrator Series	5 x 2 ml, 1 x 8 ml	HA3444

Liquid HbA1c Control

Delivering an assayed QC solution for HbA1c testing, our Acusera Liquid HbA1c control offers a liquid ready-to-use format ideal for both laboratory and POCT testing. Employing our Liquid HbA1c Control in your laboratory could reduce preparation time, whilst the 30 day stability will ultimately minimise waste and costs.

- Liquid ready-to-use
- Human based whole blood
- Suitable for use in POCT
- Treated in the same manner as a patient sample *(requires pre-treatment)*
- Assayed target values are supplied for HPLC
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid HbA1c Control Level 1	6 x 1 ml	HA10224
Liquid HbA1c Control Level 2	6 x 1 ml	HA10225
Liquid HbA1c Control Set	2 x 2 x 0.5 ml	HA10155

G-6-PDH (Glucose-6-Phosphate Dehydrogenase) Control

The Randox Acusera G-6-PDH control is designed specifically to monitor the accuracy and precision of G-6-PDH assays. Two levels of control are available covering both normal and deficient concentration ranges.

- Lyophilised for enhanced stability
- Human based whole blood
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C

Description	Size	Cat. No.
G-6-PDH Control Deficient	6 x 0.5 ml	PD2617
G-6-PDH Control Normal	6 x 0.5 ml	PD2618

Fructosamine Control and Calibrator

The Acusera Fructosamine control is specifically designed to monitor the accuracy and precision of fructosamine assays. An extended reconstituted stability of 28 days at 2°C – 8°C keeps waste to a minimum and helps to reduce costs.

- **Lyophilised for enhanced stability**
- **Human based serum**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 28 days at 2°C to 8°C**

Description	Size	Cat. No.
Fructosamine Control Level 1	3 x 1 ml	FR2994
Fructosamine Control Level 3	3 x 1 ml	FR2996
Fructosamine Calibrator	3 x 1 ml	FR2993

Haemoglobin F & A2 Control

Analytes	
Level 1	Level 2
Haemoglobin A2 (HbA2) Haemoglobin F (HbF)	Haemoglobin A2 (HbA2) Haemoglobin F (HbF) Haemoglobin S (HbS)

The Randox Acusera Haemoglobin F and A2 control is specifically designed to monitor the precision of Haemoglobin variants associated with Thalassaemia. As an unassayed, third party control it is suitable for use with all major systems and methods including, HPLC, Immunoassay and Glycation Specific. The level 2 control can also be used as a position marker for Haemoglobin S elution time on HPLC assays.

- **Lyophilised for enhanced stability**
- **100% human whole blood**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of up to 30 days at 2°C to 8°C**

Description	Size	Cat. No.
Haemoglobin F & A2 Control	2 x 2 x 0.2 ml	HA5083

Adiponectin Control and Calibrator

Designed specifically for use with the Randox Adiponectin assay, our control and calibrator will help to ensure accurate test system performance. Supplied in a convenient liquid ready-to-use format, no preparation is required.

- **Liquid ready-to-use**
- **Human based serum**
- **Stable to expiry date at 2°C to 8°C**
- **Once opened stable to expiry date at 2°C to 8°C**

Description	Size	Cat. No.
Adiponectin Control Level 2	3 x 1 ml	AO2815
Adiponectin Control Level 3	3 x 1 ml	AO2816
Adiponectin Calibrator	6 x 1 ml	AO8156

IMMUNOASSAY CONTROLS

As one of the most comprehensive control ranges on the market, the Acusera Immunoassay offering from Randox will streamline QC in any laboratory. With multiple immunoassay controls to choose from, combining up to 54 analytes in a single vial, choice and flexibility is guaranteed. Our unique combination of analytes enables complete test menu consolidation, ultimately reducing costs without compromising on quality or performance. All controls in our Immunoassay range are manufactured from 100% human serum. This matrix ensures the test system will react to the control in the same manner as a patient sample, therefore meeting ISO 15189:2012 requirements while also eliminating shifts in QC target values when reagent batch is changed.

Immunoassay Product Range			
Product Description	Size	Cat. No.	Page No.
Liquid Immunoassay Premium Level 1	12 x 5 ml	LIA3105	37
Liquid Immunoassay Premium Level 2	12 x 5 ml	LIA3106	37
Liquid Immunoassay Premium Level 3	12 x 5 ml	LIA3107	37
Liquid Immunoassay Premium Tri-Level	4 x 3 x 5 ml	LIA3108	37
PTH Control Level 1	3 x 3 ml	PTH10110	37
PTH Control Level 2	3 x 3 ml	PTH10111	37
PTH Control Level 3	3 x 3 ml	PTH10112	37
Immunoassay Premium Level 1	12 x 5 ml	IA2638	38
Immunoassay Premium Level 2	12 x 5 ml	IA2639	38
Immunoassay Premium Level 3	12 x 5 ml	IA2640	38
Immunoassay Premium Tri-Level	4 x 3 x 5 ml	IA2633	38
Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109	39
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110	39
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111	39
Immunoassay Premium Plus Tri-Level	4 x 3 x 5 ml	IA3112	39
Immunoassay Speciality I Level 1	5 x 2 ml	IAS3113	40
Immunoassay Speciality I Level 2	5 x 2 ml	IAS3114	40
Immunoassay Speciality I Level 3	5 x 2 ml	IAS3115	40
Immunoassay Speciality II Level 1	5 x 1 ml	IAS3117	40
Immunoassay Speciality II Level 2	5 x 1 ml	IAS3118	40
Immunoassay Speciality II Level 3	5 x 1 ml	IAS3119	40
Tumour Marker Control Level 2	3 x 2 ml	TU5002	41
Tumour Marker Control Level 3	3 x 2 ml	TU5003	41
Liquid Tumour Marker Control Level 1	6 x 3 ml	TU5085	41
Liquid Tumour Marker Control Level 2	6 x 3 ml	TU5086	41
Liquid Tumour Marker Control Level 3	6 x 3 ml	TU5087	41
Maternal Screening Control Level 1	3 x 1 ml	MSS5024	42
Maternal Screening Control Level 2	3 x 1 ml	MSS5025	42
Maternal Screening Control Level 3	3 x 1 ml	MSS5026	42


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

IMMUNOASSAY

Liquid Immunoassay Premium Control

Analytes			
17-OH-Progesterone	Ethosuximide	Paracetamol	T3 (Free)
α-Fetoprotein (AFP)	Ferritin	Phenobarbitone	T3 (Total)
Aldosterone	Folate	Phenytoin	T4 (Free)
Amikacin	FSH	Primidone	T4 (Total)
β-2-Microglobulin	Gentamicin	Progesterone	Testosterone
Carbamazepine	Growth Hormone (GH)	Prolactin	Theophylline
CEA	hCG	PSA (Free)	Tobramycin
Cortisol	Immunoglobulin E (IgE)	PSA (Total)	TSH
DHEA-Sulphate	Insulin	Salicylate	Valproic Acid
Digoxin	Luteinising Hormone (LH)	Sex Hormone Binding Globulin (SHBG)	Vancomycin
Estriol	Oestradiol	T Uptake	Vitamin B_{12}

The Liquid Immunoassay Premium Control has been designed for use in the routine monitoring of accuracy and precision of multiple instruments. Consolidating up to 44 analytes in a single vial, employing this control can reduce the number of controls required to cover your complete test menu, saving time and money. As a true third party control, assayed values are available for most immunoassay platforms and a wide range of analytes, including hormones, therapeutic drugs and vitamins.

- Liquid frozen
- 100% human serum
- Ferritin and Vitamin B_{12} levels suitable for Anaemia monitoring
- Stable to expiry date at -20°C to -70°C
- Open vial stability of up to 7 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid Immunoassay Premium Level 1	12 x 5 ml	LIA3105
Liquid Immunoassay Premium Level 2	12 x 5 ml	LIA3106
Liquid Immunoassay Premium Level 3	12 x 5 ml	LIA3107
Liquid Immunoassay Premium Tri-Level	4 x 3 x 5 ml	LIA3108

PTH Control

The Acusera PTH Control is an assayed, true third party control designed to complement our Immunoassay range, delivering an unbiased, independant assessment of analytical performance. With an open vial stability of 30 days, waste is kept to a minimum.

- Liquid frozen
- 100% human serum
- Assayed target values and ranges for a wide range of immunoassay systems
- Stable to expiry date at -20°C to -70°C
- Open vial stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
PTH Control Level 1	3 x 3 ml	PTH10110
PTH Control Level 2	3 x 3 ml	PTH10111
PTH Control Level 3	3 x 3 ml	PTH10112

Immunoassay Premium Control

Analytes			
17-OH-Progesterone	DHEA-Sulphate	Oestradiol	T3 (Total)
1-25-$(OH)_2$-Vitamin D	Digoxin	Paracetamol	T4 (Free)
25-OH-Vitamin D	Estriol	Phenobarbitone	T4 (Total)
α-Fetoprotein (AFP)	Ethosuximide	Phenytoin	Testosterone
ACTH+	Ferritin	Primidone	Testosterone (Free)
Aldosterone+	Folate	Progesterone	Theophylline
Amikacin	FSH	Prolactin	Thyroglobulin
Androstenedione	Gentamicin	PSA (Free)	Tobramycin
β-2-Microglobulin	Growth Hormone (GH)	PSA (Total)	TSH
C-Peptide	hCG	Salicylate	Valproic Acid
Carbamazepine	Immunoglobulin E (IgE)	Sex Hormone Binding Globulin (SHBG)	Vancomycin
CEA	Insulin	T Uptake	Vitamin B_{12}
Cortisol	Luteinising Hormone (LH)	T3 (Free)	

Efficiently combining 51 analytes in total, the Immunoassay Premium Control is designed to cover routine immunoassay testing in a single vial. The additional benefit of clinically relevant concentrations will not only ensure accurate performance at key decision levels, but will also eliminate the need for additional low/high controls at extra expense. As an assayed control, instrument specific target values and ranges are provided for up to 48 analytes, including fertility, thyroid & steroid hormones, kidney function tests, therapeutic drugs and vitamins, saving you time assigning these in-house. Manufactured using 100% human serum, this control is designed to directly mimic a patient sample, reducing costly shifts when reagent batch is changed.

- Lyophilised for enhanced stability
- 100% human serum
- Ferritin and Vitamin B_{12} levels suitable for Anaemia monitoring
- Ultra low TSH levels in the level 1 control
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C, or up to 28 days at -20°C

Description	Size	Cat. No.
Immunoassay Premium Level 1	12 x 5 ml	IA2638
Immunoassay Premium Level 2	12 x 5 ml	IA2639
Immunoassay Premium Level 3	12 x 5 ml	IA2640
Immunoassay Premium Tri-level	4 x 3 x 5 ml	IA2633

+Values may not be provided for all levels

IMMUNOASSAY

Immunoassay Premium Plus Control

Analytes			
17-OH-Progesterone	CEA	Luteinising Hormone (LH)	T3 (Total)
1-25-$(OH)_2$-Vitamin D	Cortisol	Oestradiol	T4 (Free)
25-OH-Vitamin D	DHEA-Sulphate	Paracetamol	T4 (Total)
α-Fetoprotein (AFP)	Digoxin	Phenobarbitone	Testosterone
ACTH+	Estriol	Phenytoin	Testosterone (Free)
Aldosterone+	Ethosuximide	Primidone	Theophylline
Amikacin	Ferritin	Progesterone	Thyroglobulin
Androstenedione	Folate	Prolactin	Tobramycin
β-2-Microglobulin	FSH	PSA (Free)	TSH
C-Peptide	Gentamicin	PSA (Total)	Valproic Acid
CA 15-3	Growth Hormone (GH)	Salicylate	Vancomycin
CA 19-9	hCG	Sex Hormone Binding Globulin (SHBG)	Vitamin B_{12}
CA 125	Immunoglobulin E (IgE)	T Uptake	
Carbamazepine	Insulin	T3 (Free)	

Impressively covering 54 analytes including tumour markers, therapeutic drugs and routine immunoassay tests, the Acusera Immunoassay Premium Plus control has been uniquely designed to eliminate the need for four or more controls, dramatically reducing costs and time. The added advantage of ultra low levels of Ferritin, Vitamin B_{12} and TSH will ensure accurate performance at key decision levels and further reduce the number of controls required. Assayed target values are supplied for 51 analytes in this true third party control. Manufactured using 100% human serum, this control is designed to directly mimic a patient sample, reducing costly shifts when reagent batch is changed.

- Lyophilised for enhanced stability
- 100% human serum
- Ferritin and Vitamin B_{12} levels suitable for Anaemia monitoring
- Ultra low TSH levels in the level 1 control
- Contains routinely run tumour markers: AFP / CA15-3 / CA19-9 / CA-125 / CEA / PSA / Free-PSA
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111
Immunoassay Premium Plus Tri-level	4 x 3 x 5 ml	IA3112

+Values may not be provided for all levels

Immunoassay Speciality I Control

Analytes			
1-25-$(OH)_2$-Vitamin D	Anti-Thyroperoxidase (Anti-TPO)	Insulin Like Growth Factor-1(IGF-1)	Procalcitonin
25-OH-Vitamin D	C-Peptide	Intact PTH (Parathyroid Hormone)	
Anti-Thyroglobulin (Anti-TG)	Insulin	Osteocalcin	

Covering 10 specialised analytes, the Acusera Immunoassay Speciality I control is designed to complement our standard immunoassay control, meeting the demands of today's modern laboratory. Assayed target values are supplied for all 10 analytes in this true third party control.

- Lyophilised for enhanced stability
- 100% human serum
- Assayed target values and ranges for a wide range of immunoassay systems
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 5 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Immunoassay Speciality I Level 1	5 x 2 ml	IAS3113
Immunoassay Speciality I Level 2	5 x 2 ml	IAS3114
Immunoassay Speciality I Level 3	5 x 2 ml	IAS3115

Immunoassay Speciality II Control

Analytes			
Calcitonin	Gastrin	Procalcitonin	Renin

Designed for the routine monitoring of more complex, specialised analytes, the Acusera Immunoassay Speciality II control complements our standard immunoassay controls. As a true third party control, assayed target values are supplied and unbiased performance assessment guaranteed.

- Lyophilised for enhanced stability
- 100% human serum
- Assayed target values and ranges for a wide range of immunoassay systems
- Stable to expiry date at 2°C to 8°C
- Reconstitutued stability of 5 days at 2°C to 8°C for Renin, 1 day at 2°C to 8°C for Procalcitonin and 8 hours at 2°C to 8°C for Gastrin and Calcitonin. Stable for 28 days at -20°C

Description	Size	Cat. No.
Immunoassay Speciality II Level 1	5 x 1 ml	IAS3117
Immunoassay Speciality II Level 2	5 x 1 ml	IAS3118
Immunoassay Speciality II Level 3	5 x 1 ml	IAS3119

IMMUNOASSAY

Tumour Marker Control

Analytes			
α-Fetoprotein (AFP)	CA 72-4	CYFRA 21-1	PSA (Free)
β-2-Microglobulin	CA 125	Ferritin	PSA (Total)
CA 15-3	Calcitonin	hCG	Thyroglobulin
CA 19-9	CEA	NSE	

The multi-analyte Acusera Tumour Marker control has been designed for use in the daily monitoring of 15 routine and specialised tumour markers. This true third party control is provided with assayed target values and ranges for all analytes, ensuring an unbiased assessment of performance for a wide range of immunoassay instruments.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 14 days at 2°C to 8°C

Description	Size	Cat. No.
Tumour Marker Control Level 2	3 x 2 ml	TU5002
Tumour Marker Control Level 3	3 x 2 ml	TU5003

Liquid Tumour Marker Control

Analytes			
α-Fetoprotein (AFP)	CA 27-29	CYFRA 21-1	PSA (Total)
β-2-Microglobulin	CA 72-4	Ferritin	Thyroglobulin
CA 15-3	CA 125	NSE	Total β-hCG
CA 19-9	CEA	PSA (Free)	

The multi-analyte Acusera Liquid Tumour Marker control has been designed for use in the daily monitoring of 15 routine and esoteric tumour markers. Conveniently supplied in a liquid ready-to-use format, no preparation is required, saving precious laboratory time. This true third party control is provided with assayed target values and ranges for all analytes, ensuring an unbiased assessment of performance for a wide range of chemistry and immunoassay instruments.

- Liquid ready-to-use
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid Tumour Marker Control Level 1	6 x 3 ml	TU5085
Liquid Tumour Marker Control Level 2	6 x 3 ml	TU5086
Liquid Tumour Marker Control Level 3	6 x 3 ml	TU5087

Maternal Screening Control

Analytes			
α-Fetoprotein (AFP)	Inhibin A	Total β-hCG	Unconjugated Oestriol
Free β-hCG	PAPP-A		

Delivering an assayed, multi-analyte QC solution for laboratories carrying out maternal screening, the Acusera Maternal Screening control covers a unique combination of analytes, ensuring suitability for both First and Second Trimester screening of Down's syndrome & Spina Bifida. By employing our Maternal Screening Control you could replace up to three competitor controls, ultimately improving efficiency, while reducing costs and preparation time.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.
Maternal Screening Control Level 1	3 x 1 ml	MSS5024
Maternal Screening Control Level 2	3 x 1 ml	MSS5025
Maternal Screening Control Level 3	3 x 1 ml	MSS5026

IMMUNOLOGY/ PROTEIN CONTROLS

The Acusera range of Immunology/Protein Controls has been designed to be both cost effective and convenient. Requiring no preparation or thawing, the liquid ready-to-use format will increase productivity and efficiency in even the most demanding laboratories. Furthermore, an open vial stability of thirty days for all analytes, with no exceptions, will reduce costs and keep waste to a minimum.*

** Our Acusera CSF Control comes in a lyophilised format and requires reconstitution. It has a 14 day reconstituted stability.*

Immunology/Protein Product Range			
Product Description	Size	Cat. No.	Page No.
Specific Protein Control Level 1	3 x 1 ml	PS2682	45
Specific Protein Control Level 2	3 x 1 ml	PS2683	45
Specific Protein Control Level 3	3 x 1 ml	PS2684	45
Specific Protein Control Level 1	6 x 3 ml	PS10221	45
Specific Protein Control Level 2	6 x 3 ml	PS10222	45
Specific Protein Control Level 3	6 x 3 ml	PS10223	45
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2691	45
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2692	46
Liquid CRP Control Level 2	10 x 1 ml	CP2480	46
Liquid CRP Control Level 3	10 x 1 ml	CP2481	46
High Sensitivity CRP Control Level 1	10 x 1 ml	CP2476	46
High Sensitivity CRP Control Level 2	10 x 1 ml	CP2477	46
CRP Calibrator	3 x 1 ml	CP2179	46
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478	46
CRP Calibrator Series	6 x 2 ml	CP2479	46
CRP Full Range Calibrator	6 x 1 ml	CP2499	46
Canine CRP Control Level 2	3 x 1 ml	CP2803	46
Canine CRP Control Level 3	3 x 1 ml	CP2804	46
CSF Control Level 2	10 x 3 ml	CF1500	47
CSF Control Level 3	10 x 3 ml	CF1501	47
Liquid CSF Control Level 1	10 x 3 ml	CF10138	47
Liquid CSF Control Level 2	10 x 3 ml	CF10139	47
ASO Standard	5 x 1 ml	LO2306	47
β-2-Microglobulin Calibrator	3 x 1 ml	BM1362	48
Cystatin C Control Level 2	3 x 2 ml	CYS5019	48
Cystatin C Control Level 3	3 x 2 ml	CYS5020	48
Cystatin C Calibrator	5 x 2 ml	CYS2699	48
Immunoglobulin Liquid Protein Calibrator	3 x 1 ml	IT3861	48
IgE Calibrator Series	6 x 1 ml	IE2492	49
High Sensitivity IgG Calibrator	3 x 1 ml	IT3899	49
Rheumatoid Factor Calibrator Series	5 x 1 ml	RF2301	49
sTfR Control Level 1 & 2	3 x 2 x 1 ml	TF10162	49
sTfR Calibrator	6 x 1 ml	TF10161	49


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

IMMUNOLOGY/PROTEIN

Specific Protein Control

Analytes			
α-1-Acid Glycoprotein	β-2-Microglobulin	Immunoglobulin A (IgA)	Prealbumin
α-1-Antitrypsin	Ceruloplasmin	Immunoglobulin E (IgE)	Protein (Total)
α-2-Macroglobulin	Complement C3	Immunoglobulin G (IgG)	Retinol Binding Protein (RBP)
α-Fetoprotein (AFP)	Complement C4	Immunoglobulin M (IgM)	Rheumatoid Factor (RF)
Albumin	CRP	Kappa Light Chain	Transferrin
Anti-Streptolysin O (ASO)	Ferritin	Lambda Light Chain	
Anti-Thrombin III (AT III)	Haptoglobin	Lambda Light Chain (Free)+	

Covering a unique combination of 26 serum proteins, including; Total Kappa and Lambda Light Chains, the Acusera Specific Protein Control could replace as many as three separate controls. Supplied in a user-friendly liquid ready-to-use format with a 30 day open vial stability for all analytes, waste and preparation time are kept to a minimum. Manufactured using 100% human serum, this control is designed to directly mimic a patient sample, reducing costly shifts when reagent batch is changed and ensuring accurate patient testing. Assayed target values and ranges are provided for this true third party control.

- Liquid ready-to-use
- 100% human serum
- Contains both Total Kappa and Lambda Light Chains
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
Specific Protein Control Level 1	3 x 1 ml	PS2682
Specific Protein Control Level 2	3 x 1 ml	PS2683
Specific Protein Control Level 3	3 x 1 ml	PS2684
Specific Protein Control Level 1	6 x 3 ml	PS10221
Specific Protein Control Level 2	6 x 3 ml	PS10222
Specific Protein Control Level 3	6 x 3 ml	PS10223

+Not for use in USA.

