

RANDOX

THIRD PARTY CONTROLS



ACUSERA



ACUSERA

TRUE THIRD PARTY CONTROLS
OFFERING COMPLETE TEST MENU CONSOLIDATION



Whilst every attempt is made to ensure that information is accurate and up-to-date, some information is subject to change. Please contact marketing@randox.com for current details.

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BENEFITS

For over 40 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.

Consolidation



Specialising in consolidation, the Acusera range has been **saving laboratories** around the world **significant time and money** by reducing the number of controls required to cover their test menu. Preparation time, dead volume waste and storage space are also reduced.

Reduced Waste



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

Commutability



All Acusera controls are designed to react to the test system in the same manner as the patient sample, helping to meet ISO 15189:2022 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. 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.

True Third Party Controls



Manufactured independently, the Acusera range delivers unbiased performance assessment with any instrument or method, helping to meet ISO 15189:2022 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.



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.



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.



Rapid Data Review

Designed for use with the Acusera range of third party controls, the Acusera 24•7 software has been designed to speed up data review and troubleshooting procedures for smarter QC data management. With access to an impressive range of features, including; Automatic Uncertainty of Measurement calculation, Interactive Levey-Jennings Charts and Daily Data Review Reports, Acusera 24•7 has been **saving laboratories up to 938 hours** of valuable staff time annually.

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

ISO REQUIREMENTS

Acusera; helping you to meet ISO 15189:2022 requirements.

Third Party Controls

"The use of third-party IQC material should be considered, either as an alternative to, or in addition to, control material 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

"When selecting IQC material, factors to be considered include: the IQC material reacts to the examination method in a manner as close as possible to patient samples."

Many Acusera controls are manufactured using 100% human materials, ensuring they behave in the same manner as a patient sample thus providing an accurate reflection of test system performance.

Clinically Relevant Levels

"The IQC material provides a clinically relevant challenge to the examination method, has concentration levels at or near clinical decision limits and when possible, covers the measurement range of the examination method."

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 prevent the release of patient results in the event that IQC fails the defined acceptability criteria. The laboratory shall have a procedure for monitoring the validity of results. ...The resulting data shall be recorded in such a way that trends and shifts are detectable and, where practicable, statistical techniques shall be applied to review the results."

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.

EQAs

"The laboratory shall monitor its performance of examination methods, by comparison with results of other laboratories. This includes participation in EQA programmes appropriate to the examinations and interpretation of examination results, including POCT examination methods."

The Randox International Quality Assessment Scheme (RIQAS), is used by more than 76,000 laboratory participants in 140 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 38 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. Our unique combination of analytes has facilitated laboratories significantly reducing the number of controls required to cover their test menu and **saving up to £25,000 per annum** when compared to competing products. In addition, the presence of analytes at clinically relevant decision levels has eliminated 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.

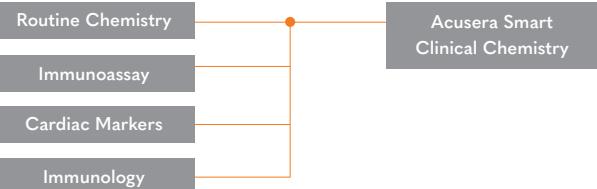
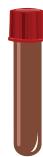
Acusera Smart – Clinical Chemistry Control

Uniquely combining up to 93 analytes including routine chemistry, immunoassays, immunology and cardiac markers in a single vial, you can experience effective consolidation and significant cost savings. The unrivalled stability of key routine analytes in the Acusera Smart Clinical Chemistry control will also contribute to reducing waste, stock management and improve overall cost effectiveness when compared to other Load & Go providers. - turn to page 08 for more information

Competitor Controls



Randox Control



Competitor Controls



Randox Control



Immunoassay

Tumour Markers

Homocysteine

Immunology

Acusera Smart – Immunoassay Control

Impressively covering 54 analytes including routine tumour markers, therapeutic drugs and routine immunoassay tests, the Acusera Smart Immunoassay Control has been uniquely designed to eliminate the need for four or more controls, dramatically reducing costs and QC handling time. The added advantage of ultra-low levels of Ferritin, Vitamin B12 and TSH will help to ensure accurate performance at key decision levels and further reduce the number of controls required. - turn to page 09 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.

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.



The UKCA marking (an abbreviation of UK Conformity Assessed) is a conformity mark that indicates conformity with the applicable requirements for products sold within Great Britain. The government intended that it should replace the CE marking for products sold in Great Britain. Both markings continue to be accepted in the UK market.