Specific Protein Calibrator

Analytes			
Anti-Streptolysin O (ASO)	CRP	Immunoglobulin A (IgA)	Prealbumin
Ceruloplasmin	Ferritin	Immunoglobulin G (IgG)	Rheumatoid Factor (RF)
Complement C3	Haptoglobin	Immunoglobulin M (IgM)	Transferrin
Complement C4			

Multi-analyte calibrator designed for use in the routine calibration of 13 serum proteins including Ferritin, IgA, IgG and IgM. Supplied in a convenient, liquid ready-to-use format with a working stability of 30 days, waste and time are kept to a minimum.

- Liquid ready-to-use
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2691

FOR USE WITH SAMPLES THAT **DO NOT** REQUIRE PRE-DILUTION

Specific Protein Calibrator - Requires pre-dilution

Analytes			
α-1-Acid Glycoprotein α-1-Antitrypsin	Immunoglobulin A (IgA)	Immunoglobulin G (IgG)	Immunoglobulin M (IgM)

Multi-analyte calibrator designed for use in the routine calibration of 5 serum proteins. Supplied in a convenient, liquid ready-to-use format with a working stability of 30 days, waste and time are kept to a minimum.

- **Liquid ready-to-use**
- **100% human serum**
- **Stable to expiry date at 2°C to 8°C**
- **Open vial stability of 30 days at 2°C to 8°C**

Description	Size	Cat. No.
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2692

FOR USE WITH SAMPLES THAT REQUIRE PRE-DILUTION

CRP Controls and Calibrator

A choice of two dedicated CRP controls is available, covering elevated and highly sensitive levels of CRP. As true third party controls, assayed target values are provided, ensuring unbiased performance assessment with any instrument or method. Conveniently supplied in a liquid ready-to-use format, no preparation is required.

- **Liquid ready-to-use**
- **100% human material**
- **Stable to expiry date at 2°C to 8°C**
- **Open vial stability of 30 days at 2°C to 8°C**

Description	Size	Cat. No.
Liquid CRP Control Level 2	10 x 1 ml	CP2480
Liquid CRP Control Level 3	10 x 1 ml	CP2481
High Sensitivity CRP Control Level 1	10 x 1 ml	CP2476
High Sensitivity CRP Control Level 2	10 x 1 ml	CP2477
CRP Calibrator	3 x 1 ml	CP2179
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478
CRP Calibrator Series	6 x 2 ml	CP2479
CRP Full Range Calibrator	6 x 1 ml	CP2499

Canine CRP Control

Dedicated CRP control uniquely designed for use in the quality control of the Randox Canine CRP assay. Supplied in a convenient, liquid ready-to-use format and stable to expiry date, waste and preparation time is kept to an absolute minimum.

- **Liquid ready-to-use**
- **Human CRP in a stabilised protein matrix**
- **Stable to expiry date at 2°C to 8°C**
- **Once opened stable to expiry date at 2°C to 8°C**

Description	Size	Cat. No.
Canine CRP Control Level 2	3 x 1 ml	CP2803
Canine CRP Control Level 3	3 x 1 ml	CP2804

IMMUNOLOGY/PROTEIN

CSF Control

Analytes			
α-1-Globulin (Electrophoresis)	β-Globulin (Electrophoresis)	Glucose	Protein (Total)
α-2-Globulin (Electrophoresis)	Chloride	Immunoglobulin G (IgG)	Sodium
Albumin (Electrophoresis)	γ-Globulin (Electrophoresis)	Lactate	

Multi-analyte CSF control designed for use in the routine monitoring of both accuracy and precision. As a true third party control, it is compatible for use with a wide range of clinical analysers. Assayed target values are provided, eliminating the need to assign in-house.

- Lyophilised for enhanced stability
- Human based material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 14 days at 2°C to 8°C

Description	Size	Cat. No.
CSF Control Level 2	10 x 3 ml	CF1500
CSF Control Level 3	10 x 3 ml	CF1501

Liquid CSF Control

Analytes			
α-1-Globulin (Electrophoresis)	Chloride	High Sensitivity Immunoglobulin G (hsIgG)	Protein (Total)
α-2-Globulin (Electrophoresis)	γ-Globulin (Electrophoresis)	High Sensitivity Immunoglobulin M (hsIgM)*	Sodium
Albumin (Electrophoresis)	Glucose	Lactate	
β-Globulin (Electrophoresis)	High Sensitivity Immunoglobulin A (hsIgA)*	Microalbumin	

Providing a true third party solution for the measurement of 14 analytes in Cerebrospinal Fluid (CSF), the new Acusera Liquid CSF Control is designed to deliver an unbiased, independent assessment of analytical performance, helping to ensure accurate and reliable patient testing. With an extended open vial stability of 30 days at 2°C to 8°C, this control will reduce waste, while remaining easy and convenient to use. Two distinct levels are available covering clinically significant ranges.

- Liquid ready-to-use
- Human based material
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid CSF Control Level 1	10 x 3 ml	CF10138
Liquid CSF Control Level 2	10 x 3 ml	CF10139

*No claims are made regarding values or stability.

ASO Standard

Our dedicated ASO calibrator is designed for use in the calibration of immunoturbidimetric ASO assays. Compatible for use on a wide range of clinical analysers, this calibrator is supplied in a user-friendly liquid ready-to-use format.

- Liquid ready-to-use
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Once opened stable to expiry date at 2°C to 8°C

Description	Size	Cat. No.
ASO Standard	5 x 1 ml	LO2306

β-2-Microglobulin Calibrator

Our dedicated β-2-Microglobulin calibrator is designed for use in the calibration of β-2-Microglobulin assays. With an excellent working stability of 30 days at 2°C to 8°C, waste is kept to a minimum.

- **Lyophilised for enhanced stability**
- **100% human serum**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 30 days at 2°C to 8°C or 3 months at -20°C**

Description	Size	Cat. No.
β-2-Microglobulin Calibrator	3 x 1 ml	BM1362

Cystatin C Control and Calibrator

Dedicated Cystatin C control designed for use in the routine monitoring of both accuracy and precision. Supplied in a convenient, liquid ready-to-use format, no preparation is required. Assayed target values and ranges are provided for this true third party control.

- **Liquid ready-to-use**
- **100% human serum**
- **Stable to expiry date at 2°C to 8°C**
- **Open vial stability of 30 days at 2°C to 8°C**

Description	Size	Cat. No.
Cystatin C Control Level 2	3 x 2 ml	CYS5019
Cystatin C Control Level 3	3 x 2 ml	CYS5020
Cystatin C Calibrator	5 x 2 ml	CYS2699

Immunoglobulin Liquid Protein Calibrator

Analytes	
Immunoglobulin A (IgA)	Immunoglobulin M (IgM)
Immunoglobulin G (IgG)	

Calibrator series designed for use in the calibration of IgA, IgG and IgM immunoturbidimetric assays. Suitable for use with the Randox immunoglobulin assays.

- **Liquid ready-to-use**
- **100% human serum**
- **Stable to expiry date at 2°C to 8°C**
- **Open vial stability of 30 days at 2°C to 8°C**

Description	Size	Cat. No.
Immunoglobulin Liquid Protein Calibrator	3 x 1 ml	IT3861

IMMUNOLOGY/PROTEIN

IgE Calibrator

Comprising 6 levels, our IgE calibrator series is designed for use in the calibration of IgE immunoturbidimetric assays. With an excellent working stability of 28 days at 2°C to 8°C, waste is kept to a minimum.

- **Lyophilised for enhanced stability**
- **Human IgE in a stabilised matrix**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 28 days at 2°C to 8°C**

Description	Size	Cat. No.
IgE Calibrator Series	6 x 1 ml	IE2492

High Sensitivity IgG Calibrator

Dedicated calibrator designed for use with the Randox hsIgG assay. Conveniently supplied in a liquid ready-to-use format with a working stability of 30 days, meaning waste and preparation are kept to a minimum.

- **Liquid ready-to-use**
- **Stable to expiry date at 2°C to 8°C**
- **Open vial stability of 30 days at 2°C to 8°C**

Description	Size	Cat. No.
High Sensitivity IgG Calibrator	3 x 1 ml	IT3899

Rheumatoid Factor Calibrator Series

Comprising 5 levels, our RF calibrator series is designed for use in the calibration of RF immunoturbidimetric assays. Supplied in a user-friendly liquid ready-to-use format, meaning no preparation is required.

- **Liquid ready-to-use**
- **100% human serum**
- **Stable to expiry date at 2°C to 8°C**
- **Once opened, stable to expiry date at 2°C to 8°C**

Description	Size	Cat. No.
Rheumatoid Factor Calibrator Series	5 x 1 ml	RF2301

Soluble Transferrin Receptor (sTfR) Control and Calibrator Series

Providing a true third party solution for the measurement of Soluble Transferrin Receptor (sTfR), the Acusera control will deliver an unbiased, independent assessment of analytical performance. Designed for us with sTfR assays, this single analyte control saves money on wasted material.

- **Lyophilised control**
- **Human based material**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 28 days at 2°C to 8°C**

Description	Size	Cat. No.
sTfR Control Level 1 & 2	3 x 2 x 1 ml	TF10162
sTfR Calibrator	6 x 1 ml	TF10161

INFECTIOUS DISEASE CONTROLS (SEROLOGY)

Historically, serology testing had been used to confirm congenital infections with bacteria, fungi and viruses that can be difficult to detect using other methods. Typically they are blood tests that look for antibodies within the body. Different types of serological tests can be used to diagnose various conditions. Different types of antigens that affect people can include bacteria, fungi, viruses and parasites. The Acusera range of Serology controls is designed to deliver a cost effective, high quality solution for the analysis of infectious diseases using our multi-marker controls that cover a wide range of testing including those mentioned above.

INFECTIOUS DIEASE (SEROLOGY)

Infectious Disease (Serology) Product Range			
Product Description	Size	Cat. No.	Page No.
Lyme Disease Negative Control	1 x 5 ml	SR10345	52
Lyme Disease Positive Control	1 x 5 ml	SR10346	52
ToRCH Negative Control	6 x 5 ml	SR10347	52
ToRCH IgG Positive Control	6 x 5 ml	SR10348	52
ToRCH IgM Positive Control	10 x 1 ml	SR10349	52
EBV Positive Control	1 x 5 ml	SR10350	53
Serology Negative Control	6 x 5 ml	SR10351	53
Serology I Positive Control	3 x 5 ml	SR10352	53
Serology II Positive Control	3 x 5 ml	SR10353	53
Serology III Positive Control	3 x 5 ml	SR10354	53


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Lyme Disease *(Borrelia burgdorferi)* Control

Analytes	
Borrelia burgdorferi IgG	*Borrelia burgdorferi* IgM

Our control delivers a true third-party solution for the detection of Lyme Disease on most immunoassay analysers. All samples are conveniently supplied in a user-friendly, liquid ready-to-use format.

- Liquid ready-to-use
- 100% human plasma
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 60 days at 2°C to 8°C
- Suitable for use with most immunoassay analysers

Description	Size	Cat. No.
Lyme Disease Negative Control	1 x 5 ml	SR10345
Lyme Disease Positive Control	1 x 5 ml	SR10346

ToRCH Controls

Analytes			
ToRCH Negative		**ToRCH IgG Positive**	**ToRCH IgM Positive**
Cytomegalovirus (CMV) IgG	Measles IgG	Cytomegalovirus (CMV) IgG	Cytomegalovirus (CMV) IgM
Cytomegalovirus (CMV) IgM	Mumps IgG	*Helicobacter pylori* IgG	Herpes Simplex Virus 1 (HSV-1) IgM
Epstein Barr Virus (EBV) EBNA IgG	Rubella IgG	Herpes Simplex Virus 1 (HSV-1) IgG	Herpes Simplex Virus 2 (HSV-2) IgM
Epstein Barr Virus (EBV) VCA IgG	Rubella IgM	Herpes Simplex Virus 2 (HSV-2) IgG	Rubella IgM
Epstein Barr Virus (EBV) IgM	Toxoplasma *gondii* IgG	Measles IgG	Toxoplasma *gondii* IgM
Helicobacter pylori IgG	Toxoplasma *gondii* IgM	Mumps IgG	
Herpes Simplex Virus 1 (HSV-1) IgG	*Treponema pallidum* (Syphilis) IgG	Rubella IgG	
Herpes Simplex Virus 1 (HSV-1) IgM	Varicella Zoster Virus (VZV) IgG	Toxoplasma *gondii* IgG	
Herpes Simplex Virus 2 (HSV-2) IgG		*Treponema pallidum* (Syphilis) IgG	
Herpes Simplex Virus 2 (HSV-2) IgM		Varicella Zoster Virus (VZV) IgG	

Our ToRCH portfolio includes positive controls for both IgG and IgM antibodies in addition to a negative control. Each control is manufactured using human plasma and is suitable for use with most immunoassay analysers. The availability of liquid ready-to-use samples helps to reduce preparation time and the potential for human error.

- Liquid ready-to-use
- 100% human plasma
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 60 days at 2°C to 8°C
- Suitable for use with most immunoassay analysers

Description	Size	Cat. No.
ToRCH Negative Control	6 x 5 ml	SR10347
ToRCH IgG Positive Control	3 x 5 ml	SR10348
ToRCH IgM Positive Control	3 x 5 ml	SR10349

INFECTIOUS DIEASE (SEROLOGY)

Epstein Barr Virus (EBV) Control

Analytes	
Epstein Barr Virus (EBV) EBNA IgG Epstein Barr Virus (EBV) VCA IgG	Epstein Barr Virus (EBV) IgM

The Acusera EBV control is conveniently supplied liquid ready-to-use and is suitable for us with most immunoassay analysers.

- Liquid ready-to-use
- 100% human plasma
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 60 days at 2°C to 8°C
- Suitable for use with most immunoassay analysers

Description	Size	Cat. No.
EBV Positive Control	1 x 5 ml	SR10350

Serology Controls

Analytes			
Serology Negative Anti-HAV Anti-HBc Anti-Hbe Anti-HBs Anti-HCV Anti-HIV 1 / 2 Anti-HTLV 1 / 2 HAV IgM HBc IgM	HbeAg HBsAg HIV P24Ag *Treponema pallidum* (Syphilis) IgG **Serology I Positive** Anti-HBc Anti-HCV Anti-HIV 1 / 2 Anti-HTLV 1 / 2	HBsAg *Treponema pallidum* (Syphilis) IgG **Serology II Positive** Anti-HAV Anti-HBc Anti-Hbe Anti-HBs	**Serology III Positive** HAV IgM HBc IgM HBeAg HIV P24Ag

The Acusera Serology controls are supplied liquid ready to use and are suitable for use on most immunoassay analysers.

- Liquid ready-to-use
- 100% human plasma
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 60 days at 2°C to 8°C
- Suitable for use with most immunoassay analysers

Description	Size	Cat. No.
Serology Negative Control	6 x 5 ml	SR10351
Serology I Positive Control	3 x 5 ml	SR10352
Serology II Positive Control	3 x 5 ml	SR10353
Serology III Positive Control	3 x 5 ml	SR10354

LIPID CONTROLS

Our Acusera Lipid quality controls have been manufactured from 100% human serum to ensure they are commutable, performing in the same manner as a patient sample with minimal lot to lot value shifts. All of our Lipid Controls contain no stabilisers or preservatives, which may affect the overall performance of the controls. The multi-analyte controls enable test menu consolidation which, along with a four year shelf life from the date of manufacture, ensures minimal waste and helps to reduce costs.

LIPIDS

Lipid Product Range			
Product Description	Size	Cat. No.	Page No.
Lipid Control Level 1	5 x 1 ml	LE2668	56
Lipid Control Level 2	5 x 1 ml	LE2669	56
Lipid Control Level 3	5 x 1 ml	LE2670	56
Lipid Control Level 1	5 x 3 ml	LE2661	56
Lipid Control Level 2	5 x 3 ml	LE2662	56
Lipid Control Level 3	5 x 3 ml	LE2663	56
Liquid Lipid Control Level 1	5 x 3 ml	LE10174	56
Liquid Lipid Control Level 2	5 x 3 ml	LE10175	56
Liquid Lipid Control Level 3	5 x 3 ml	LE10176	56
Direct HDL/LDL Cholesterol Calibrator (Clearance)	3 x 1 ml	CH2673	57
Apolipoprotein Control Level 1	3 x 1 ml	LE5016	57
Apolipoprotein Control Level 2	3 x 1 ml	LE5017	57
Apolipoprotein Control Level 3	3 x 1 ml	LE5018	57
Apolipoprotein Calibrator	3 x 1 ml	LP3023	57
Apolipoprotein Calibrator 2	3 x 1 ml	LP5047	57
Lipoprotein (a) Control Level 3	3 x 1 ml	LP3406	58
Lipoprotein (a) Calibrator Series	5 x 1 ml	LP3404	58
sLDL Control Level 1	3 x 1 ml	LE5013	58
sLDL Control Level 2	3 x 1 ml	LE5014	58
sLDL Control Level 3	3 x 1 ml	LE5015	58
sLDL Calibrator	3 x 1 ml	CH5050	58
HDL-3 Control Level 2	3 x 1 ml	CH10169	58
HDL-3 Control Level 3	3 x 1 ml	CH10170	58
HDL-3 Calibrator	5 x 1 ml	CH10164	58

Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

Lipid Control

Analytes			
Apolipoprotein A-I	Cholesterol (HDL)	Cholesterol (Total)	Triglycerides
Apolipoprotein B	Cholesterol (LDL)	Lipoprotein (a)	

The Randox Acusera Lipid control is supplied with assayed method specific target values and ranges for 7 analytes, covering the complete lipid profile. Unlike with many manufacturers, the material used in the production of the Randox lipid control does not contain preservatives such as Sodium Azide. This ensures a matrix that is compatible with the patient sample and prevents interference with clearance methods of HDL and LDL. Two flexible and convenient pack sizes are available, providing a true third party solution for laboratories of all sizes.

- Lyophilised for enhanced stability
- 100% human serum
- Sodium Azide is not present - no interference occurs with clearance methods
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Lipid Control Level 1	5 x 1 ml	LE2668
Lipid Control Level 2	5 x 1 ml	LE2669
Lipid Control Level 3	5 x 1 ml	LE2670
Lipid Control Level 1	5 x 3 ml	LE2661
Lipid Control Level 2	5 x 3 ml	LE2662
Lipid Control Level 3	5 x 3 ml	LE2663

Liquid Lipid Control

Analytes			
Apolipoprotein A-I	Cholesterol (HDL)	Cholesterol (Total)	Lipoprotein (a)
Apolipoprotein B	Cholesterol (LDL)	CRP	Triglycerides

Delivering a true third party solution for a wide range of lipids, the new Acusera Liquid Lipid Control is designed to ensure an unbiased, independent assessment of analytical performance. The added advantage of liquid samples and a 30 day open vial stability keeps waste to a minimum while ensuring the control is easy and convenient to use. Three distinct levels are available covering low risk, borderline and high risk concentrations.

- Liquid frozen
- 100% human serum
- Sodium Azide is not present - no interference occurs with clearance methods
- Stable to expiry date at -20°C to -80°C
- Reconstituted stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid Lipid Control Level 1	5 x 3 ml	LE10174
Liquid Lipid Control Level 2	5 x 3 ml	LE10175
Liquid Lipid Control Level 3	5 x 3 ml	LE10176

LIPIDS

Direct LDL/HDL Cholesterol Calibrator

Analytes	
Cholesterol (HDL)	Cholesterol (LDL)

The Acusera Direct LDL/HDL Cholesterol Calibrator has been designed for use in the calibration of HDL and LDL Clearance assays on clinical chemistry analysers.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C and 1 month at -20°C

Description	Size	Cat. No.
Direct LDL/HDL Cholesterol Calibrator (Clearance)	3 x 1 ml	CH2673

Apolipoprotein Control and Calibrators

Analytes		
Apolipoprotein Control	Apolipoprotein Calibrator	Apolipoprotein Calibrator 2
Apolipoprotein A-II	Apolipoprotein A-I	Apolipoprotein A-II
Apolipoprotein C-II	Apolipoprotein B	Apolipoprotein C-II
Apolipoprotein C-III		Apolipoprotein C-III
Apolipoprotein E		Apolipoprotein E

The Acusera Apolipoprotein control has been designed for the routine monitoring of 4 esoteric Apolipoprotein analytes. Complementing our Acusera Apolipoprotein control is the Acusera Apolipoprotein Calibrator, which has been designed for use in the calibration of 6 Apolipoprotein assays on a wide range of clinical chemistry analysers.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Control - reconstituted stability of up to 28 days at 2°C to 8°C for Apolipoprotein A-II and Apolipoprotein C-III, 14 days for Apolipoprotein C-II and 8 hours for Apolipoprotein E
- Calibrator - reconstituted stability of 7 days at 2°C to 8°C for Apolipoprotein control A-I, B, A-II, C-II and C-III, 1 day for Apolipoprotein E

Description	Size	Cat. No.
Apolipoprotein Control Level 1	3 x 1 ml	LE5016
Apolipoprotein Control Level 2	3 x 1 ml	LE5017
Apolipoprotein Control Level 3	3 x 1 ml	LE5018
Apolipoprotein Calibrator	3 x 1 ml	LP3023
Apolipoprotein Calibrator 2	3 x 1 ml	LP5047

Lipoprotein (a) Control and Calibrator

The Acusera Lipoprotein (a) control has been designed for the routine monitoring of the Randox Lipoprotein (a) assay. The Acusera Lipoprotein (a) calibrator has been designed to calibrate Lipoprotein (a) assays on clinical chemistry analysers.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 14 days at 2°C to 8°C

Description	Size	Cat. No.
Lipoprotein (a) Control Level 3	3 x 1 ml	LP3406
Lipoprotein (a) Calibrator Series	5 x 1 ml	LP3404

sLDL Control and Calibrator

The Acusera sLDL Control and Calibrator have been designed for the use in the routine monitoring of both accuracy and precision.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C

Description	Size	Cat. No.
sLDL Control Level 1	3 x 1 ml	LE5013
sLDL Control Level 2	3 x 1 ml	LE5014
sLDL Control Level 3	3 x 1 ml	LE5015
sLDL Calibrator	3 x 1 ml	CH5050

HDL-3 Control and Calibrator

The Randox Acusera HDL3 quality control and calibrator are designed for use in the routine monitoring of HDL3 assays. This single analyte control will help laboratories reduce costs as there is less wastage while measuring two separate levels.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C

Description	Size	Cat. No.
HDL-3 Control Level 2	3 x 1 ml	CH10169
HDL-3 Control Level 3	3 x 1 ml	CH10170
HDL-3 Calibrator*	5 x 1 ml	CH10164

*Calibrator stable for one day only

SPECIALITY AND RESEARCH CONTROLS

Our Speciality and Research Quality Controls cover a wide range of assays employed by universities, pharmaceutical companies, forensic laboratories and so on. Available in various formats and pack sizes, our multi-analyte Speciality and Research controls cover a range of specialised assays.

Speciality and Research Product Range			
Product Description	Size	Cat. No.	Page No.
Antimicrobial Control II	3 x 1 ml	AMC5035	61
Antimicrobial Control III	3 x 1 ml	AMC5036	61
Growth Promoter Control	3 x 1 ml	GP5003	61
Adhesion Molecules Tri-Level Control	3 x 3 x 1 ml	EV3569	62
Adhesion Molecules Calibrator Series	9 x 1 ml	EV3568	62
Cerebral Array II Tri-Level Control	3 x 3 x 0.5 ml	CBB5009	62
Cytokine Array I Tri-Level Control	3 x 3 x 1 ml	CY5006	63
High Sensitivity Cytokine Array Tri-Level Control	3 x 3 x 2 ml	CY5005	63
Cytokine Array Calibrator Series	9 x 1 ml	EV3561	63
Cytokine Array III Tri-Level Control	3 x 3 x 1 ml	CY5012	63
Cytokine Array IV Tri-Level Control	3 x 3 x 1 ml	CY5011	64
Evidence Immunoassay Control	4 x 3 x 5 ml	EV3570	64
Synthetic Steroids Control	3 x 1 ml	EV3709	65
Synthetic Steroids Calibrator	9 x 1 ml	EV3708	65
Metabolic Syndrome Array I Control	3 x 3 x 1 ml	EV3757	65
Metabolic Syndrome Array I Calibrator	9 x 1 ml	EV3756	65
Metabolic Syndrome Array II Control	3 x 3 x 1 ml	EV3761	66
Metabolic Syndrome Array II Calibrator	9 x 1 ml	EV3760	66
Thyroid Total Calibrator Series	9 x 1 ml	EV3555	66
Thyroid Free Calibrator Series	9 x 1 ml	EV3563	66


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

SPECIALITY AND RESEARCH

Antimicrobial Control II

Analytes			
Ceftiofur Quinolones (Generic)	Streptomycin Tetracyclines (Generic)	Thiamphenicol	Tylosin

A multi-analyte control supplied with values for 6 different antimicrobial agents used extensively in veterinary medicine.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 24 hours at 2°C to 8°C or 14 days at -20°C

Description	Size	Cat. No.
Antimicrobial Control II	3 x 1 ml	AMC5035

Antimicrobial Control III

Analytes			
AHD AMOZ	AOZ	Chloramphenicol	Semicarbazine (SEM)

Multi-analyte control containing values for 5 different antimicrobial agents.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 28 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Antimicrobial Control III	3 x 1 ml	AMC5036

Growth Promoter Control

Analytes			
β-Agonists (Clenbuterol) Boldenone Corticosteroids	Nandrolone Ractopamine	Stanozolol Stilbenes	Trenbolone Zeranol

A multi-analyte control provided with accurately assigned target values and ranges for 9 different growth promoters.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 14 days at 2°C to 8°C

Description	Size	Cat. No.
Growth Promoter Control	3 x 1 ml	GP5003

Adhesion Molecules Control and Calibrator

Analytes	
E-Selectin (E-SEL)	P-Selectin (P-SEL)
Intercellular Adhesion Molecule-1 (ICAM-1)	Vascular Cell Adhesion Molecule-1 (VCAM-1)
L-Selectin (L-SEL)	

A multi-analyte control with target values and ranges supplied for 5 different adhesion molecules.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human recombinant material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 24 hours at 2°C to 8°C or 7 days at -20°C

Description	Size	Cat. No.
Adhesion Molecules Tri-Level Control	3 x 3 x 1 ml	EV3569
Adhesion Molecules Calibrator Series	9 x 1 ml	EV3568

Cerebral Array II Control

Analytes	
CRP	Neutrophil Gelatinase-associated Lipocalin (NGAL)
D-dimer	Soluble Tumour Necrosis Factor Receptor I (sTNFRI)
Neuron Specific Enolase (NSE)	Thrombomodulin (TM)

A multi-analyte control with target values and ranges provided for 6 analytes.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 8 hours at 2°C to 8°C or 14 days at -80°C

Description	Size	Cat. No.
Cerebral Array II Tri-Level Control	3 x 3 x 0.5 ml	CBB5009

SPECIALITY AND RESEARCH

Cytokine Array I and High Sensitivity Cytokine Array I Controls and Calibrator

Analytes	
Epidermal Growth Factor (EGF)	Interleukin-6 (IL-6)
Interferon g (IFNg)	Interleukin-8 (IL-8)
Interleukin-1α (IL-1α)	Interleukin-10 (IL-10)
Interleukin-1β (IL-1β)	Monocyte Chemoattractant Protein-1 (MCP-1)
Interleukin-2 (IL-2)	Tumour Necrosis Factor α (TNFα)
Interleukin-4 (IL-4)	Vascular Endothelial Growth Factor (VEGF)

Multi-analyte controls with target values and ranges provided for 12 different cytokines.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human recombinant material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 10-12 hours at 2°C to 8°C or 14 days at -20°C
- High sensitivity - Reconstituted stability of 4 hours at 2°C to 8°C or 7 days at -20°C

Description	Size	Cat. No.
Cytokine Array I Tri-Level Control	3 x 3 x 1 ml	CY5006
High Sensitivity Cytokine Array I Tri-Level Control	3 x 3 x 2 ml	CY5005
Cytokine Array Calibrator Series	9 x 1 ml	EV3561

Cytokine Array III Control

Analytes	
GM-CSF	Interleukin-15 (IL-15)
Interleukin-5 (IL-5)	Macrophage Inflammatory Protein-1 α (MIP-1α)

A multi-analyte control with target values and ranges provided for 4 analytes.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 24 hours at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Cytokine Array III Tri-Level Control	3 x 3 x 1 ml	CY5012

Cytokine Array IV Control

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

A multi-analyte control with target values and ranges provided for 5 analytes.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Cytokine Array IV Tri-Level Control	3 x 3 x 1 ml	CY5011

Evidence Immunoassay Control

Analytes			
CEA	Progesterone	T3 (Free)	Testosterone
FSH	Prolactin	T3 (Total)	TSH
Luteinising Hormone (LH)	PSA (Free)	T4 (Free)	
Oestradiol	PSA (Total)	T4 (Total)	

Multi-analyte immunoassay control designed for use in the routine monitoring of the Randox Fertility, Thyroid and Tumour Marker Arrays.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Evidence Immunoassay Control	4 x 3 x 5 ml	EV3570

SPECIALITY AND RESEARCH

Synthetic Steroids Control and Calibrator

Analytes			
17β-Clostebol	Gestagens (Generic)	Methandriol	Methyltestosterone
Ethinylestradiol			

Human based control designed for use in the routine monitoring of both accuracy and precision. Assayed target values and ranges are provided for 5 different synthetic steroids.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 3 days at 2°C to 8°C or 14 days at -20°C

Description	Size	Cat. No.
Synthetic Steroids Control	3 x 1 ml	EV3709
Synthetic Steroids Calibrator	9 x 1 ml	EV3708

Metabolic Syndrome Array I Control and Calibrator

Analytes			
C-Peptide	Interleukin-1α (IL-1α)	Plasminogen Activator Inhibitor-1	Tumour Necrosis Factor α (TNFα)
Ferritin	Interleukin-6 (IL-6)	Resistin	
Insulin	Leptin		

A multi-analyte control with target values and ranges provided for 9 analytes associated with metabolic syndrome.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 72 hours at 2°C to 8°C and 7 days at -20°C

Description	Size	Cat. No.
Metabolic Syndrome Array I Control	3 x 3 x 1 ml	EV3757
Metabolic Syndrome Array I Calibrator	9 x 1 ml	EV3756

Metabolic Syndrome Array II Control and Calibrator

Analytes	
Adiponectin	Cystatin C
CRP	

A multi-analyte control with target values and ranges provided for 3 analytes associated with metabolic syndrome.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 8 hours at 2°C to 8°C and 28 days at -20°C

Description	Size	Cat. No.
Metabolic Syndrome Array II Control	3 x 3 x 1 ml	EV3761
Metabolic Syndrome Array II Calibrator	9 x 1 ml	EV3760

Thyroid Total Calibrator

Analytes	
T3 (Total)	TSH
T4 (Total)	

A comprehensive multi analyte calibrator designed for use in the calibration of the Randox Thyroid Total Array on Randox Biochip systems.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C and 28 days at -20°C

Description	Size	Cat. No.
Thyroid Total Calibrator Series	9 x 1 ml	EV3555

Thyroid Free Calibrator

Analytes	
T3 (Free)	TSH
T4 (Free)	

A comprehensive multi analyte calibrator designed for use in the calibration of the Randox Thyroid Free Array on Randox Biochip systems.

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C and 28 days at -20°C

Description	Size	Cat. No.
Thyroid Free Calibrator Series	9 x 1 ml	EV3563

THERAPEUTIC DRUG CONTROLS

Patients absorb and metabolise medication at different rates. As a result, it is simply not acceptable to administer a standard volume to each one. Due to the problems that over and under prescribing medication can cause, it is vital that levels are closely monitored and medical personnel can trust that the test results they receive are accurate and reliable. Our Therapeutic Drug Controls are manufactured from 100% human serum and have a reconstituted stability of 4 weeks, ensuring minimal waste, thus saving your laboratory money.

THERAPEUTIC DRUG

Therapeutic Drug Product Range			
Product Description	Size	Cat. No.	Page No.
Therapeutic Drug Control Level 1	20 x 5 ml	HD1667	69
Therapeutic Drug Control Level 2	20 x 5 ml	HD1668	69
Therapeutic Drug Control Level 3	20 x 5 ml	HD1669	69
Therapeutic Drug Calibrator	6 x 3 ml	TD3417	69


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

THERAPEUTIC DRUG

Therapeutic Drug Control

Analytes			
Amikacin	Ethosuximide	Phenobarbitone	Tobramycin
Caffeine	Gentamicin	Phenytoin	Valproic Acid
Carbamazepine	Lithium	Primidone	Vancomycin
Cyclosporine	Methotrexate	Salicylate	
Digoxin	Paracetamol	Theophylline	

Multi-analyte therapeutic drug control covering 18 analytes at three clinically relevant levels. Method specific target values and ranges are supplied for this true third party control. With an extended reconstituted stability of 28 days, waste is kept to a minimum.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 28 days at 2°C to 8°C

Description	Size	Cat. No.
Therapeutic Drug Control Level 1	20 x 5 ml	HD1667
Therapeutic Drug Control Level 2	20 x 5 ml	HD1668
Therapeutic Drug Control Level 3	20 x 5 ml	HD1669

Therapeutic Drug Calibrator

Analytes			
Carbamazepine	Gentamicin	Phenytoin	Valproic Acid
Digoxin	Phenobarbitone		

The Acusera Therapeutic Drug calibrator has been designed for use in the calibration of 7 therapeutic drug assays on clinical chemistry analysers. An extended stability of 28 days will help to reduce waste and costs.

- Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 28 days at 2°C to 8°C or 8 weeks at -20°C

Description	Size	Cat. No.
Therapeutic Drug Calibrator	6 x 3 ml	TD3417

TOXICOLOGY CONTROLS

The detection and treatment of toxic substances can mean life or death for a patient. As a result, it is essential to ensure that the results you are releasing are accurate and reliable. Our controls are available in both liquid and lyophilised formats and in a variety of matrices, providing you with the flexibility to choose a control to suit your needs.

TOXICOLOGY

Toxicology Product Range			
Product Description	Size	Cat. No.	Page No.
Ethanol Calibrator/Control Set	4 x 10 ml	DA2703	72
Drugs of Abuse Array I Plus (Urine) Controls	4 x 2 x 1 ml	EV3745	72
Drugs of Abuse Array I Plus (Urine) Calibrators	9 x 1 ml	EV3744	72
Drugs of Abuse Array I Plus (Whole Blood) Controls	4 x 2 x 1 ml	EV3750	72
Drugs of Abuse Array I Plus (Whole Blood) Calibrators	9 x 1 ml	EV3749	72
Drugs of Abuse Array II (Urine) Controls	4 x 2 x 1 ml	EV3657	72
Drugs of Abuse Array II (Whole Blood) Controls	4 x 2 x 1 ml	EV3682	72
Drugs of Abuse Array II (Urine) Calibrator Series	9 x 1 ml	EV3656	72
Drugs of Abuse Array II (Whole Blood) Calibrator Series	9 x 1 ml	EV3687	72
Drugs of Abuse Array III (Urine) Control	4 x 2 x 1 ml	EV3830	73
Drugs of Abuse Array III (Urine) Calibrator Series	9 x 1 ml	EV3829	73
Drugs of Abuse Array III (Whole Blood) Control	4 x 2 x 1 ml	EV3794	73
Drugs of Abuse Array III (Whole Blood) Calibrator Series	9 x 1 ml	EV3797	73
Drugs of Abuse Array IV (Urine) Control	4 x 2 x 1 ml	EV3835	73
Drugs of Abuse Array IV (Urine) Calibrator Series	9 x 1 ml	EV3834	73
Drugs of Abuse Array IV (Whole Blood) Control	4 x 2 x 1 ml	EV3809	73
Drugs of Abuse Array IV (Whole Blood) Calibrator Series	9 x 1 ml	EV3808	73
Drugs of Abuse Array V (Urine) Control	4 x 2 x 1 ml	EV3814	74
Drugs of Abuse Array V (Urine) Calibrator Series	9 x 1 ml	EV3815	74
Drugs of Abuse Array V (Whole Blood) Control	4 x 2 x 1 ml	EV3848	74
Drugs of Abuse Array V (Whole Blood) Calibrator Series	9 x 1 ml	EV3847	74
Cannabinoid Calibrator Set	5 x 3 ml	DA2700	74
Cannabinoid Control Level 1	5 x 3 ml	DA3127	74
Cannabinoid Control Level 2	5 x 3 ml	DA3128	74
Ecstasy Calibrator Set	5 x 10 ml	DA2701	74
Ecstasy Control Level 1	5 x 5 ml	DA3125	74
Ecstasy Control Level 2	5 x 5 ml	DA3126	74
EDDP Calibrator Set	5 x 10 ml	DA2702	75
EDDP Control Level 1	5 x 5 ml	DA3123	75
EDDP Control Level 2	5 x 5 ml	DA3124	75
Multidrug Calibrator Set	5 x 10 ml	DA2704	75
Multidrug Control Level 1	5 x 5 ml	DA3121	75
Multidrug Control Level 2	5 x 5 ml	DA3122	75
Benzodiazepines Control Level 1	5 x 5 ml	DA3130	75
Benzodiazepines Control Level 2	5 x 5 ml	DA3131	75
Benzodiazepines Calibrator Set	5 x 10 ml	DA3129	75


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Ethanol Calibrator/Control Set

Dedicated calibrator and control set designed for the calibration and quality control of the Randox Ethanol assay.

- Liquid ready-to-use
- Human urine
- Stable to expiry date when capped and stored at 2°C to 8°C
- Open vial stability of 28 days at 2°C to 8°C

Description	Size	Cat. No.
Ethanol Calibrator/Control Set	4 x 10 ml	DA2703

Drugs of Abuse Array I Plus Controls and Calibrators

Analytes			
Amphetamine	Benzoylecgonine (Cocaine)	MDMA	Opiates
Barbiturates	Buprenorphine	Methadone	Phencyclidine
Benzodiazepine 1	Cannabinoids	Methamphetamine	Tricyclic Antidepressants
Benzodiazepine 2	Creatinine		

Assayed control for use in monitoring the accuracy and precision on Randox Biochip systems. Two levels of control are provided, covering the cut-off range.

- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Urine - Reconstituted stability of 14 days at 2°C to 8°C
- Whole Blood – Reconstituted stability of 7 days at 2°C to 8°C or 14 days at -20°C

Description	Size	Cat. No.
Drugs of Abuse Array I Plus (Urine) Controls	4 x 2 x 1 ml	EV3745
Drugs of Abuse Array I Plus (Urine) Calibrators	9 x 1 ml	EV3744
Drugs of Abuse Array I Plus (Whole Blood) Controls	4 x 2 x 1 ml	EV3750
Drugs of Abuse Array I Plus (Whole Blood) Calibrators	9 x 1 ml	EV3749

Drugs of Abuse Array II Controls and Calibrators

Analytes			
Buprenorphine	Ketamine	MDMA	Oxycodone II
Creatinine	LSD	Opiates	Propoxyphene
Fentanyl	Methaqualone	Oxycodone I	

A comprehensive control designed for use in the routine monitoring of accuracy and precision on Randox Biochip systems. Assayed values are provided for 11 analytes.

- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Urine - Reconstituted stability of 7 days at 2°C to 8°C or 28 days at -20°C
- Whole Blood - Reconstituted stability of 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Drugs of Abuse Array II (Urine) Controls	4 x 2 x 1 ml	EV3657
Drugs of Abuse Array II (Whole Blood) Controls	4 x 2 x 1 ml	EV3682
Drugs of Abuse Array II (Urine) Calibrator Series	9 x 1 ml	EV3656
Drugs of Abuse Array II (Whole Blood) Calibrator Series	9 x 1 ml	EV3687

TOXICOLOGY

Drugs of Abuse Array III Controls and Calibrators

Analytes			
7-amino Flunitrazepam	Ethyl Glucuronide	Meperidine	Zolpidem
Chloral Hydrate Metabolite	Fentanyl	Meprobamate	Zopiclone
Creatinine	Ketamine	Zaleplon	

Assayed control for use in monitoring the accuracy and precision of the analytes above on Randox Biochip systems. Two levels of control are provided covering the cut-off range.

- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.
Drugs of Abuse Array III (Urine) Control	4 x 2 x 1 ml	EV3830
Drugs of Abuse Array III (Urine) Calibrator Series	9 x 1 ml	EV3829
Drugs of Abuse Array III (Whole Blood) Control	4 x 2 x 1 ml	EV3794
Drugs of Abuse Array III (Whole Blood) Calibrator Series	9 x 1 ml	EV3797

Drugs of Abuse Array IV Controls and Calibrators

Analytes			
Creatinine	Haloperidol	Salicylate	Trazodone
Dextromethorphan	Ibuprofen	Salicyluric Acid	Tricyclic Antidepressants
Escitalopram	Methylphenidate	Sertraline	
Fluoxetine	Paracetamol	Tramadol	

Assayed control for use in monitoring the accuracy and precision of the analytes above on Randox Biochip systems. Two levels of control are provided covering the cut-off range.

- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.
Drugs of Abuse Array IV (Urine) Control	4 x 2 x 1 ml	EV3835
Drugs of Abuse Array IV (Urine) Calibrator Series	9 x 1 ml	EV3834
Drugs of Abuse Array IV (Whole Blood) Control	4 x 2 x 1 ml	EV3809
Drugs of Abuse Array IV (Whole Blood) Calibrator Series	9 x 1 ml	EV3808

Drugs of Abuse Array V Controls and Calibrators

Analytes			
Bath Salts 1	Mescaline	Synthetic Cannabinoids 1	Synthetic Cannabinoids 4
Bath Salts 2	Phenylpiperazines	Synthetic Cannabinoids 2	
Benzylpiperazines	Salvinorin	Synthetic Cannabinoids 3	

Assayed control for use in monitoring the accuracy and precision of the analytes above on Randox Biochip systems. Two levels of control are provided covering the cut-off range.

- Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.
Drugs of Abuse Array V (Urine) Control	4 x 2 x 1 ml	EV3814
Drugs of Abuse Array V (Urine) Calibrator Series	9 x 1 ml	EV3815
Drugs of Abuse Array V (Whole Blood) Control	4 x 2 x 1 ml	EV3848
Drugs of Abuse Array V (Whole Blood) Calibrator Series	9 x 1 ml	EV3847

Cannabinoid Control and Calibrator

Dedicated calibrator and control set designed for the calibration and quality control of the Randox Cannabinoids assay.

- Liquid ready-to-use
- 100% human urine
- Stable to expiry date when capped and stored at 2°C to 8°C
- Open vial stability of 28 days at 2°C to 8°C

Description	Size	Cat. No.
Cannabinoid Calibrator Set	5 x 3 ml	DA2700
Cannabinoid Control Level 1	5 x 3 ml	DA3127
Cannabinoid Control Level 2	5 x 3 ml	DA3128

Ecstasy Control and Calibrator

Dedicated calibrator and control set designed for the calibration and quality control of the Randox Ecstasy assay.

- Liquid ready-to-use
- 100% human urine
- Stable to expiry date when capped and stored at 2°C to 8°C
- Open vial stability of 28 days at 2°C to 8°C

Description	Size	Cat. No.
Ecstasy Calibrator Set	5 x 10 ml	DA2701
Ecstasy Control Level 1	5 x 5 ml	DA3125
Ecstasy Control Level 2	5 x 5 ml	DA3126

TOXICOLOGY

EDDP Control and Calibrator

Dedicated calibrator and control set designed for the calibration and quality control of the Randox EDDP assay.

- Liquid ready-to-use
- Human urine
- Stable to expiry date when capped and stored at 2°C to 8°C
- Once opened stable to expiry date at 2°C to 8°C

Description	Size	Cat. No.
EDDP Calibrator Set	5 x 10 ml	DA2702
EDDP Control Level 1	5 x 5 ml	DA3123
EDDP Control Level 2	5 x 5 ml	DA3124

Multidrug Control

Analytes			
Benzoylecgonine (Cocaine) Methadone	Methamphetamine	Morphine (Opiates)	Secobarbital

Multi-analyte control and calibrator designed for use in the quality control of the Randox Amphetamines, Barbiturates, Opiates, Cocaine and Methadone assays.