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 In Vitro Diagnostic (IVD) Medical Devices Directive 98/79/EC with products now transitioning to the (IVDR) Medical Device Regulation (EU) 2017/746. 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.

STREAMLINE YOUR QC, THE SMART WAY

Comprising of both SmartScan and SmartLoad options, the New Acusera Smart controls range is designed to fit directly onto a wide range of test systems without the need to aliquot material, streamlining the QC process by minimising human error and optimising workflow.

BENEFITS

ACUSERA SMART



Reduce Handling Time

By removing the need to locate product inserts, manually enter QC ranges and pipette/aliquot material, the Acusera smart range can **save up to 60 minutes** of valuable laboratory time per control.



Streamline Workflow

Through consolidation of multiple controls into one, Acusera Smart offers real benefits to the laboratory. Minimising stock management, reducing inventory requirements and leading to significant reduction in overall costs to cover the test menu.



Minimise Waste

The unrivalled working stability of the Acusera Smart control range improves laboratory efficiency by reducing dead volume wastage, which in turn reduces the overall volume of QC required.



Reduce Errors

With the removal of transcription errors through Acusera Smart XML and eliminating manual data input with secure transfer, Acusera Smart can significantly reduce transcription errors by laboratory staff.



Ensure Reliability

Acusera Smart human-based serum controls are designed to react to the test system in the same manner as the patient sample. Helping laboratories to meet regulatory requirements and reduce costly shifts in QC results when reagent batch is changed.



Accelerate Data Review

Designed for use with the Acusera range of controls, the Acusera 24•7 software has been designed to speed up data review and troubleshooting procedures for smarter QC data management. With access to an impressive range of features, including Automatic Uncertainty of Measurement Calculation, Interactive Levey-Jennings Charts and Daily Data Review Reports, Acusera 24•7 has been **saving laboratories up to 938 hours** of valuable staff time annually.

ACUSERA SMARTLOAD

1. The Smartload QC is directly loaded onto the analyser.
2. Operator follows relevant instructions to upload values.

ACUSERA SMARTSCAN

1. The Smartscan QC is directly loaded onto the analyser.
2. The analyser scans the barcode.
3. The operator can log on to access the relevant target value file and upload as instructed.

NEW ACUSERA SMART CONTROLS



Clinical Chemistry Control

The Acusera Smart Liquid Chemistry Control is intended for *in vitro* diagnostic use, in the quality control of diagnostic assays. Three clinically significant levels are available. Covering 93 analytes, the control enables effective consolidation and cost saving.

Analytics

Cardiac

CK (Total)
Myoglobin
Troponin T

Drugs

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

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 B12

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
a-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
 γ GT
GLDH
Glucose
Iron
Iron (TIBC)
Lactate
Lactate Dehydrogenase (LDH)
Lipase
Magnesium
Osmolality
Phosphate (Inorganic)
Potassium
Sodium
Urea
Uric Acid (Urate)

Trace Metals
Copper
Zinc

ACUSERA SMARTLOAD

Description	Size	Cat. No.
Smartload Liquid Chemistry Controls Level 1	12 x 4 ml	LAL10625
Smartload Liquid Chemistry Controls Level 2	12 x 4 ml	LAN10626
Smartload Liquid Chemistry Controls Level 3	12 x 4 ml	LAE10627

ACUSERA SMARTSCAN

Description	Size	Cat. No.
Smartscan Liquid Chemistry Controls - Level 1 (Siemens Atellica)	12 x 4 ml	LAL10565
Smartscan Liquid Chemistry Controls - Level 2 (Siemens Atellica)	12 x 4 ml	LAN10566
Smartscan Liquid Chemistry Controls - Level 3 (Siemens Atellica)	12 x 4 ml	LAE10567

Benefits

- Liquid frozen for ease of use
- Human based serum
- Open vial stability of 7 days at 2°C to 8°C for most analytes
- Consolidates 93 analytes
- High levels of CRP and other proteins eliminate the need for multiple controls

NEW ACUSERA SMART CONTROLS



Immunoassay Control

The Acusera Smart Liquid Immunoassay Control is intended for *in vitro* diagnostic use to cover immunoassay testing in a single tube. The three clinically significant levels provided will not only help to accurate performance at key decision levels, but will also eliminate the need for additional controls, enabling greater consolidation and cost savings.