- Liquid ready-to-use
- Human urine
- Stable to expiry date when capped and stored at 2°C to 8°C
- Open vial stability of 28 days at 2°C to 8°C

Description	Size	Cat. No.
Multidrug Control Level 1	5 x 5 ml	DA3121
Multidrug Control Level 2	5 x 5 ml	DA3122
Multidrug Calibrator Set	5 x 10 ml	DA2704

Benzodiazepines Control and Calibrator

Dedicated calibrator and control set designed for the calibration and control of the Randox Benzodiazepines assay.

- Liquid ready-to-use
- Human urine
- Stable to expiry date when capped and stored at 2°C to 8°C
- Open vial stability of 28 days at 2°C to 8°C

Description	Size	Cat. No.
Benzodiazepines Control Level 1	5 x 5 ml	DA3130
Benzodiazepines Control Level 2	5 x 5 ml	DA3131
Benzodiazepines Calibrator Set	5 x 10 ml	DA3129

URINE CONTROLS

Our Acusera Urine Chemistry Controls are available in a choice of lyophilised and liquid ready-to-use formats, covering the full range of clinical testing. With flexible options available, we have a urine control to suit all laboratory sizes and budgets.

URINE

Urine Product Range			
Product Description	Size	Cat. No.	Page No.
Assayed Urine Control Level 2	12 x 10 ml	AU2352	78
Assayed Urine Control Level 3	12 x 10 ml	AU2353	78
Liquid Urine Control Level 2	10 x 10 ml	UC5074	78
Liquid Urine Control Level 3	10 x 10 ml	UC5075	78
Urinalysis Control Level 1	12 x 12 ml	UC5033	79
Urinalysis Control Level 2	12 x 12 ml	UC5034	79
Low Level hCG Control	3 x 1 ml	PF10333	79
Microalbumin Control Level 1 & 2	6 x 1 ml	MA1361	79
Microalbumin Calibrator Series	6 x 2 ml	MA1567	79


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Assayed Urine Control

Analytes			
5-HIAA	Creatinine	Microalbumin	Potassium
Amylase	Dopamine	Norepinephrine	Protein (Total)
Calcium	Epinephrine	Normetanephrine	Sodium
Chloride	Glucose	Osmolality	Urea
Copper	Magnesium	Oxalate	Uric Acid (Urate)
Cortisol	Metanephrine	Phosphate (Inorganic)	Vanillylmandelic Acid (VMA)

Comprising 24 urine chemistry analytes in a single multi-analyte control, the Acusera Assayed Urine Control is designed to cover your complete test menu, reducing costs and preparation time. Our unique 100% human urine matrix will mirror the performance of patient samples and ensure target values don't shift after changing reagent batch. Assayed target values and ranges are provided for this true third party control.

- Lyophilised for enhanced stability
- 100% human urine
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C or 14 days at -20°C

Description	Size	Cat. No.
Assayed Urine Control Level 2	12 x 10 ml	AU2352
Assayed Urine Control Level 3	12 x 10 ml	AU2353

Liquid Urine Control

Analytes			
Amylase	Glucose	pH	Specific Gravity
Calcium	hCG	Phosphate (Inorganic)	Urea
Chloride	Magnesium	Potassium	Uric Acid (Urate)
Cortisol	Microalbumin	Protein (Total)	
Creatinine	Osmolality	Sodium	

Our Acusera Liquid Urine Control has been designed to consolidate up to 18 commonly used urine chemistry analytes in a single vial, reducing the number of controls required to cover your complete test menu. Supplied in a user-friendly liquid ready-to-use format with an open vial stability of 30 days, waste and time is kept to a minimum. Assayed target values and ranges are provided for this true third party control.

- Liquid ready-to-use
- 100% human urine
- Stable to expiry date at 2°C to 8°C
- Open vial stability 30 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid Urine Control Level 2	10 x 10 ml	UC5074
Liquid Urine Control Level 3	10 x 10 ml	UC5075

URINE

Urinalysis Control

Analytes			
Albumin	Glucose	Nitrite	Urobilinogen
Bilirubin	hCG	pH	
Blood	Ketones	Protein (Total)	
Creatinine	Leukocytes	Specific Gravity	

The Acusera Urinalysis Control has been specifically designed for use in the quality control of urine test strips. Our user-friendly liquid ready-to-use format will dramatically reduce preparation time while a stability of 30 days will keep waste to a minimum. Assayed values are provided for 13 analytes covering a range of test strip manufacturers.

- Liquid ready-to-use
- 100% human urine
- Suitable for use in POCT
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days or 20 immersions at 2°C to 25°C

Description	Size	Cat. No.
Urinalysis Control Level 1	12 x 12 ml	UC5033
Urinalysis Control Level 2	12 x 12 ml	UC5034

Low Level hCG Control

Third party QC solution for the measurement of hCG on Alere hCG Casettes. This Acusera control provides an unbiased, independent assessment of analytical performance helping to ensure accurate and reliable patient testing for hCG. This single level control will cover the low level of hCG testing on the Alere hCG Cassettes.

- Lyophilised for enhanced stability
- Human based urine
- Suitable for use in POCT
- Assayed target values provided for Alere hCG Cassette
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.
Low Level hCG Control	3 x 1 ml	PF10333

Microalbumin Control and Calibrator

Our Acusera Microalbumin Control & Calibrator have been developed for use in the calibration and monitoring of microalbumin immunoturbidimetric assays. Our unique 100% human urine matrix ensures it behaves like a patient sample and reduces costly shifts when reagent batch is changed. As a true third party control, it is compatible for use on a wide range of clinical analysers.

- Liquid ready-to-use
- 100% human urine
- Stable to expiry date at 2°C to 8°C
- Once opened stable to expiry date at 2°C to 8°C

Description	Size	Cat. No.
Microalbumin Control Level 1 & 2	6 x 1 ml	MA1361
Microalbumin Calibrator Series	6 x 2 ml	MA1567

ACCESSORIES

This accessories section looks at the different products we have that can be used in conjunction with our other products found in this brochure. Further information on each accessory can be found beside the product name.

ACCESSORIES

Accessories Product Range			
Product Description	Size	Cat. No.	Page No.
Serum Diluent	20 x 5 ml	MS5007	82


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Serum Diluent 

This convenient 5ml serum diluent is designed to assist laboratories with reconstitution of lyophlised controls. The user-friendly pour over vials streamline the reconstitution process and help to eliminate the risk of pipetting errors.

Description	Size	Cat. No.
Serum Diluent	20 x 5 ml	MS5007

CUSTOMISED QUALITY CONTROL SERA

Don’t see what you are looking for? No problem! Randox Quality Control can work with you to develop a customised quality control for your laboratory. With our custom sera, you can select the analytes, levels, format and vial size required by your laboratory, ensuring the final product meets all your needs and guarantees you can continue to produce accurate and reliable patient results.

CUSTOMISED QUALITY CONTROL SERA

For over 35 years, laboratories, EQA scheme organisers and other diagnostic companies have looked to Randox to provide their QC needs. Randox Laboratories manufactures a full portfolio of quality controls, calibrators and standards for over 400 analytes. In addition to 'off the shelf' quality control products, Randox is the world's leading provider of customised control materials. Customising control materials can involve adding/removing analytes, specifying concentrations or choosing alternative vial sizes.

Our principal control products are:

- Antioxidants
- Cardiac
- Clinical Chemistry
- Coagulation and Haematology
- Diabetes and Whole Blood
- Immunoassay
- Immunology/Proteins
- Infectious Disease (Serology)
- Lipids
- Tumour Markers
- Therapeutic Drugs and Toxicology
- Urine tests
- Specialist and Research controls such as Cytokines, Growth Promoters, Antimicrobials, Cerebral Markers and a variety of single-analyte control products

Randox also produces custom sera for EQA schemes and specialised controls for research projects.

Quality is our focus during the manufacturing process, as all control products are produced to the same high specifications using procedures complying with ISO 13485 for medical devices. State of the art clinical chemistry and immunoassay analysers are used during the manufacturing and quality control processes.

To enable us to identify and fulfil your needs, please discuss your requirements with your Randox representative. We are happy to consider any requirements you may have.

Consolidation

Randox will **significantly consolidate your existing controls**. An average laboratory may rationalise from 7 individual controls 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 lyophilised controls are **stable for up to 4 years, reducing costly lot changes** and enabling use of the same lot over an extended period

Options

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

Flexibility

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

Quality

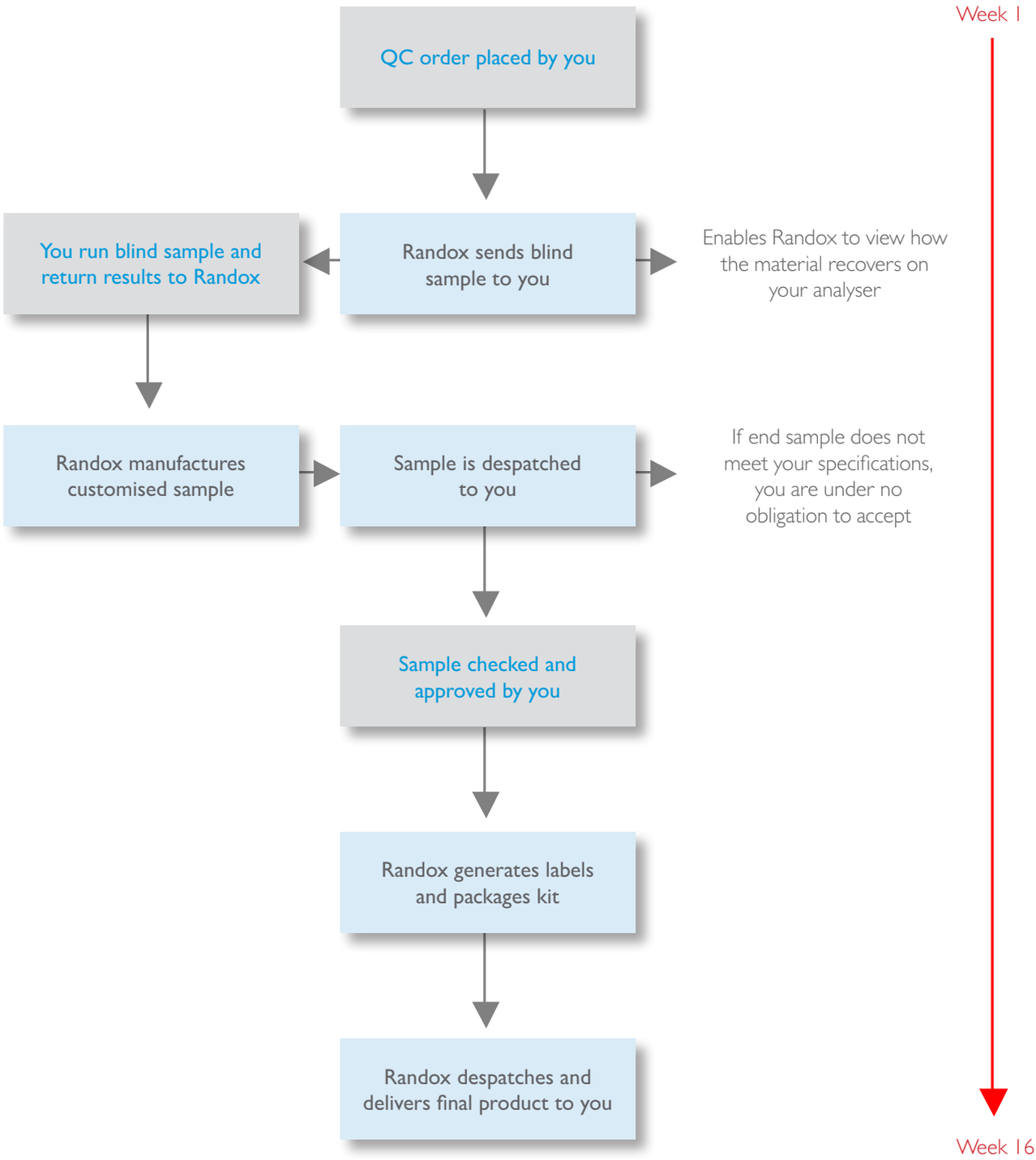
All controls are **produced to high quality specification**, fully compliant with ISO 13485

Choice

3 different formats – lyophilised/liquid/liquid frozen

CUSTOMISED QUALITY CONTROL SERA

Custom Control Timeline



CUSTOMISED QUALITY CONTROL SERA

Antioxidant
- Glutathione Peroxidase
- Glutathione Reductase
- Superoxide Dismutase
- Total Antioxidant Status (TAS)

Blood Gas
- Calcium
- Chloride
- Glucose
- Lactate
- pCO_2
- pH
- pO_2
- Potassium
- Sodium
- Total CO_2

Cardiac
- BNP
- CK (Total)
- CK-MB
- D-dimer
- Digoxin
- Heart-type Fatty Acid-Binding Protein (H-FABP)
- High Sensitivity Troponin T
- Homocysteine
- hs-CRP
- 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
- NGAL
- NSE
- sTNFRI
- Thrombomodulin

Coagulation
- Activated Partial Thromboplastin Time (APTT)
- Antithrombin III (ATIII)
- 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)

CSF
- α-1-Globulin
- α-2-Globulin
- Albumin
- β-Globulin
- Chloride
- γ-Globulin
- Glucose
- Immunoglobulin G (IgG)
- Lactate
- Protein
- Sodium

Cytokine & Growth Factors
- Epidermal Growth Factor (EGF)
- Granulocyte Macrophage Colony-Stimulating Factor (GMCSF)
- Intercellular Adhesion Molecule 1 (ICAM-1)
- Interferon-γ (IFN-γ)
- Interleukin-1 α (IL-1α)
- Interleukin-1 β (IL-1β)
- Interleukin-2 (IL-2)
- Interleukin-3 (IL-3)
- Interleukin-4 (IL-4)
- Interleukin-5 (IL-5)
- 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 α (MIP-1α)
- Matrix Metalloproteinase 9 (MMP-9)
- Monocyte Chemotactic Protein-1 (MCP-1)
- Soluble Interleukin-2 Receptor α (SIL-2Rα)
- Soluble Interleukin-6 Soluble Receptor (SIL-6SR)
- Soluble Tumour Necrosis Factor Receptor-1 (sTNFRI)
- Soluble Tumour Necrosis Factor Receptor-2 (sTNFR2)
- Tumour Necrosis Factor - α (TNF - α)
- Tumour Necrosis Factor - β (TNF - β)
- Vascular Endothelial Growth Factor (VEGF)

Diabetes
- Fructosamine
- HbA1c
- HbA2
- Hbf
- Hbs

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

Drugs of Abuse
- 7-aminoflunitrazepam
- 11-Nor D-9-THC-9-COOH
- Acetaminophen
- Amphetamine
- Barbiturates
- Bath Salts 1+2
- Benzodiazepine
- Benzoylecgonine
- Benzylpiperazines
- Buprenorphine
- Cannabinoids
- Chloral Hydrate Metabolite
- Cocaine Metabolite
- Dextromethorphan
- Ecstasy
- EDDP
- Ethanol
- Ethyl Glucuronide
- Escitalopram
- Fentanyl
- Haloperidol
- Ibuprofen
- Ketamine
- LSD
- Meperidine
- Meprobamate
- Mescaline
- Methadone
- Methamphetamine
- Methaqualone
- Methylphenidate
- MDMA
- Morphine
- Opiates
- Oxazepam
- Oxycodone I
- Oxycodone II
- Phencyclidine
- Phenobarbitone
- Phenylpiperazines
- Propoxyphene
- Salicylate
- Salicyluric Acid
- Salvinorin
- Secobarbital
- Setraline
- Tramadol
- Trazodone
- Tricyclic Antidepressants
- Zoleplon
- Zolpidem
- Zopiclone

Endocrine
- Leptin

This list is not exhaustive. If the analyte you require is not present, please contact your Randox representative.

CUSTOMISED QUALITY CONTROL SERA

Immunoassay
- 17-OH – Progesterone
- 1-25-$(OH)_2$-Vitamin D
- 25-OH-Vitamin D
- α-Fetoprotein (AFP)
- ACTH
- Aldosterone
- Amikacin
- Androstenedione
- Anti-Thyroglobulin (Anti-TG)
- Anti-Thyroperoxidase (Anti-TPO)
- β-2-Microglobulin
- C-Peptides
- CA 15-3
- CA 19-9
- CA 72-4
- CA 125
- Calcitonin
- Carbamazepine
- CEA
- Cortisol
- CYFRA 21-1
- DHEA-Sulphate
- Digoxin
- Estriol
- Estriol (unconjugated)
- Ethosuximide
- Ferritin
- Folate
- Free β-hCG
- FSH
- Gastrin
- Gentamicin
- Growth Hormone (GH)
- hCG
- Immunoglobulin E (IgE)
- Inhibin A
- Insulin
- Insulin Like Growth Factor 1(IGF-1)
- Intact PTH (Parathyroid Hormone)
- Luteinising Hormone (LH)
- Neuron Specific Enolase
- Oestradiol
- Osteocalcin
- PAPP- A
- Paracetamol
- Phenobarbitone
- Phenytoin
- Primidone
- Procalcitonin
- Progesterone
- Prolactin
- PSA (Free)
- PSA (Total)
- Renin
- Salicylate
- Sex Hormone Binding Globulin (SHBG)
- T Uptake
- T3 (Free)
- T3 (Total)
- T4 (Free)
- T4 (Total)
- TBG
- Testosterone
- Testosterone (Free)
- Theophylline
- Thyroglobulin
- Tobramycin
- TSH
- Valproic Acid
- Vancomycin
- Vitamin B_{12}

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

Metabolic Syndrome
- Plasminogen Activator Inhibitor-1
- Resistin

Proteins
- α-1-Acid Glycoprotein
- α-1-Antitrypsin
- α-2-Macroglobulin
- α-Fetoprotein (AFP)
- α-HBDH
- Albumin
- Anti-Streptolysin O (ASO)
- Anti-Thrombin III (AT III)
- β-2-Microglobulin
- Ceruloplasmin
- Complement C3
- Complement C4
- CRP
- Cystatin C
- Ferritin
- Haptoglobin
- Immunoglobulin A (IgA)
- Immunoglobulin E (IgE)
- Immunoglobulin G (IgG)
- Immunoglobulin M (IgM)
- Kappa Light Chain
- Kappa Light Chain (Free)
- Lambda Light Chain
- Lambda Light Chain (Free)
- Prealbumin
- Protein (Total)
- Retinol Binding Protein (RBP)
- Rheumatoid Factor (RF)
- Transferrin

Routine Chemistry
- α-1-Globulin
- α-2-Globulin
- Albumin
- Acid Phosphatase (Prostatic)
- Acid Phosphatase (Total)
- Albumin
- Alkaline Phosphatase (ALP)
- ALT (GPT)
- Amylase
- Amylase (Pancreatic)
- AST (GOT)
- β-1-Globulin
- Bicarbonate
- Bile Acids
- Bilirubin (Direct)
- Bilirubin (Total)
- Cholinesterase
- Calcium
- Calcium (Ionised)
- Chloride
- Copper
- Creatinine
- D-3-Hydroxybutyrate
- γGT
- γ-Globulin
- Glucose
- GLDH
- Iron
- Iron (TIBC)
- Lactate
- Lactate Dehydrogenase (LDH)
- LAP
- Lipase
- Magnesium
- Osmolality
- Phosphate (Inorganic)
- Potassium
- Sodium
- Urea
- Uric Acid (Urate)
- Zinc

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

This list is not exhaustive. If the analyte you require is not present, please contact your Randox representative.

INTER-LABORATORY DATA MANAGEMENT

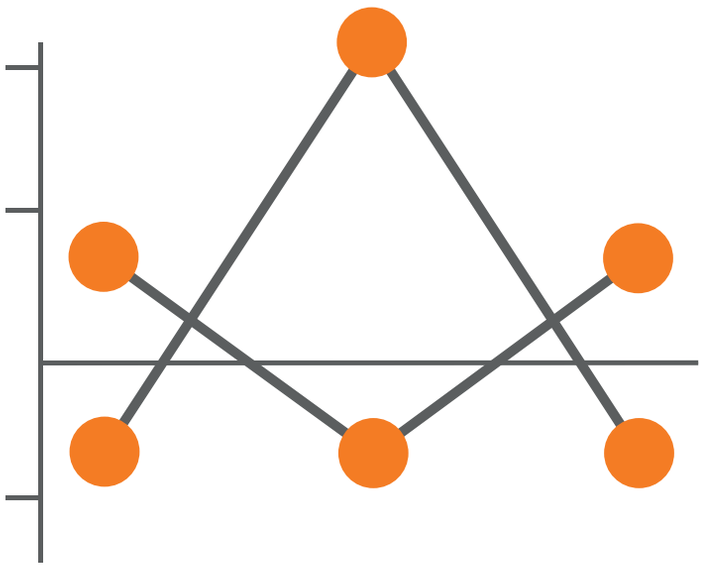
Compatible for use with the Acusera range of third party controls, the Acusera 24•7 software is designed to help laboratories monitor and interpret their QC data. Access to an impressive range of features including interactive charts and real-time peer group data generated from our extensive database of laboratory participants, ensures Acusera 24•7 is the most comprehensive package available.

ACUSERA 24•7

Acusera 24•7 is an interlaboratory data management and peer group reporting package designed to complement the **Acusera** range of third party controls. Using **Acusera 24•7** will help you to improve error detection, reduce false rejections and ensure accurate patient test results.

Why run a peer group reporting program?

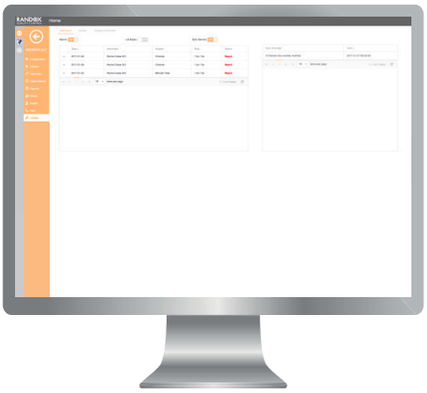
- Quickly identify trends, system errors and reagent issues, minimising expensive repeat tests
- Bridge the gap between daily quality control and external quality assessment
- Improve EQA performance by eliminating any undetected bias
- Facilitate regulatory compliance
- Reduce false rejections through the use of QC multi-rules
- Increase confidence in assigned QC target values
- Carry out rapid and effective troubleshooting leading to shorter delays in reporting



With Acusera 24•7, peer group data is uniquely updated live, in real-time, giving you access to the most up-to-date information available. Access to relevant peer group data enables rapid and effective troubleshooting, it may even help to identify errors earlier.

Dashboard

The unique Dashboard interface displays any alerted or rejected QC results that have fallen outside user-defined performance limits and multi-rules in the last seven days.

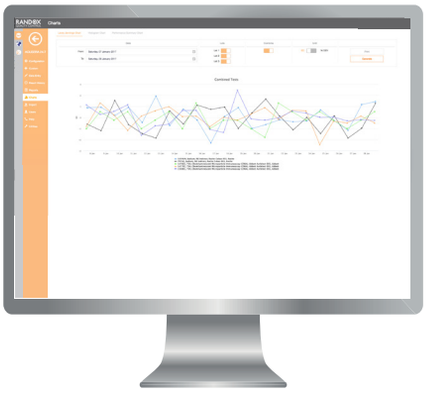


Acusera Advisor

Acusera Advisor is an optional tool designed to help you select an optimum QC strategy for each individual test in use. Not only will the advisor tool recommend a set of QC multi-rules, it will also suggest a minimum QC frequency based on the performance of the method in question.

Interactive Charts

Levey-Jennings, Histogram and Performance Summary Charts are automatically generated by the software. The ability to combine multiple data sets enables you to identify and assess trends in QC data or a bias between instruments. It is also possible to record events such as instrument service/maintenance on Levey-Jennings Charts for faster troubleshooting.

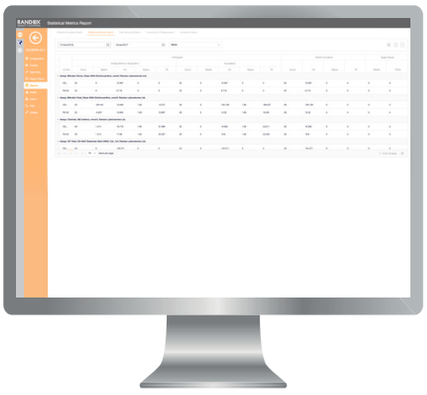


Peer Group Statistics

Peer groups can be customised depending on your instrument, method or reagent supplier. Peer group reporting allows you to compare the performance of your own instrument and/or assay method against other laboratories using the same lot of control. Statistics are uniquely updated live, in real-time, and are generated from our extensive database of laboratory participants.

Advanced Statistical Analysis

The Statistical Metrics Report incorporates %Bias, Total Error and a Sigma score for optimum QC strategy design while the Uncertainty of Measurement Report helps to meet ISO15189:2012 requirements.

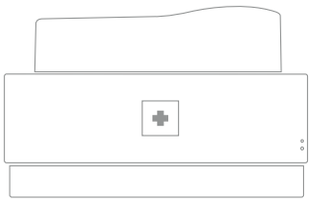


DATA ENTRY OPTIONS

There are three options for QC data entry with Acusera 24•7

Manual result entry

Easily create custom panels for faster result entry of multiple tests at once, with the option to enter single or summarised data for each test or panel.

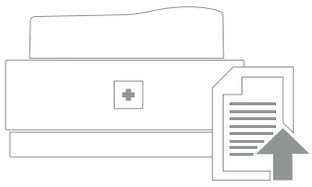


1. Analyser generates QC result.

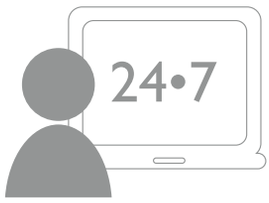
2. QC result is manually entered by the user into the Acusera 24•7 software.

Semi-automated result entry via EDI

EDI is the ideal solution for laboratories that don't want the hassle of manual data input but still want to benefit from a reduction in time and elimination of transcription errors.



1. An export file containing the QC result and associated information is generated by the analyser, LIMS or Middleware.



2. The user imports the EDI file into the Acusera 24•7 software at their desired frequency.

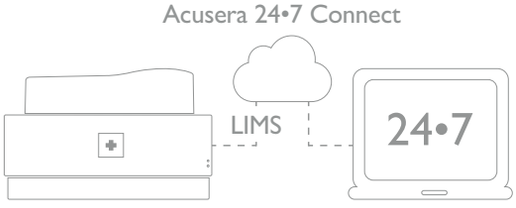
Note: First time users must create a new configuration for the EDI file and carry out EDI mapping.

Fully automated import of QC data direct from your LIMS/Middleware

Automatically capture data directly from your LIMS/Middleware with Acusera 24•7 Connect and import into Acusera 24•7 without the need to import files or manually input data.

- Reduce workload by eliminating manual data entry or file import
- Eliminate transcription errors
- Secure real-time connection without disruption to the laboratory workflow

Several options are available for automated data entry, our Acusera 24•7 Connect team will work directly with you and your IT team to implement the best solution for your lab's requirements.



1. An export file containing the QC result and associated information is generated by the LIMS/Middleware. The Acusera 24•7 Connect software will then securely collect and process QC data directly from the LIMS/Middleware and import to Acusera 24•7.

Note: First time users must create a new configuration for the EDI file and carry out EDI mapping.

Software options

Description	Cat. No.	Description	Cat. No.	Description	Cat. No.	Description	Cat. No.
Acusera 24•7 Platinum	QC4218	Acusera 24•7 Configuration/Mapping	QC4224	Acusera 24•7 Connect Box	QC4227	Installation of Customer Connect Box (Onsite)	QC4230
Acusera 24•7 Gold	QC10232	Acusera 24•7 Training (on-site)	QC4225	Acusera 24•7 Cloud Connect	QC4228	Installation of Customer Connect Box (Remote)	QC4231
Acusera 24•7 Silver	QC10233	Acusera 24•7 Training (remote)	QC4226	Installation of Randox Connect Box (Onsite)	QC4229	Acusera 24•7 End User Cloud Connect*	QC4232

* one connection

EXTERNAL QUALITY ASSESSMENT

EQA is an effective partner to your IQC plans. An EQA scheme, such as RIQAS, utilises 'blind' samples to measure a laboratory's accuracy. These 'blind' samples are analysed by the laboratory as though they are patient samples and the results returned to the scheme organiser for statistical analysis. When the analysis is complete, each participant receives a report enabling them to compare the performance of their laboratory to other participants within their method and instrument groups.

FEATURES AND BENEFITS

RIQAS - Randox International Quality Assessment Scheme

RIQAS is the largest international EQA scheme, used by more than 45,000 laboratory participants in over 133 countries worldwide. This large number of participants ensures an extensive database of results for many analytical methods, directly increasing statistical validity as a result.

Benefits

Large Database of Users

- A high level of participation means peer group numbers are maximised whilst ensuring availability of data for a wide range of instruments and methods.

User-friendly Reports

- Simple one page per parameter format enables at-a-glance performance assessment, saving valuable laboratory time.
- Complimentary multi-instrument and interlaboratory reports allow comparative performance assessment of all laboratory systems and multiple connected laboratories.
- End-of-Cycle reports summarising performance compared to the previous cycle allow you to identify improvements in quality over time.

Cost Effective

- Our extensive range of multi-analyte programmes will reduce the number of individual programmes required to cover your test menu, saving both time and money.
- Reduced parameter options for selected programmes offer greater flexibility, ensuring suitability for laboratories of all sizes and budgets.
- Register up to five instruments per programme at no extra cost for comparative performance assessment.

Frequency

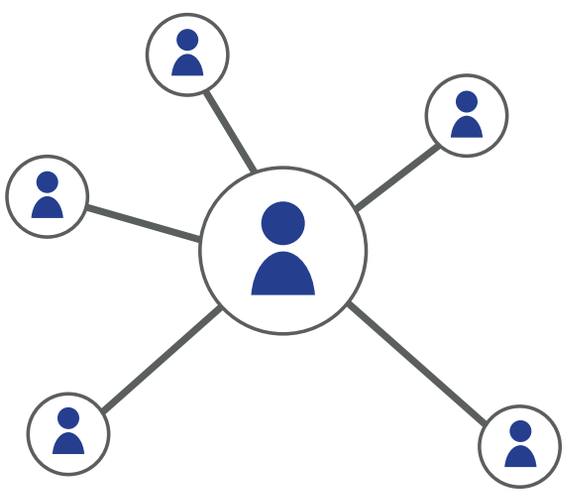
- Frequent reporting allows early identification of system errors and implementation of any necessary corrective actions with minimum disruption to the lab.
- With a turnaround of less than 72 hours for most reports, corrective action can be taken immediately reducing the time spent performing expensive re-tests.

High Quality Samples

- Samples spanning clinically relevant levels, allows identification of concentration related biases and ensures accurate instrument performance.
- Human samples free from interfering preservatives increase confidence that EQA performance mirrors the performance of patient samples.
- Reference method values are provided in the Clinical Chemistry programme for selected parameters and lots.

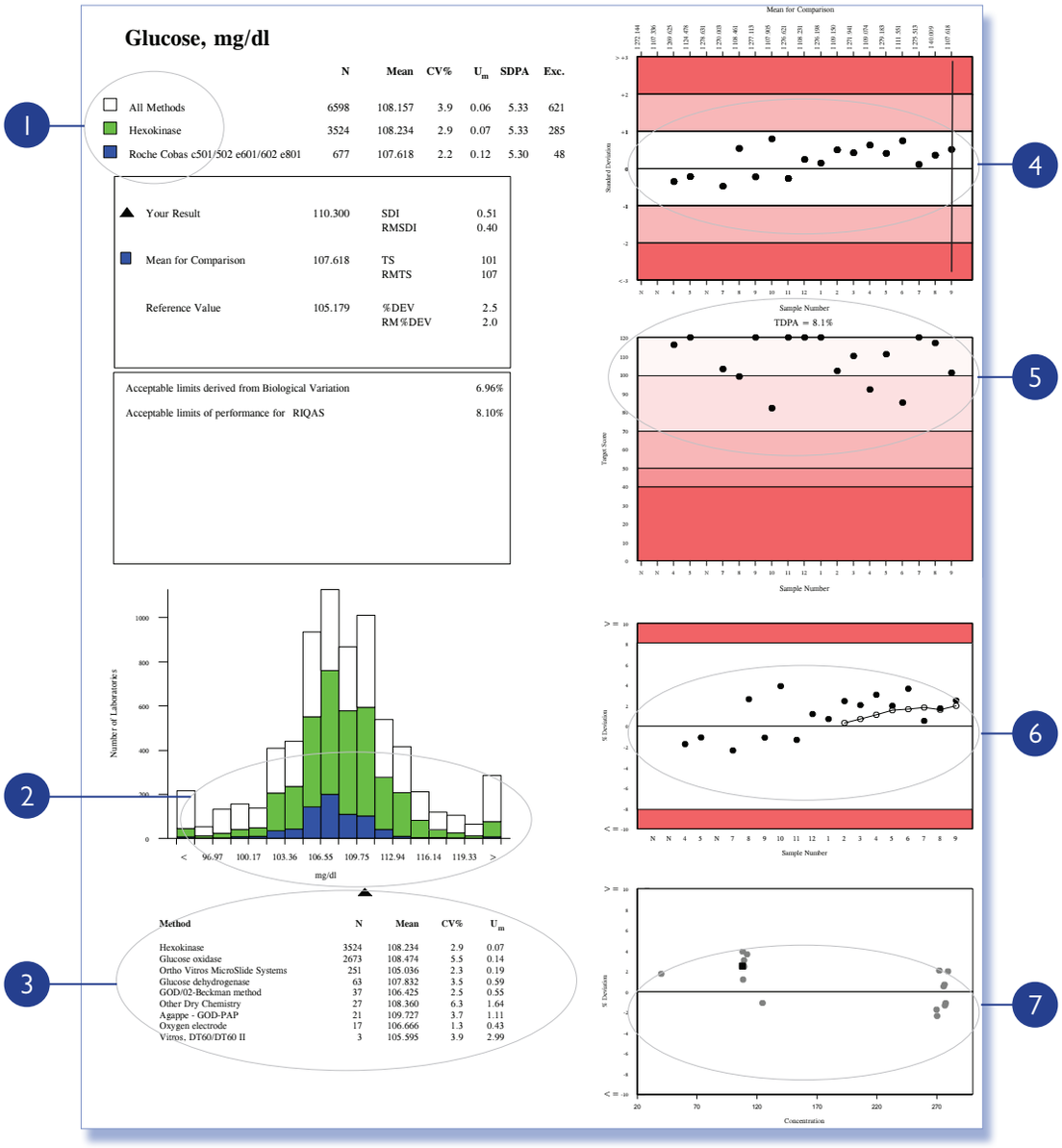
Highly Accredited

- Programmes accepted by National and International accreditation bodies worldwide.
- Participant certificates provide evidence of participation in a reputable EQA scheme.



Participation in an EQA scheme will help produce reliable and accurate reporting of patient results. Quality results will reduce time and labour costs, and most importantly provide accurate patient diagnosis & treatment.

Performance data is presented in a one page per parameter format, with up to seven sub-reports.



1	**Text Section:**	Statistics for all methods, your method and instrument group (programme specific).
2	**Histogram:**	Method and instrument comparison.
3	**Multi-Method Stat Section:**	Enables assessment of the performance of each method.
4	**Levey-Jennings Chart:**	Details features of your laboratory's performance.
5	**Target Score:**	This unique chart provides a numerical index of performance, allowing at-a-glance assessment.
6	**%Deviation by Sample:**	Helps to identify trends and shifts in performance.
7	**%Deviation by Concentration:**	Rapid assessment of concentration related biases.

Note: *This example is for quantitative programmes. Other types of report are also available.*

RIQAS PROGRAMMES

Ammonia/Ethanol Programme+ *With target scoring*

RQ9164 (2 ml)
2 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Ammonia	Ethanol

Anti-TSH Receptor Programme+ *With target scoring*

RQ9174 (1 ml)
1 Parameter
Samples every month, 1 x 12 month cycle, 12 month subscription

Anti-TSH Receptor (TRAb)

Blood Gas Programme *With target scoring*

RQ9134 (1.8 ml)
First registered instrument
10 Parameters

RQ9134/A (1.8 ml)
Subsequent instruments
10 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

pCO_2	CO_2(Total)*	K+	Lactate
pH	Ca++	Na+	
pO_2	Cl-	Glucose	

BNP Programme+ *With target scoring*

RQ9165 (1 ml)
1 Parameter
Samples every month, 1 x 12 month cycle, 12 month subscription

BNP

Cardiac Programme *With target scoring*

RQ9127/a (1 ml)
2 Parameters only (choose from 7)

RQ9127/b (1 ml)
Full 7 Parameters

Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

CK, Total	CK-MB (Mass)	Myoglobin	Troponin T
CK-MB (Activity)	Homocysteine	Troponin I	

Cerebrospinal Fluid Programme+ *With target scoring*

RQ9168 (3 ml)
7 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Albumin	Glucose	Lactate	Sodium
Chloride	IgG	Protein (Total)	

Coagulation Programme *With target scoring*

RQ9135/a (1 ml)
5 Selected parameters only
(aPTT, PT, TT, Fibrinogen, Antithrombin III)

RQ9135/b (1 ml)
Full 17 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

aPTT	Plasminogen	Factor VII	Factor XII
PT (including INR)	Protein C	Factor VIII	D-dimer*
TT	Protein S	Factor IX	
Fibrinogen	Factor II	Factor X	
Antithrombin III	Factor V	Factor XI	

= Liquid ready-to-use samples = Lyophilised samples PURPLE = The only parameters available on RQ9135/a + = Not accredited * = Pilot study ongoing

CO-Oximetry Programme+

RQ9177 (1.2 ml)
First registered instrument
7 Parameters
RQ9177/A (1.2 ml)
Subsequent instruments
7 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Carboxyhaemoglobin (COHb / HbCO)
Deoxyhaemoglobin (HHb)
Methaemoglobin (MetHb)
Oxygen Content (O2CT)
Oxygen Saturation (sO2 / Vol O2)
Oxyhaemoglobin (O2Hb / HbO2)
Total Haemoglobin (tHb)

CYFRA 21-1 Programme+

RQ9175 (1 ml)
1 Parameter
Samples every month, 1 x 12 month cycle, 12 month subscription

CYFRA 21-1 (Cytokeratin 19)

ESR Programme+

RQ9163 (4.5 ml)
1 Parameter
2 samples per quarterly distribution, 1 x 12 month cycle, 12 months subcription

ESR (Erythrocyte Sedimentation Rate)

General Clinical Chemistry Programme *With target scoring*

RQ9112/a (5 ml)
10 Parameters only
RQ9112/b (5 ml)
17 Parameters only
RQ9112/c (5 ml)
Full 52 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription, reference method values

ACE (Angiotensin Converting Enzyme)
Acid Phosphatase (Prostatic)
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase
ALT (ALAT)
Amylase (Pancreatic)
Amylase (Total)
AST (ASAT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Calcium (Ionised)
Chloride
Cholesterol
Cholinesterase
CK, Total (CPK)
Copper
Creatinine
D-3-Hydroxybutyrate
Fructosamine
γGT
GLDH
Glucose
HBDH
HDL-Cholesterol
Iron
Lactate
LD (LDH)
Lipase
Lithium
Magnesium
NEFA
Osmolality
Phosphate (Inorganic)
Potassium
Protein (Total)
PSA
Sodium
TIBC
T_3 (Free)
T_3 (Total)
T_4 (Free)
T_4 (Total)
Triglycerides
TSH
UIBC
Urea
Uric Acid
Zinc

Glycated Haemoglobin Programme (HbA1c) *With target scoring*

RQ9129 (0.5 ml)
2 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

HbA1c
Total Haemoglobin

Haematology Programme *With target scoring*

RQ9118 (2 ml)
11 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

Haematocrit (HCT)
Haemoglobin (Hb)
Mean Cell Haemoglobin (MCH)
Mean Cell Haemoglobin Concentration (MCHC)
Mean Cell Volume (MCV)
Mean Platelet Volume (MPV)
Platelets (PLT)
Plateletcrit (PCT)
Red Blood Cell Count (RBC)
Red Cell Distribution Width (RDW)
Total White Blood Cell Count (WBC)

= Liquid ready-to-use samples
= Lyophilised samples
PURPLE = The only parameters available on RQ9135/a
+ = Not accredited
* = Pilot study ongoing

RIQAS PROGRAMMES

Human Urine Programme *With target scoring*

RQ9115 (10 ml)
25 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

ACR	Creatinine	Normetanephrine	Protein (Total)
Albumin/Microalbumin	Dopamine	Magnesium	Sodium
Amylase	Epinephrine	Osmolality	Urea
Calcium	Glucose	Oxalate	Uric Acid
Chloride	Metanephrine	Phosphate (Inorganic)	VMA
Copper	Norepinephrine	Potassium	5-HIAA
Cortisol			

Immunoassay Programme *With target scoring*

RQ9125/a (5 ml)	RQ9125/b (5 ml)	RQ9125/c (5 ml)	RQ9130 (5 ml)
4 Parameters only (choose from 55)	13 Parameters only (choose from 55)	Full 55 Parameters	Full 55 Parameters

Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c)
Samples every month, 1 x 12 month cycle, 12 month subscription (RQ9130)

ACTH	DHEA Unconjugated	17-OH-Progesterone	T_4 (Free)
AFP	Digoxin	Paracetamol	T_4 (Total)
Aldosterone	Estriol Total*	Phenobarbitone	Testosterone (Free)*
Amikacin	Ethosuximide*	Phenytoin	Testosterone (Total)
Androstenedione	Ferritin	Primidone*	Theophylline
β-2-Microglobulin	Folate	Progesterone	Thyroglobulin
CA125	FSH	Prolactin	Tobramycin*
CA15-3	Gentamicin	PSA (Free)	TSH
CA19-9	GH	PSA (Total)	Valproic Acid
Carbamazepine	hCG	PTH	Vancomycin
CEA	IgE	Salicylate	Vitamin B12
Cortisol	Insulin	SHBG	1-25-$(OH)_2$-Vitamin D*
C-Peptide	LH	T_3 (Free)	25-OH-Vitamin D
DHEA-Sulphate	Oestradiol	T_3 (Total)	

Immunoassay Speciality 1 Programme+ *With target scoring*

RQ9141 (2 ml)
10 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription, reference method values

1-25-$(OH)_2$-Vitamin D*	Anti-TG	Osteocalcin	Insulin
25-OH-Vitamin D	Anti-TPO	Procalcitonin	
C-Peptide	IGF-1	PTH	

Immunoassay Speciality 2 Programme+ *With target scoring*

RQ9142 (2 ml)
5 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription, reference method values

Calcitonin	Procalcitonin	Plasma Renin Activity	Renin (Direct Concentration)
Gastrin			

Immunosuppressant Programme+

RQ9159 (2 ml)
4 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Ciclosporin	Everolimus	Sirolimus	Tacrolimus

Lipid Programme *With target scoring*

RQ9126/a (3 ml)	RQ9126/b (3 ml)
3 Parameters only (choose from 7)	Full 7 Parameters

Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

Apolipoprotein A1	Cholesterol (Total)	LDL-Cholesterol	Triglycerides
Apolipoprotein B	HDL-Cholesterol	Lipoprotein (a)	

= Liquid ready-to-use samples = Lyophilised samples PURPLE = The only parameters available on RQ9135/a + = Not accredited * = Pilot study ongoing

Liquid Cardiac Programme *With target scoring*

RQ9136 (3 ml)
9 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

CK-MB Mass	Homocysteine	Myoglobin	Troponin I
D-dimer	hsCRP	NT proBNP	Troponin T
Digoxin			

Maternal Screening Programme *With target scoring*

RQ9137 (1 ml)
6 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

AFP	Total hCG	PAPP-A	Unconjugated Oestriol
free β-hCG	Inhibin A		

Serology (EBV) Programme+

RQ9153 (1 ml)
3 Parameters
3 samples per quarterly distribution, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-EBV VCA IgG	Anti-EBNA IgG	Anti-EBV VCA IgM

Serology (HIV-Hepatitis) Programme+

RQ9151 (1.8 ml)
10 Parameters
5 samples per quarterly distribution, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-HIV-1	Anti-HCV	Anti-HTLV-II	HBsAg
Anti-HIV-2	Anti-HBc	Anti-HTLV-1&2 Combined	
Anti-HIV-1&2 Combined	Anti-HTLV-I	Anti-CMV	

Serology (Syphilis) Programme+

RQ9154 (1 ml)
1 Parameter
3 samples per quarterly distribution, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Syphilis (Methods available include immunoassay RPR, VDRL and TPHA)

Serology (ToRCH) Programme+

RQ9152 (1 ml)
12 Parameters
5 samples per quarterly distribution, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-Toxoplasma IgG	Anti-Rubella IgM	Anti-HSV1 IgG	Anti-HSV 1 IgM
Anti-Toxoplasma IgM	Anti-CMV IgG	Anti-HSV2 IgG	Anti-HSV 2 IgM
Anti-Rubella IgG	Anti-CMV IgM	Anti-HSV-1&2 IgG Combined	Anti-HSV 1 + 2 IgM Combined

Specific Proteins Programme *With target scoring*

RQ9114 (3 ml) **RQ9160 (2 ml)** **RQ9161 (1 ml)**
26 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

AFP	β-2-Microglobulin	IgA	Lambda Light Chain (Total)
Albumin	Ceruloplasmin	IgE	Prealbumin (Transthyretin)
α-1-Acid glycoprotein	Complement C_3	IgG	Retinol Binding Protein
α-1-Antitrypsin	Complement C_4	IgM	Rheumatoid Factor
α-2-Macroglobulin	C-Reactive Protein	Kappa Light Chain (Free)	Transferrin
Anti Streptolysin O	Ferritin	Kappa Light Chain (Total)	
Antithrombin III	Haptoglobin	Lambda Light Chain (Free)	

= Liquid ready-to-use samples = Lyophilised samples PURPLE = The only parameters available on RQ9135/a + = Not accredited * = Pilot study ongoing

RIQAS PROGRAMMES

Sweat Testing Programme+

RQ9173 (2 ml)
2 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Chloride
Conductivity

Therapeutic Drugs Programme *With target scoring*

RQ9111 (5 ml)
18 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription, Weighed-in values

Amikacin
Caffeine
Carbamazepine
Ciclosporin
Digoxin
Ethosuximide
Gentamicin
Lithium
Methotrexate
Paracetamol (Acetaminophen)
Phenobarbitone
Phenytoin
Primidone
Salicylic Acid
Theophylline
Tobramycin
Valproic Acid
Vancomycin

Trace Elements In Blood Programme+

RQ9172 (3 ml)
7 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Copper
Iodine
Lead
Magnesium
Manganese
Selenium
Zinc

Trace Elements In Serum Programme+

RQ9170 (3 ml)
10 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Aluminium
Chromium
Cobalt
Copper
Iodine
Lead
Manganese
Nickel
Selenium
Zinc

Trace Elements In Urine Programme+

RQ9171 (3 ml)
11 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Cadmium
Chromium
Cobalt
Copper
Iodine
Lead
Magnesium
Manganese
Molybdenum
Nickel
Thallium

Urinalysis Programme+ *With scoring*

RQ9138 (12 ml)
14 Parameters
Samples every 2 months, 1 x 12 month cycle, 12 month subscription

Albumin
Bilirubin
Blood
Creatinine
Galactose
Glucose
hCG
Ketones
Leukocytes
Nitrite
pH
Protein
Specific Gravity
Urobilinogen

Urine Toxicology Programme+

RQ9139 (5 ml)
20 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Benzoylecgonine
Buprenorphine
Cannabinoids (THC)
Cotinine
Creatinine
d-Amphetamine
d-Methamphetamine
EDDP
Ethanol
Free Morphine
Lorazepam
LSD
MDMA
Methadone
Nortriptyline
Norpropoxyphene
Oxazepam
Phencyclidine
Phenobarbitone
Secobarbital

= Liquid ready-to-use samples = Lyophilised samples PURPLE = The only parameters available on RQ9135/a + = Not accredited * = Pilot study ongoing

Whilst every attempt is made to ensure that information is accurate and up-to-date, some information is subject to change, please contact RIQAS for current details.

CALIBRATION VERIFICATION SETS

Specifically designed with convenience in mind, the Acusera Verify range of linearity sets will help you to easily meet CLIA requirements for calibration verification and assessment of linearity.

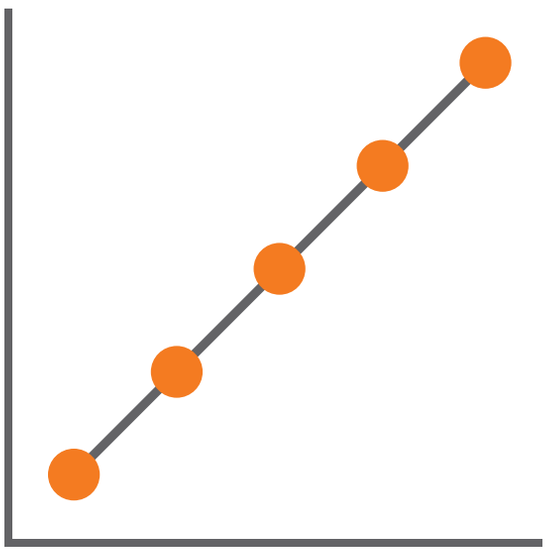
WHAT IS ACUSERA VERIFY?

ACUSERA VERIFY

Our liquid linearity verifiers are supplied in varying levels and are available in multiple configurations to meet the specific requirements of Roche Cobas and Beckman analysers while challenging the complete reportable range. All linearity sets are supplied with complimentary data reduction software, providing instant access to reports and real-time peer group data.

Benefits

- All Acusera Calibration Verification Sets are suppled in a user-friendly liquid format reducing preparation time and the risk of reconstitution errors.
- Covering up to 16 analytes in a single vial you can reduce the number of individual products required to cover your test menu whilst reducing costs and time.
- Each Calibration Verifier contains 5 levels designed to challenge the entire analytical measuring range.
- The availability of instrument dedicated material ensures specific instrument requirements are met.



In order to ensure the highest possible standards in laboratory testing, CLIA has recommended that laboratories perform and document calibration verification procedures at least twice per year and/or in the event of the following;

- Change of reagents
- Instrument maintenance
- Poor QC results
- New instrument

C-Reactive Protein (CRP) Linearity Verifiers

This dedicated CRP Linearity Verifier is supplied in a liquid ready-to-use format, specifically for use on Roche Cobas analysers. This verifier is designed to objectively verify calibration whilst remaining convenient and easy to use. There are five distinct levels provided that span the instrument's complete reportable range.

- Convenient, liquid ready-to-use format
- 5 levels provided
- 14 day stability when stored at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
CRP Linearity Verifier	5 x 1 ml	LV10334

High Sensitivity C-Reactive Protein (hsCRP) Linearity Verifier

Dedicated hsCRP Linearity Verifier supplied in a liquid ready-to-use format specifically for use on Roche Cobas analysers. Designed to objectively verify calibration whilst remaining convenient and easy to use, there are five distinct levels provided that span the instrument's complete reportable range.

- Convenient, liquid ready-to-use format
- 5 levels provided
- 14 day stability when stored at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
hsCRP Linearity Verifier	5 x 1 ml	LV10335

Esoterics Linearity Verifier

Analytes			
Acetaminophen	Ethanol	Urinary Protein	Salicylate
Ammonia	Microalbumin		

Our Esoterics Linearity Verifier comprises 6 analytes and is supplied in a liquid ready-to-use format specifically for use on Roche Cobas analysers. Designed to objectively verify calibration whilst remaining convenient and easy to use, there are five distinct levels provided that span the instrument's complete reportable range.

- Convenient, liquid ready-to-use format
- 5 levels provided
- 14 day stability when stored at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Esoterics Linearity Verifier	5 x 3 ml	LV10336

SOLUTIONS FOR ROCHE COBAS ANALYSERS

Rheumatoid Factor (RF) Linearity Verifier

Dedicated Rheumatoid Factor (RF) Linearity Verifier supplied in a liquid ready-to-use format specifically for use on Roche Cobas analysers. Designed to objectively verify calibration whilst remaining convenient and easy to use, there are five distinct levels provided that span the instrument's complete reportable range.

- Convenient, liquid ready-to-use format
- 5 levels provided
- 14 day stability when stored at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Rheumatoid Factor (RF) Linearity Verifier	5 x 1 ml	LV10343

Lipids Linearity Verifier

Analytes			
HDL Cholesterol	LDL Cholesterol	Total Cholesterol	Triglycerides

Our Lipids Linearity Verifier comprises 4 common lipid assays and is specifically designed for use on Roche Cobas analysers. Five levels are available and span the instrument's complete reportable range. Designed in a liquid frozen format, this linearity verifier will objectively verify calibration of the instrument whilst remaining convenient and easy to use.

- Convenient, liquid frozen format
- 5 levels provided
- Open vial stability of 14 days at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Lipids Linearity Verifier	5 x 3 ml	LV10344

Apolipoprotein A1 (Apo A1) & Apolipoprotein B (Apo B) Linearity Verifier

Analytes	
Apolipoprotein A-1 (Apo A-1)	Apolipoprotein B (Apo B)

Dedicated Linearity Verifier for measuring Apo A-1 and Apo B on Roche Cobas analysers. Supplied in a liquid frozen format this linearity verifier will objectively verify calibration of the instrument whilst remaining convenient and easy to use. Five levels are provided spanning the instrument's reportable range.

- Convenient, liquid frozen format
- 5 levels provided
- Open vial stability of 14 days at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Apolipoproteins Linearity Verifier	5 x 3 ml	LV10357

Therapeutic Drug Monitoring (TDM) Linearity Verifier

Analytes			
Acetaminophen	Gentamicin	Phenytoin	Theophylline
Amikacin	Lithium	Procainamide	Tobramycin
Carbamazepine	N-Acetylprocainamide	Quinidine	Valproic Acid
Digoxin	Phenobarbitone	Salicylate	Vancomycin

Our Therapeutic Drug Monitoring (TDM) Linearity Verifier comprises 16 commonly tested drugs in a single vial. Dedicated for use on Roche Cobas systems, and available in a liquid frozen format, this verifier is convenient and easy to use. Five levels span the instrument's entire reportable range.

- Convenient, liquid frozen format
- 5 levels provided
- Open vial stability of 14 days at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Therapeutic Drug Monitoring Linearity Verifier	5 x 5 ml	LV10355

CO_2 and Electrolytes Linearity Verifier

Analytes			
CO_2	Sodium	Potassium	Chloride

Dedicated Linearity Verifier for the measurment of CO_2 and electrolytes on Roche Cobas analysers. This verifier is supplied in a liquid ready-to-use format and can be used to objectively verify calibration of the instrument. Five levels are available spanning the instrument's complete reportable range.

- Convenient, liquid ready-to-use format
- 5 levels provided
- 7 day stability when stored at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
CO_2 and Electrolytes Linearity Verifier	5 x 5 ml	LV10362

SOLUTIONS FOR ROCHE COBAS ANALYSERS

Bilirubin Linearity Verifier

Analytes	
Direct Bilirubin	Total Bilirubin

Our Bilirubin verifier contains both Direct Bilirubin and Total Bilirubin so testing is fully covered. Dedicated for use on Roche Cobas systems, this verifier coming in a lyophilised format and spans five levels ensuring the instruments entire reportable range is measured.

- Lyophilised for enhanced stability
- 5 levels provided
- Open vial stability of 10 days when stored at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Bilirubin Linearity Verifier	5 x 3 ml	LV10356

Enzyme Linearity Verifier

Analytes			
ALT	Pancreatic Amylase	CKMB	Lipase
ALP	AST	γGT	
α-Amylase	CK	LDH	

Our Enzyme Linearity Verifier contains 10 commonly tested enzymes in one unique multi-marker verifier allowing you to consolidate testing. Spanning 5 clinical levels, this verifier ensures the systems entire reportable range is measured. Designed specifically for Roche Cobas systems, our Verifier is available in a convenient liquid frozen format.

- Convenient, liquid frozen format
- 5 levels provided
- Open vial stability of 10 days at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Enzyme Linearity Verifier	5 x 3 ml	LV10366

Apolipoprotein (Apo A1) & Apolipoprotein B (Apo B) Linearity Verifier

Analytes	
Apolipoprotein A1	Apolipoprotein B

Dedicated Linearity Verifier for measuring Apo A-1 and Apo B on Beckman Coulter analysers. Spanning 5 levels designed to challenge the instruments reportable range, this verifier will objectively verify calibration of the instrument whilst remaining convenient to use.

- Convenient, liquid frozen format
- 5 levels provided
- Open vial stability of 14 days at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Apolipoproteins Linearity Verifier	5 x 3 ml	LV10363

Lipids Linearity Verifier

Analytes	
HDL Cholesterol LDL Cholesterol	Triglycerides

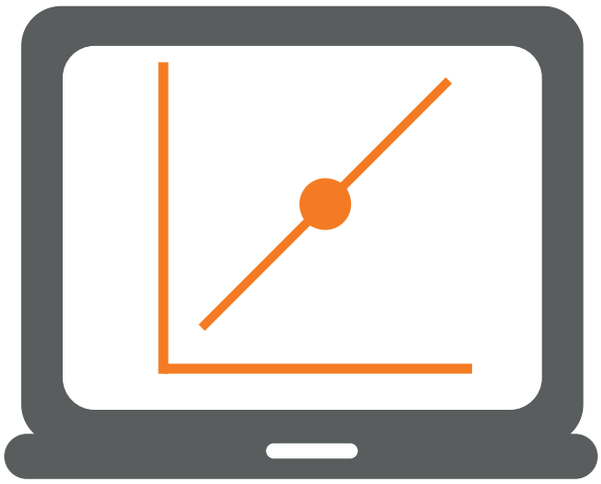
Our Lipids Linearity Verifier comprises 3 common lipid assays and is specifically designed for use on Beckman Coulter analysers. Five levels are available and span the instrument's complete reportable range. Designed in a liquid frozen format, this linearity verifier will objectively verify calibration of the instrument whilst remaining convenient and easy to use.

- Convenient, liquid frozen format
- 5 levels provided
- Open vial stability of 14 days at 2°C to 8°C
- Shelf life up to 2 years from date of manufacture

Description	Size	Cat. No.
Lipids Linearity Verifier	5 x 3 ml	LV10364

DATA REDUCTION SOFTWARE

Complimentary data reduction software is available for use with all Randox calibration verification sets, delivering instant access to a wide range of functionality to make the data review process faster.



Providing instant access to automatically generated charts, statistics and real-time peer group data, the Acusera Verify software is designed to significantly reduce the time spent analysing data, facilitating immediate laboratory decisions.

- Cloud based software allowing convenient access from anywhere in the lab
- Intuitive user-friendly interface with simple data entry functionality
- Easy-to-interpret, interactive charts for at-a-glance performance assessment
- Automatically generated statistics
- Peer group data updated live in real-time for faster troubleshooting

Did you know you can manage both daily QC activities and calibration verification on one centralised platform?

Find out more at www.randoxqc.com

ANALYTE INDEX

Approximately 70% of clinical decisions are based on laboratory test results. Poor laboratory quality can result in unreliable test results, ultimately leading to misdiagnosis, inappropriate treatment and may even be potentially life threatening to your patient. Availability of comprehensive controls covering the full spectrum of laboratory tests is critical in order to assure quality of testing.

ANALYTE INDEX

- Antioxidant Controls
- Blood Gas Controls
- Cardiac Controls
- Clinical Chemistry Controls
- Coagulation & Haematology Controls
- Diabetes & Whole Blood Controls
- Immunoassay Controls
- Immunology/Protein Controls

		Page	08	08	08	08	11	14	14	15	15	15	16	16	19	20	21	22	23	24	24	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	42	45	45	46	46
			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	$SPLA_2$-IIA Control and Calibrator	Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Specialty I Control	Immunoassay Specialty II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator
#	5-HIAA																																													
	7-amino flunitrazepam																																													
	11 dhTXB$_2$																									×																				
	17-OH-progesterone																																	×		×	×								
	17β Clostebol																																													
	1-25-(OH$_2$)-Vitamin D																																			×	×	×								
	25-OH-Vitamin D																																			×	×	×								
A	α-1-Acid Glycoprotein														×	×		×																									×		×		
	α-1-Antitrypsin														×	×		×																									×		×		
	α-1-Globulin (Electrophoresis)															×	×	×																													
	α-2-Globulin (Electrophoresis)															×	×	×																													
	α-2-Macroglobulin																																										×				
	α-Fetoprotein (AFP)														×	×		×																		×		×	×			×	×	×		
	α-HBDH														×	×	×	×	×	×																												
	Acetaminophen																																														
	Acid Phosphatase (Non-Prostatic)																×		×	×																											
	Acid Phosphatase (Prostatic)														×	×	×		×	×																											
	Acid Phosphatase (Total)														×	×	×	×	×	×																											
	ACTH																																				×	×								
	Activated Partical Thromboplastin Time (APTT)																										×																			
	Adiponectin																																	×												
	AHD																																													
	Albumin														×	×	×	×	×	×																											
	Albumin (Electrophoresis)															×	×	×																											
	Aldolase																					×																							
	Aldosterone																																		×		×	×								
	Alkaline Phosphatase (ALP)														×	×	×	×	×	×																											
	ALT (GPT)														×	×	×	×	×	×																											
	Amikacin															×		×																		×		×	×							
	Ammonia																				×				×																					
	AMOZ																																													
	Amphetamine																																													
	Amylase														×	×	×	×	×	×																											
	Amylase (Pancreatic)														×	×	×	×		×																											
	Androstenedione																																				×	×								
	Anti-HAV																																													
	Anti-HBc																																													
	Anti-Hbe																																													
	Anti-HBs																																													
	Anti-HCV																																													
	Anti-HIV 1 / 2																																													
	Anti-HTLV 1 / 2																																													
	Anti-Streptolysin (ASO)																																											×	×		
	Anti-Thyroglobulin (Anti-TG)																																							×							
	Anti-Thyroperoxidase (Anti-TPO)																																							×							
	Anti-Thrombin III (AT III)																										×																				
	AOZ																																														
	Apolipoprotein A-I														×	×	×	×																													
	Apolipoprotein A-II																																														

ANALYTE INDEX

Immunology/Protein Controls
Infectious Disease Controls (Serology)
Lipid Controls
Speciality & Research Controls
Therapeutic Drug Controls
Toxicology Controls
Urine Controls

CSF Control	Liquid CSF Control	ASO Standard	β-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	High Sensitivity IgG Control and Calibrator	Rheumatoid Factor Calibrator Series	sTfR Control and Calibrator Series	Lyme Disease (*Borrelia burgdorferi*) Control	ToRCH Controls	Epstein Barr Virus (EBV) Control	Serology Controls	Lipid Control	Liquid Lipid Control	Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	HDL-3 Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Array II Control	Cytokine Array Controls and Calibrator Series	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array I Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators	Cannabinoid Control and Calibrator	Ecstasy Control and Calibrator	EDDP Control and Calibrator	Multidrug Control	Benzodiazepines Control and Calibrator	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Low Level hCG Control	Microalbumin Control and Calibrator		
47	47	47	48	48	48	49	49	49	49	52	52	53	53	56	56	57	57	58	58	58	61	61	62	62	63-64	64	65	65-66	66	69	72	72	72	73	73	74	74	74	74	75	75	75	78	78	79	79	79		
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																																													25-OH-Vitamin D	
																																													α-1-Acid Glycoprotein	A
																																													α-1-Antitrypsin	
×	×																																												α-1-Globulin (Electrophoresis)	
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																																×														Amphetamine	
																																														Amylase	
																																														Amylase (Pancreatic)	
																																														Androstenedione	
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																	×																														Apolipoprotein A-II	

ANALYTE INDEX

Antioxidant Controls
Blood Gas Controls
Cardiac Controls
Clinical Chemistry Controls
Coagulation & Haematology Controls
Diabetes & Whole Blood Controls
Immunoassay Controls
Immunology/Protein Controls

		Page	08	08	08	08	11	14	14	15	15	15	15	16	16	19	20	21	22	23	24	24	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	42	45	45	46	46
			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	SPLA$_2$-IIA Control and Calibrator		Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Specialty I Control	Immunoassay Specialty II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator
A	Apolipoprotein B															×		×	×																												
	Apolipoprotein C-II																																														
	Apolipoprotein C-III																																														
	Apolipoprotein E																																														
	AST (GOT)															×	×	×	×	×	×																										
B	β-Globulin (Electrophoresis)																×	×	×																												
	β-2-Microglobulin																×		×																		×		×	×			×	×			
	β-Agonists (Clenbuterol)																																														
	Barbiturates																																														
	BASO-X																												×																		
	BASO-Y																												×																		
	Basophils (BASO)																												×																		
	Basophils % (% BASO)																												×																		
	Bath Salts 1																																														
	Bath Salts 2																																														
	Benzodiazepines 1 + 2																																														
	Benzoylecgonine (Cocaine)																																														
	Benzylpiperazines																																														
	Bicarbonate						×									×	×	×	×	×	×																										
	Bile Acids															×	×	×	×	×	×																										
	Bilirubin (Direct)															×	×	×	×	×	×			×																						
	Bilirubin (Total)															×	×	×	×	×	×			×																						
	Blood																																														
	BNP								×																																						
	Boldenone																																														
	Borrelia burgdorferi IgG																																														
	Borrelia burgdorferi IgM																																														
	Buprenorphine																																														
C	C-Peptide																																						×	×	×							
	CA 15-3																																							×		×	×					
	CA 19-9																																							×		×	×					
	CA 27-29																																										×				
	CA 72-4																																										×	×			
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	Caffeine																×		×																												
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	Cannabinoids																																														
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	Ceftiofur																																														
	Ceruloplasmin															×	×		×																										×	×	
	Chloral Hydrate Metabolite																																														
	Chloramphenicol																																														
	Chloride						×									×	×	×	×	×	×																										
	Cholesterol (HDL)															×	×	×	×																												
	Cholesterol (LDL)																×		×																												
	Cholesterol (Total)															×	×	×	×	×	×																										
	Cholinesterase															×	×	×	×		×																										

ANALYTE INDEX

Analyte	Page	CSF Control	Liquid CSF Control	ASO Standard	β-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	High Sensitivity IgG Control and Calibrator	Rheumatoid Factor Calibrator Series	sTfR Control and Calibrator Series	Lyme Disease (*Borrelia burgdorferi*) Control	ToRCH Controls	Epstein Barr Virus (EBV) Control	Serology Controls	Lipid Control	Liquid Lipid Control	Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	HDL-3 Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Array II Control	Cytokine Array Controls and Calibrator Series	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array I Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators	Cannabinoid Control and Calibrator	Ecstasy Control and Calibrator	EDDP Control and Calibrator	Multidrug Control	Benzodiazepines Control and Calibrator	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Low Level hCG Control	Microalbumin Control and Calibrator	
	47	47	47	47	48	48	48	49	49	49	49	52	52	53	53	56	56	57	57	58	58	58	61	61	62	62	63-64	64	65	65-66	66	69	72	72	72	73	73	74	74	74	75	75	75	78	78	79	79	79	
Apolipoprotein B																×			×																														A
Apolipoprotein C-II																			×																													
Apolipoprotein C-III																			×																													
Apolipoprotein E																			×																													
AST (GOT)																																															
β-Globulin (Electrophoresis)		×	×																																											B
β-2-Microglobulin					×																																										
β-Agonists (Clenbuterol)																								×																						
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Basophils (BASO)																																													
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Bath Salts 1																																						×							
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Benzodiazepines 1 + 2																																		×											
Benzoylecgonine (Cocaine)																																		×								×			
Benzylpiperazines																																						×							
Bicarbonate																																													
Bile Acids																																													
Bilirubin (Direct)																																											×		
Bilirubin (Total)																																											×		
Blood																																											×		
BNP																																													
Boldenone																								×																						
Borrelia burgdorferi IgG												×																																		
Borrelia burgdorferi IgM												×																																		
Buprenorphine																																		×	×											
C-Peptide																														×																C
CA 15-3																																														
CA 19-9																																													
CA 27-29																																													
CA 72-4																																													
CA 125																																													
Caffeine																																×													
Calcitonin																																													
Calcium																																											×	×		
Cannabinoids																																		×					×						
Carbamazepine																																×													
CEA																											×																		
Ceftiofur																							×																							
Ceruloplasmin																																													
Chloral Hydrate Metabolite																																				×									
Chloramphenicol																							×																						
Chloride		×	×																																								×	×		
Cholesterol (HDL)																×	×	×																													
Cholesterol (LDL)																×	×	×																													
Cholesterol (Total)																×	×																													
Cholinesterase																																													

Immunology/Protein Controls
Infectious Disease Controls (Serology)
Lipid Controls
Speciality & Research Controls
Therapeutic Drug Controls
Toxicology Controls
Urine Controls

ANALYTE INDEX

Antioxidant Controls
Blood Gas Controls
Cardiac Controls
Clinical Chemistry Controls
Coagulation & Haematology Controls
Diabetes & Whole Blood Controls
Immunoassay Controls
Immunology/Protein Controls

		Page	08	08	08	08	11	14	14	15	15	15	15	16	16	19	20	21	22	23	24	24	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	41	42	45	45	46	46
			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	SPLA$_2$-IIA Control and Calibrator		Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Specialty I Control	Immunoassay Specialty II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator
C	CK-MB							×			×																																					
	CK (Total)							×								×	×	×	×	×	×																											
	Complement C3															×	×		×																									×	×		
	Complement C4															×	×		×																									×	×		
	Copper															×	×	×	×	×	×																										
	Corticosteroids																																														
	Cortisol															×	×	×	×	×	×															×		×	×							
	CRP															×	×		×																												×	×		×
	Creatinine															×	×	×	×	×	×																											
	Cyclosporine																																															
	Cytomegalovirus (CMV) IgG																																															
	Cytomegalovirus (CMV) IgM																																															
	CYFRA 21																																															
	Cystatin C																																															
D	D-3-Hydroxybutyrate															×	×	×	×	×	×																											
	D-dimer																																															
	Dextromethorphan																																															
	DHEA-Sulphate																×		×																	×		×	×							
	DIFF-X																												×																		
	DIFF-Y																												×																		
	Digoxin															×	×	×	×																	×		×	×							
	Dopamine																																															
E	E-Selectin (E-SEL)																																															
	EDDP																																															
	Eosinophils (EOS)																												×																		
	% Eosinophils (% EOS)																												×																		
	Epidermal Growth Factor (EGF)																																															
	Epinephrine																																															
	Epstein Barr Virus (EBV) EBNA IgG																																															
	Epstein Barr Virus (EBV) IgM																																															
	Epstein Barr Virus (EBV) VCA IgG																																															
	Escitalopram																																															
	Estriol																																					×		×	×							
	Ethanol																×		×			×																										
	Ethinylestradiol																																															
	Ethosuximide																																					×		×	×							
	Ethyl Glucuronide																																															
F	Factor II																											×																				
	Factor V																											×																				
	Factor VII																											×																				
	Factor VIII																											×																				
	Factor IX																											×																				
	Factor X																											×																				
	Factor XI																											×																				
	Factor XII																											×																				
	Fentanyl																																															
	Ferritin															×	×		×																	×		×	×			×	×				
	Fibrinogen																											×																				
	Fluoxetine																																															

ANALYTE INDEX

Page

CSF Control	47
Liquid CSF Control	47
ASO Standard	47
β-2-Microglobulin Calibrator	48
Cystatin C Control and Calibrator	48
Immunoglobulin Liquid Protein Calibrator	48
IgE Calibrator	49
High Sensitivity IgG Control and Calibrator	49
Rheumatoid Factor Calibrator Series	49
sTfR Control and Calibrator Series	49
Lyme Disease (*Borrelia burgdorferi*) Control	52
ToRCH Controls	52
Epstein Barr Virus (EBV) Control	53
Serology Controls	53
Lipid Control	56
Liquid Lipid Control	56
Direct LDL/HDL Cholesterol Calibrator	57
Apolipoprotein Control and Calibrators	57
Lipoprotein (a) Control and Calibrator	58
sLDL Control and Calibrator	58
HDL-3 Control and Calibrator	58
Antimicrobial Controls	61
Growth Promoter Control	61
Adhesion Molecules Control and Calibrator	62
Cerebral Array II Control	62
Cytokine Array Controls and Calibrator Series	63-64
Evidence Immunoassay Control	64
Synthetic Steroids Control and Calibrator	65
Metabolic Sydrome Controls and Calibrators	65-66
Thyroid Calibrators	66
Therapeutic Drug Control and Calibrator	69
Ethanol Calibrator/Control Set	72
Drugs of Abuse Array I Plus Controls and Calibrators	72
Drugs of Abuse Array II Controls and Calibrators	72
Drugs of Abuse Array III Controls and Calibrators	73
Drugs of Abuse Array IV Controls and Calibrators	73
Drugs of Abuse Array V Controls and Calibrators	74
Cannabinoid Control and Calibrator	74
Ecstasy Control and Calibrator	74
EDDP Control and Calibrator	75
Multidrug Control	75
Benzodiazepines Control and Calibrator	75
Assayed Urine Control	78
Liquid Urine Control	78
Urinalysis Control	79
Low Level hCG Control	79
Microalbumin Control and Calibrator	79

Immunology/Protein Controls
Infectious Disease Controls (Serology)
Lipid Controls
Speciality & Research Controls
Therapeutic Drug Controls
Toxicology Controls
Urine Controls

CK-MB	C
CK (Total)	
Complement C3	
Complement C4	
Copper	
Corticosteroids	
Cortisol	
CRP	
Creatinine	
Cyclosporine	
Cytomegalovirus (CMV) IgG	
Cytomegalovirus (CMV) IgM	
CYFRA 21	
Cystatin C	
D-3-Hydroxybutyrate	D
D-dimer	
Dextromethorphan	
DHEA-Sulphate	
DIFF-X	
DIFF-Y	
Digoxin	
Dopamine	
E-Selectin (E-SEL)	E
EDDP	
Eosinophils (EOS)	
% Eosinophils (% EOS)	
Epidermal Growth Factor (EGF)	
Epinephrine	
Epstein Barr Virus (EBV) EBNA IgG	
Epstein Barr Virus (EBV) IgM	
Epstein Barr Virus (EBV) VCA IgG	
Escitalopram	
Estriol	
Ethanol	
Ethinylestradiol	
Ethosuximide	
Ethyl Glucuronide	
Factor II	F
Factor V	
Factor VII	
Factor VIII	
Factor IX	
Factor X	
Factor XI	
Factor XII	
Fentanyl	
Ferritin	
Fibrinogen	
Fluoxetine	

ANALYTE INDEX

Antioxidant Controls
Blood Gas Controls
Cardiac Controls
Clinical Chemistry Controls
Coagulation & Haematology Controls
Diabetes & Whole Blood Controls
Immunoassay Controls
Immunology/Protein Controls

		Page	08	08	08	08	11	14	14	15	15	15	16	16	19	20	21	22	23	24	24	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	42	45	45	46	46
			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	SPLA$_2$-IIA Control and Calibrator	Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Specialty I Control	Immunoassay Specialty II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator
F	Folate														×	×	×	×																	×		×	×								
	Fructosamine																															×													
	FSC-X																											×																	
	FSH															×		×																	×		×	×								
G	G-6-PDH																														×															
	γ-Globulin (Electrophoresis)															×	×	×																												
	γGT														×	×	×	×	×	×																										
	Gastrin																																						×							
	Gentamicin														×	×	×	×																	×		×	×								
	Gestagens (Generic)																																													
	GLDH														×	×	×	×	×	×																										
	Glucose						×								×	×	×	×	×	×					×																					
	Glutamate																								×																				
	Glutamine																									×																			
	Glutathione Peroxidase (Ransel)			×																																										
	Glutathione Reductase	×																																												
	Glycerol																							×																					
	GM-CSF																																													
	Growth Hormone (GH)															×																						×	×							
H	H-FABP												×																																	
	Haematocrit (HCT)																											×																	
	Haemoglobin (HGB)																											×																	
	Haemoglobin A2 (HbA2)																																	×											
	Haemoglobin F (HbF)																																	×											
	Haemoglobin S (HbS)																																	×											
	Haemoglobin (Total)																												×																
	Haemopioetic Progenitor Cell (HPC)																											×																	
	Haloperidol																																													
	Haptoglobin														×	×		×																											×	×		
	HAV IgM																																													
	HbA1c																												×	×																
	HBc IgM																																													
	HbeAg																																													
	HBsAg																																													
	hCG														×	×		×																	×		×	×				×				
	Free β-hCG																																											×			
	Total β-hCG																																										×	×			
	HDL-3																																														
	Helicobacter pylori IgG																																													
	Herpes Simplex Virus 1 (HSV-1) IgG																																													
	Herpes Simplex Virus 1 (HSV-1) IgM																																													
	Herpes Simplex Virus 2 (HSV-2) IgG																																													
	Herpes Simplex Virus 2 (HSV-2) IgM																																													
	HIV P24Ag																																													
	Homocysteine							×																																							
I	Ibuprofen																																													
	IMIDC																											×																	
	IMIRF																											×																	
	Immature Granulocytes (IG)																											×																	

ANALYTE INDEX

Immunology/Protein Controls
Infectious Disease Controls (Serology)
Lipid Controls
Speciality & Research Controls
Therapeutic Drug Controls
Toxicology Controls
Urine Controls

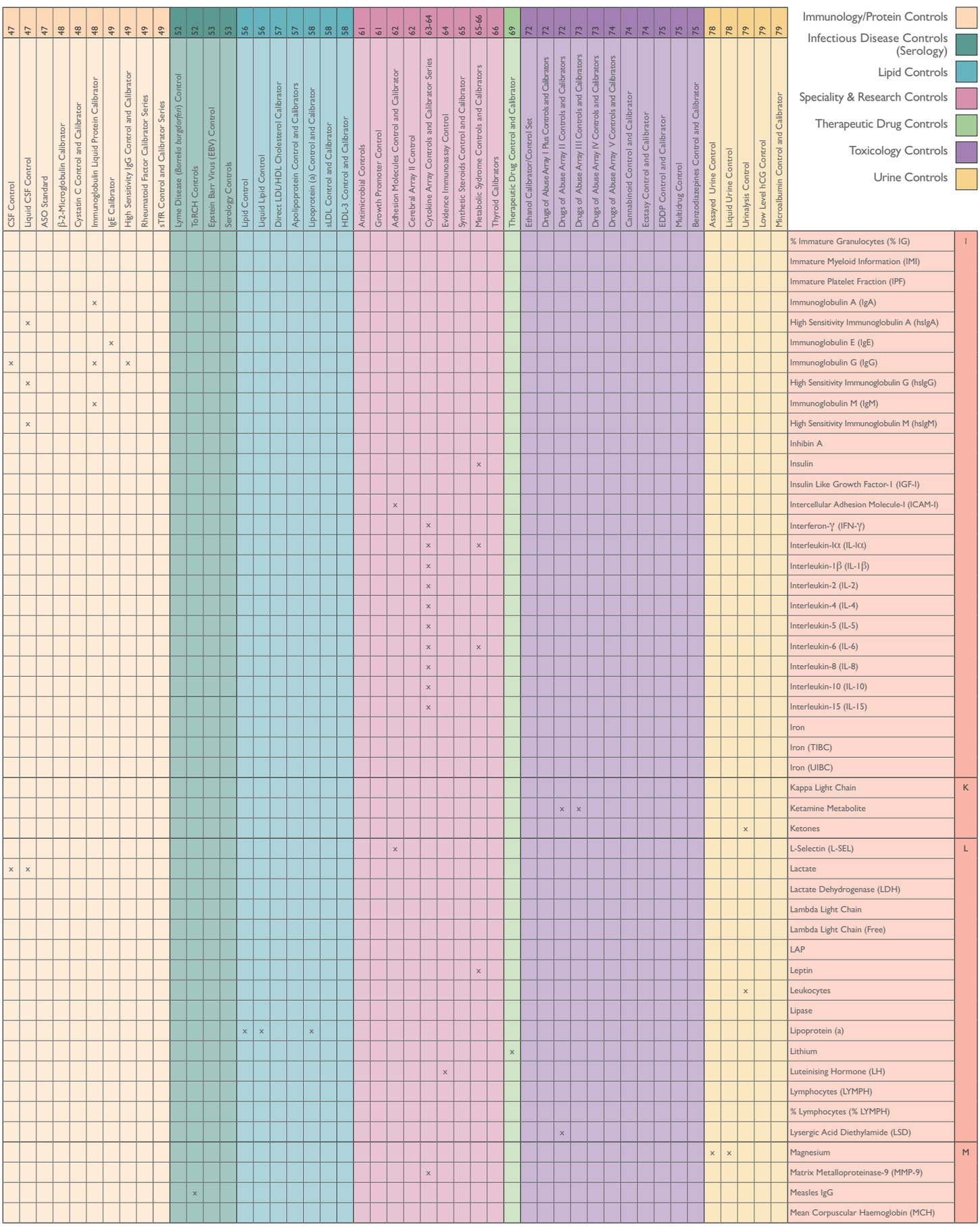
Analyte	CSF Control (Page 47)	Liquid CSF Control (47)	ASO Standard (47)	β-2-Microglobulin Calibrator (48)	Cystatin C Control and Calibrator (48)	Immunoglobulin Liquid Protein Calibrator (48)	IgE Calibrator (49)	High Sensitivity IgG Control and Calibrator (49)	Rheumatoid Factor Calibrator Series (49)	sTfR Control and Calibrator Series (49)	Lyme Disease (*Borrelia burgdorferi*) Control (52)	ToRCH Controls (52)	Epstein Barr Virus (EBV) Control (53)	Serology Controls (53)	Lipid Control (56)	Liquid Lipid Control (56)	Direct LDL/HDL Cholesterol Calibrator (57)	Apolipoprotein Control and Calibrators (57)	Lipoprotein (a) Control and Calibrator (58)	sLDL Control and Calibrator (58)	HDL-3 Control and Calibrator (58)	Antimicrobial Controls (61)	Growth Promoter Control (61)	Adhesion Molecules Control and Calibrator (62)	Cerebral Array II Control (62)	Cytokine Array Controls and Calibrator Series (63-64)	Evidence Immunoassay Control (64)	Synthetic Steroids Control and Calibrator (65)	Metabolic Sydrome Controls and Calibrators (65-66)	Thyroid Calibrators (66)	Therapeutic Drug Control and Calibrator (69)	Ethanol Calibrator/Control Set (72)	Drugs of Abuse Array I Plus Controls and Calibrators (72)	Drugs of Abuse Array II Controls and Calibrators (72)	Drugs of Abuse Array III Controls and Calibrators (73)	Drugs of Abuse Array IV Controls and Calibrators (73)	Drugs of Abuse Array V Controls and Calibrators (74)	Cannabinoid Control and Calibrator (74)	Ecstasy Control and Calibrator (74)	EDDP Control and Calibrator (75)	Multidrug Control (75)	Benzodiazepines Control and Calibrator (75)	Assayed Urine Control (78)	Liquid Urine Control (78)	Urinalysis Control (79)	Low Level hCG Control (79)	Microalbumin Control and Calibrator (79)	
Folate																																																F
Fructosamine																																																
FSC-X																																																
FSH																											x																					
G-6-PDH																																																G
γ-Globulin (Electrophoresis)	x	x																																														
γGT																																																
Gastrin																																																
Gentamicin																															x																	
Gestagens (Generic)																												x																				
GLDH																																																
Glucose	x	x																																									x	x	x			
Glutamate																																																
Glutamine																																																
Glutathione Peroxidase (Ransel)																																																
Glutathione Reductase																																																
Glycerol																																																
GM-CSF																										x																						
Growth Hormone (GH)																																																
H-FABP																																																H
Haematocrit (HCT)																																																
Haemoglobin (HGB)																																																
Haemoglobin A2 (HbA2)																																																
Haemoglobin F (HbF)																																																
Haemoglobin S (HbS)																																																
Haemoglobin (Total)																																																
Haemopioetic Progenitor Cell (HPC)																																																
Haloperidol																																				x												
Haptoglobin																																																
HAV IgM														x																																		
HbA1c																																																
HBc IgM														x																																		
HbeAg														x																																		
HBsAg														x																																		
hCG																																												x	x	x		
Free β-hCG																																																
Total β-hCG																																																
HDL-3																					x																											
Helicobacter pylori IgG																																																
Herpes Simplex Virus 1 (HSV-1) IgG												x																																				
Herpes Simplex Virus 1 (HSV-1) IgM												x																																				
Herpes Simplex Virus 2 (HSV-2) IgG												x																																				
Herpes Simplex Virus 2 (HSV-2) IgM												x																																				
HIV P24Ag														x																																		
Homocysteine																																																
Ibuprofen																																				x												I
IMIDC																																																
IMIRF																																																
Immature Granulocytes (IG)																																																

ANALYTE INDEX

- Antioxidant Controls
- Blood Gas Controls
- Cardiac Controls
- Clinical Chemistry Controls
- Coagulation & Haematology Controls
- Diabetes & Whole Blood Controls
- Immunoassay Controls
- Immunology/Protein Controls

		Page	08	08	08	08	11	14	14	15	15	15	16	16	19	20	21	22	23	24	24	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	42	45	45	46	46
			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	SPLA$_2$-IIA Control and Calibrator	Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Specialty I Control	Immunoassay Specialty II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator
I	% Immature Granulocytes (% IG)																											×																		
	Immature Myeloid Information (IMI)																											×																		
	Immature Platelet Fraction (IPF)																											×																		
	Immunoglobulin A (IgA)														×	×	×	×																										×	×	×		
	High Sensitivity Immunoglobulin A (hsIgA)																																														
	Immunoglobulin E (IgE)														×	×		×																	×		×	×						×			
	Immunoglobulin G (IgG)														×	×	×	×																										×	×	×		
	High Sensitivity Immunoglobulin G (hsIgG)																																														
	Immunoglobulin M (IgM)														×	×	×	×																										×	×	×		
	High Sensitivity Immunoglobulin M (hsIgM)																																														
	Inhibin A																																														×				
	Insulin																																		×		×	×	×									
	Insulin Like Growth Factor-1 (IGF-I)																																						×									
	Intercellular Adhesion Molecule-1 (ICAM-1)																																														
	Interferon-γ (IFN-γ)																																														
	Interleukin-1α (IL-1α)																																														
	Interleukin-1β (IL-1β)																																														
	Interleukin-2 (IL-2)																																														
	Interleukin-4 (IL-4)																																														
	Interleukin-5 (IL-5)																																														
	Interleukin-6 (IL-6)																																														
	Interleukin-8 (IL-8)																																														
	Interleukin-10 (IL-10)																																														
	Interleukin-15 (IL-15)																																														
	Iron														×	×	×	×	×	×																												
	Iron (TIBC)														×	×	×	×	×	×																												
	Iron (UIBC)														×	×																																
K	Kappa Light Chain																																													×				
	Ketamine Metabolite																																																	
	Ketones																																																	
L	L-Selectin (L-SEL)																																																
	Lactate						×								×	×	×	×	×	×					×																						
	Lactate Dehydrogenase (LDH)														×	×	×	×	×	×																												
	Lambda Light Chain																																													×				
	Lambda Light Chain (Free)																																												×				
	LAP														×	×	×	×		×																												
	Leptin																																																	
	Leukocytes																																																
	Lipase														×	×	×	×	×	×																												
	Lipoprotein (a)															×		×																														
	Lithium														×	×	×	×	×	×																												
	Luteinising Hormone (LH)															×		×																	×		×	×									
	Lymphocytes (LYMPH)																											×																				
	% Lymphocytes (% LYMPH)																											×																				
	Lysergic Acid Diethylamide (LSD)																																																
M	Magnesium														×	×	×	×	×	×																												
	Matrix Metalloproteinase-9 (MMP-9)																																															
	Measles IgG																																																
	Mean Corpuscular Haemoglobin (MCH)																											×																				

ANALYTE INDEX



ANALYTE INDEX

- Antioxidant Controls
- Blood Gas Controls
- Cardiac Controls
- Clinical Chemistry Controls
- Coagulation & Haematology Controls
- Diabetes & Whole Blood Controls
- Immunoassay Controls
- Immunology/Protein Controls

		Page	08	08	08	08	11	14	14	15	15	15	15	16	16	19	20	21	22	23	24	24	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	42	45	45	46	46
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M	Mean Corpuscular Haemoglobin Concentration (MCHC)																												×																	
	Mean Corpuscular Volume (MCV)																												×																	
	Mean Platelet Volume (MPV)																												×																	
	Meprobamate																																														
	Meperidine																																														
	Mescaline																																														
	Metanephrine																																														
	Methadone																																														
	Methandriol																																														
	Methamphetamine																																														
	Methaqualone																																														
	Methotrexate																																														
	Methylphenidate																																														
	Methyltestosterone																																														
	MDMA																																														
	Microalbumin																																														
	Macrophage Inflammatory Protein-1α (MIP-1α)																																														
	Monocytes (MONO)																												×																		
	Monocytes % (% MONO)																												×																		
	Monocyte Chemoattractant Protein-1 (MCP-1)																																														
	Morphine (Opiates)																																														
	Mumps IgG																																														
	Myoglobin							×				×				×	×		×																												
	Nandrolone																																														
	NEFA															×		×		×																												
	Neuron-Specific Enolase (NSE)																																										×	×			
N	Neutrophils (NEUT)																												×																		
	Neutrophils % (% NEUT)																												×																		
	Neutrophil Gelatinase-associated Lipocalin (NGAL)																																														
	Nitrite																																														
	Norepinephrine																																														
	Normetanephrine																																														
	Nucleated Red Blood Cells (NRBC)																												×																		
	Nucleated Red Blood Cells % (% NRBC)																												×																		
	Nucleated Red Blood Cells X (NRBC-X)																												×																		
	Nucleated Red Blood Cells Y (NRBC-Y)																												×																		
O	Oestradiol																																			×			×	×								
	Opiates																																															
	Osmolality															×	×	×	×	×	×																											
	Osteocalcin																																															
	Oxalate																																															
	Oxazepam																																															
	Oxycodone (I+II)																																															
P	P-Selectin (P-SEL)																																														
	Paracetamol															×	×	×	×																		×		×	×								
	PAPP-A																																													×			
	pCO_2						×																																									
	pH						×																																										
	Phencyclidine																																															

ANALYTE INDEX

Analyte	CSF Control (47)	Liquid CSF Control (47)	ASO Standard (47)	β-2-Microglobulin Calibrator (48)	Cystatin C Control and Calibrator (48)	Immunoglobulin Liquid Protein Calibrator (48)	IgE Calibrator (49)	High Sensitivity IgG Control and Calibrator (49)	Rheumatoid Factor Calibrator Series (49)	sTfR Control and Calibrator Series (49)	Lyme Disease (*Borrelia burgdorferi*) Control (52)	ToRCH Controls (52)	Epstein Barr Virus (EBV) Control (53)	Serology Controls (53)	Lipid Control (56)	Liquid Lipid Control (56)	Direct LDL/HDL Cholesterol Calibrator (57)	Apolipoprotein Control and Calibrators (57)	Lipoprotein (a) Control and Calibrator (58)	sLDL Control and Calibrator (58)	HDL-3 Control and Calibrator (58)	Antimicrobial Controls (61)	Growth Promoter Control (61)	Adhesion Molecules Control and Calibrator (62)	Cerebral Array II Control (62)	Cytokine Array Controls and Calibrator Series (63-64)	Evidence Immunoassay Control (64)	Synthetic Steroids Control and Calibrator (65)	Metabolic Sydrome Controls and Calibrators (65-66)	Thyroid Calibrators (66)	Therapeutic Drug Control and Calibrator (69)	Ethanol Calibrator/Control Set (72)	Drugs of Abuse Array I Plus Controls and Calibrators (72)	Drugs of Abuse Array II Controls and Calibrators (72)	Drugs of Abuse Array III Controls and Calibrators (73)	Drugs of Abuse Array IV Controls and Calibrators (73)	Drugs of Abuse Array V Controls and Calibrators (74)	Cannabinoid Control and Calibrator (74)	Ecstasy Control and Calibrator (74)	EDDP Control and Calibrator (75)	Multidrug Control (75)	Benzodiazepines Control and Calibrator (75)	Assayed Urine Control (78)	Liquid Urine Control (78)	Urinalysis Control (79)	Low Level hCG Control (79)	Microalbumin Control and Calibrator (79)	
Mean Corpuscular Haemoglobin Concentration (MCHC)																																																M
Mean Corpuscular Volume (MCV)																																																
Mean Platelet Volume (MPV)																																																
Meprobamate																																			x													
Meperidine																																			x													
Mescaline																																					x											
Metanephrine																																											x					
Methadone																																	x								x							
Methandriol																												x																				
Methamphetamine																																	x								x							
Methaqualone																																		x														
Methotrexate																															x																	
Methylphenidate																																				x												
Methyltestosterone																												x																				
MDMA																																	x	x					x									
Microalbumin		x																																									x	x			x	
Macrophage Inflammatory Protein-1α (MIP-1α)																										x																						
Monocytes (MONO)																																																
Monocytes % (% MONO)																																																
Monocyte Chemoattractant Protein-1 (MCP-1)																										x																						
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Normetanephrine																																											x					
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Oestradiol																											x																					O
Opiates																																	x	x														
Osmolality																																											x	x				
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Oxazepam																																										x						
Oxycodone (I+II)																																		x														
P-Selectin (P-SEL)																								x																								P
Paracetamol																															x					x												
PAPP-A																																																
pCO_2																																																
pH																																												x	x			
Phencyclidine																																	x															

Page

Immunology/Protein Controls

Infectious Disease Controls (Serology)

Lipid Controls

Speciality & Research Controls

Therapeutic Drug Controls

Toxicology Controls

Urine Controls

ANALYTE INDEX

- Antioxidant Controls
- Blood Gas Controls
- Cardiac Controls
- Clinical Chemistry Controls
- Coagulation & Haematology Controls
- Diabetes & Whole Blood Controls
- Immunoassay Controls
- Immunology/Protein Controls

		Page	08	08	08	08	11	14	14	15	15	15	15	16	16	19	20	21	22	23	24	24	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	42	45	45	46	46
			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	$SPLA_2$-IIA Control and Calibrator		Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Specialty I Control	Immunoassay Specialty II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator
P	Phenobarbitone															×	×		×																	×		×	×							
	Phenylpiperazines																																														
	Phenytoin															×	×		×																	×		×	×							
	Phosphate (Inorganic)															×	×	×	×	×	×																									
	Plasminogen																											×																		
	Plasminogen Activator Inhibitor																																													
	Platelet Distribution Width (PDW)																												×																	
	Platelet Large Cell Ratio (P-LCR)																												×																	
	Plateletcrit (PCT)																												×																	
	Platelet (PLT)																												×																	
	Platelet Optical Count (PLT-O)																												×																	
	pO_2						×																																								
	Potassium						×									×	×	×	×	×	×																									
	Prealbumin															×	×		×																									×	×		
	Primidone																																			×		×	×								
	Procalcitonin																																						×	×							
	Progesterone																×		×																	×		×	×							
	Prolactin															×	×		×																	×		×	×							
	Propoxyphene																																														
	Protein C																											×																		
	Protein S																											×																		
	Protein (Total)															×	×	×	×	×	×																							×			
	Prothrombin Time (PT)																											×																		
	PSA (Total)															×		×	×	×																×		×	×			×	×			
	PSA (Free)																																			×		×	×			×	×			
	PTH (Intact)																																				×			×							
Q	Quinolones (Generic)																																														
R	Ractopamine																																														
	Red Blood Cell Y (RBC-Y)																												×																	
	Red Blood Cell Distribution Width CV (RDW-CV)																												×																	
	Red Blood Cell Distribution Width SD (RDW-SD)																												×																	
	Renin																																								×						
	Resistin																																														
	Retinol Binding Protein (RBP)																																												×		
	Rheumatoid Factor (RF)																																												×	×	
	Rubella IgG																																														
	Rubella IgM																																														
S	Salicylate															×	×	×	×																	×		×	×							
	Salicyluric Acid																																														
	Salvinorin																																														
	Secobarbital																																														
	Semicarbazine (SEM)																																														
	Sertraline																																														
	Sex Hormone Binding Globulin (SHBG)																																			×		×	×							
	sLDL																																														
	Sodium						×									×	×	×	×	×	×																									
	Soluble IL-2 Receptor α (sIL-2Rα)																																														
	Soluble IL-6 Receptor (sIL-6R)																																														
	Soluble Transferrin Receptor (sTfR)																																														

ANALYTE INDEX

- Immunology/Protein Controls
- Infectious Disease Controls (Serology)
- Lipid Controls
- Speciality & Research Controls
- Therapeutic Drug Controls
- Toxicology Controls
- Urine Controls

Analyte	CSF Control	Liquid CSF Control	ASO Standard	β-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	High Sensitivity IgG Control and Calibrator	Rheumatoid Factor Calibrator Series	sTfR Control and Calibrator Series	Lyme Disease (*Borrelia burgdorferi*) Control	ToRCH Controls	Epstein Barr Virus (EBV) Control	Serology Controls	Lipid Control	Liquid Lipid Control	Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	HDL-3 Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Array II Control	Cytokine Array Controls and Calibrator Series	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array I Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators	Cannabinoid Control and Calibrator	Ecstasy Control and Calibrator	EDDP Control and Calibrator	Multidrug Control	Benzodiazepines Control and Calibrator	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Low Level hCG Control	Microalbumin Control and Calibrator	
Page	47	47	47	48	48	48	49	49	49	49	52	52	53	53	56	56	57	57	58	58	58	61	61	62	62	63-64	64	65	65-66	66	69	72	72	72	73	73	74	74	74	75	75	75	78	78	79	79	79	
Phenobarbitone																															x																	P
Phenylpiperazines																																					x											
Phenytoin																															x																	
Phosphate (Inorganic)																																											x	x				
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Protein (Total)	x	x																																									x	x	x			
Prothrombin Time (PT)																																																
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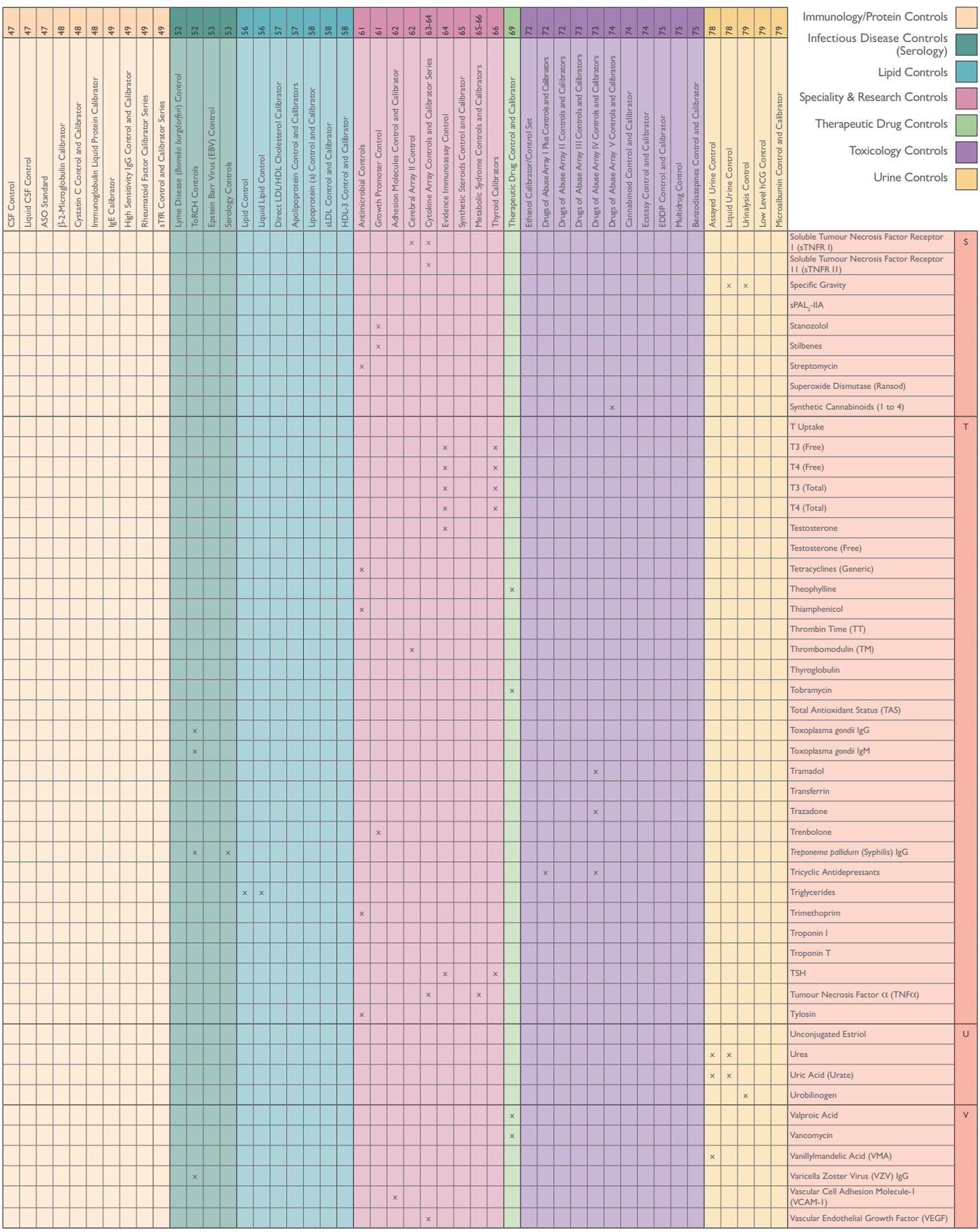
Retinol Binding Protein (RBP)																																																
Rheumatoid Factor (RF)									x																																							
Rubella IgG												x																																				
Rubella IgM												x																																				
Salicylate																															x					x												S
Salicyluric Acid																																				x												
Salvinorin																																					x											
Secobarbital																																									x							
Semicarbazine (SEM)																						x																										
Sertraline																																				x												
Sex Hormone Binding Globulin (SHBG)																																																
sLDL																				x																												
Sodium	x	x																																									x	x				
Soluble IL-2 Receptor α (sIL-2Rα)																										x																						
Soluble IL-6 Receptor (sIL-6R)																										x																						
Soluble Transferrin Receptor (sTfR)										x																																						

ANALYTE INDEX

- Antioxidant Controls
- Blood Gas Controls
- Cardiac Controls
- Clinical Chemistry Controls
- Coagulation & Haematology Controls
- Diabetes & Whole Blood Controls
- Immunoassay Controls
- Immunology/Protein Controls

		Page	08	08	08	08	11	14	14	15	15	15	15	16	16	19	20	21	22	23	24	24	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	42	45	45	46	46
			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	$SPLA_2$-IIA Control and Calibrator		Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Specialty I Control	Immunoassay Specialty II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator
S	Soluble Tumour Necrosis Factor Receptor I (sTNFR I)																																													
	Soluble Tumour Necrosis Factor Receptor II (sTNFR II)																																													
	Specific Gravity																																													
	$sPAL_2$-IIA														×																																
	Stanozolol																																														
	Stilbenes																																													
	Streptomycin																																													
	Superoxide Dismutase (Ransod)				×																																									
	Synthetic Cannabinoids (1 to 4)																																													
T	T Uptake																×		×																		×		×	×							
	T3 (Free)															×	×		×																		×		×	×							
	T4 (Free)															×	×	×	×	×																	×		×	×							
	T3 (Total)															×	×	×	×	×																	×		×	×							
	T4 (Total)															×	×	×	×	×																	×		×	×							
	Testosterone																×		×																		×		×	×							
	Testosterone (Free)																																						×		×							
	Tetracyclines (Generic)																																														
	Theophylline															×	×	×	×																		×		×	×							
	Thiamphenicol																																														
	Thrombin Time (TT)																											×																			
	Thrombomodulin (TM)																																														
	Thyroglobulin																																						×		×							
	Tobramycin															×		×																		×		×	×							
	Total Antioxidant Status (TAS)					×																																									
	Toxoplasma *gondii* IgG																																														
	Toxoplasma *gondii* IgM																																														
	Tramadol																																														
	Transferrin															×	×	×	×																											×	×		
	Trazadone																																														
	Trenbolone																																														
	Treponema pallidum (Syphilis) IgG																																														
	Tricyclic Antidepressants																																														
	Triglycerides															×	×	×	×	×	×																											
	Trimethoprim																																														
	Troponin I							×								×																															
	Troponin T							×		×							×		×																													
	TSH															×	×		×																		×		×	×							
	Tumour Necrosis Factor α (TNFα)																																														
	Tylosin																																														
U	Unconjugated Estriol																																											×				
	Urea															×	×	×	×	×	×																											
	Uric Acid (Urate)															×	×	×	×	×	×																											
	Urobilinogen																																														
V	Valproic Acid															×	×		×																		×		×	×							
	Vancomycin															×	×		×																		×		×	×							
	Vanillylmandelic Acid (VMA)																																														
	Varicella Zoster Virus (VZV) IgG																																														
	Vascular Cell Adhesion Molecule-1 (VCAM-1)																																														
	Vascular Endothelial Growth Factor (VEGF)																																														

ANALYTE INDEX



ANALYTE INDEX

Antioxidant Controls
Blood Gas Controls
Cardiac Controls
Clinical Chemistry Controls
Coagulation & Haematology Controls
Diabetes & Whole Blood Controls
Immunoassay Controls
Immunology/Protein Controls

		Page	Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	$SPLA_2$-IIA Control and Calibrator	Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Specialty I Control	Immunoassay Specialty II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator
			08	08	08	08	11	14	14	15	15	15	16	16	19	20	21	22	23	24	24	25	25	25	26	26	26	29	30	33	33	33	34	34	34	37	37	38	39	40	40	41	41	41	42	45	45	46	46
V	Vitamin B_{12}														×	×	×	×	×	×															×		×	×									
W	White Blood Cells (WBC)																												×																		
	White Blood Cells Differential (WBC-D)																												×																		
Z	Zaleplon																																														
	Zeronal																																														
	Zinc														×	×	×	×	×	×																											
	Zolpidem																																														
	Zopiclone																																														

	CSF Control	Liquid CSF Control	ASO Standard	β-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	High Sensitivity IgG Control and Calibrator	Rheumatoid Factor Calibrator Series	sTfR Control and Calibrator Series	Lyme Disease (*Borrelia burgdorferi*) Control	ToRCH Controls	Epstein Barr Virus (EBV) Control	Serology Controls	Lipid Control	Liquid Lipid Control	Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	HDL-3 Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Array II Control	Cytokine Array Controls and Calibrator Series	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array I Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators	Cannabinoid Control and Calibrator	Ecstasy Control and Calibrator	EDDP Control and Calibrator	Multidrug Control	Benzodiazepines Control and Calibrator	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Low Level hCG Control	Microalbumin Control and Calibrator	
Page	47	47	47	48	48	48	49	49	49	49	52	52	53	53	56	56	57	57	58	58	58	61	61	62	62	63-64	64	65	65-66	66	69	72	72	72	73	73	74	74	74	75	75	75	78	78	79	79	79	
Vitamin B_{12}																																																V
White Blood Cells (WBC)																																																W
White Blood Cells Differential (WBC-D)																																																
Zaleplon																																			×													Z
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Immunology/Protein Controls
Infectious Disease Controls (Serology)
Lipid Controls
Speciality & Research Controls
Therapeutic Drug Controls
Toxicology Controls
Urine Controls

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 healthcare worldwide.

RX SERIES

Renowned for quality and reliability, the RX series combines robust hardware and intuitive software with the world leading RX series test menu comprising an extensive range of high quality reagents including routine chemistries, specific proteins, lipids, therapeutic drugs, drugs of abuse, antioxidants and diabetes testing. The RX series offers excellence in patient care delivering unrivalled precision and accuracy for results you can trust, guaranteeing real cost savings through consolidation of routine and specialised tests onto one single platform.

REAGENTS

Randox offers an extensive range of third-party diagnostic reagents which are internationally recognised as being of the highest quality; producing accurate and precise results. At Randox, we re-invest significantly in R&D to ensure we meet the ever-changing needs of the laboratory. Consequently, Randox offer a range of novel and superior performance assays, including: sdLDL-C, Lipoprotein (a), H-FABP, Adiponectin, Copper and Zinc. Applications are available detailing instrument-specific settings for the convenient use of Randox Reagents on numerous clinical chemistry analysers.

EVIDENCE SERIES

In 2002, Randox invented the world's first, Biochip Array Technology, offering highly specific tests, coupled to the highly sensitive chemiluminescent detection, providing quantitative results instantly changing the landscape of diagnostic testing forever. The Randox Evidence Series of multi-analyte immunoanalysers provide an unrivalled increase in patient information per sample offering diagnostic, prognostic and predictive solutions across a variety of disease areas with a highly advanced clinical and toxicology immunoassay test menu including cardiac, diabetes, drugs of abuse, metabolic and renal markers.

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