Analytes

17-OH-Progesterone	Digoxin	Phenobarbital	Thyroglobulin
25-OH-Vitamin D	Ferritin	Phenytoin	Tobramycin
α -Fetoprotein (AFP)	Folate	Progesterone	Troponin I
ACTH*	FSH	Prolactin	Troponin T
Aldosterone	Gentamicin	PSA (Free)	TSH
Androstenedione	Growth Hormone (GH)	PSA (Total)	Valproic Acid
Anti-Thyroperoxidase (Anti-TPO)	hCG	PTH (Parathyroid Hormone)*	Vancomycin
β -2-Microglobulin	Homocysteine	Sex Hormone Binding Globulin (SHBG)	Vitamin B12
C-Peptide*	Immunoglobulin E (IgE)	T Uptake	
CA125	Insulin	T3 (Free)	
CA15-3	Insulin Like Growth Factor 1 (IGF 1)	T3 (Total)	
CA19-9	Luteinising Hormone (LH)	T4 (Free)	
Carbamazepine	NT-proBNP	T4 (Total)	
CEA	Oestradiol	Testosterone	
Cortisol	Paracetamol	Theophylline	



Description	Size	Cat. No.
Smartload Immunoassay Level 1	12 x 4 ml	LIA5142
Smartload Immunoassay Level 2	12 x 4 ml	LIA5143
Smartload Immunoassay Level 3	12 x 4 ml	LIA5144



Description	Size	Cat. No.
Smartscan Immunoassay Level 1 (Siemens Atellica)	12 x 4 ml	LIA10568
Smartscan Immunoassay Level 2 (Siemens Atellica)	12 x 4 ml	LIA10569
Smartscan Immunoassay Level 3 (Siemens Atellica)	12 x 4 ml	LIA10570

Benefits

- Liquid frozen for ease of use
- 100% human serum
- Stable for 7 days at 2°C to 8°C for most analytes
- Consolidates routinely run tumour markers, cardiac markers, therapeutic drugs and hormones

*No claims are made regarding values or stability

NEW ACUSERA SMART CONTROLS



Liquid Cardiac Control

The Acusera Smart Liquid Cardiac Control is designed to cover a range of cardiac markers at clinical decision levels, eliminating the need for additional low-level controls at extra expenses. It is intended for use with *in vitro* diagnostic assays for the quantitative determination of 7 cardiac markers. This control also has an impressive 14 day open vial stability for Troponin I, and 30 days for other analytes. It is designed for use in the routine monitoring of both accuracy and precision.

Analytics

CK-MB | Digoxin | Homocysteine | hsCRP | Myoglobin | NT-proBNP | Troponin I



Description	Size	Cat. No.
Smartload Liquid Cardiac Controls Level 1	5 x 3 ml	CQ10534
Smartload Liquid Cardiac Controls Level 2	5 x 3 ml	CQ10535
Smartload Liquid Cardiac Controls Level 3	5 x 3 ml	CQ10536



Description	Size	Cat. No.
Smartscan Liquid Cardiac Controls Level 1 (Siemens Atellica)	5 x 3 ml	CQ10616
Smartscan Liquid Cardiac Controls Level 2 (Siemens Atellica)	5 x 3 ml	CQ10617
Smartscan Liquid Cardiac Controls Level 3 (Siemens Atellica)	5 x 3 ml	CQ10618

Benefits

- Liquid frozen for ease of use
- Human based serum
- Open vial stability of 30 days at 2°C to 8°C for most analytes (excluding Troponin I)
- Consolidates 7 key cardiac markers
- Cut off levels for Troponin I in line with internationally recommended levels



PTH Control

The Acusera Smart PTH Control is intended for use with *in vitro* diagnostic assays for the quantitative determination of Parathyroid Hormone in human serum and plasma. This notoriously unstable marker is available with an impressive 30 day open vial stability, reducing waste while remaining easy-to-use.

Analytics

PTH (Parathyroid Hormone)



Description	Size	Cat. No.
Smartload PTH Control Level 1	3 x 3 ml	PTH10608
Smartload PTH Control Level 2	3 x 3 ml	PTH10609
Smartload PTH Control Level 3	3 x 3 ml	PTH10610

Benefits

- Liquid frozen for ease of use
- Human based serum
- Stable to expiry date at -20°C to -80°C
- Open vial stability of 30 days at 2°C to 8°C

NEW ACUSERA SMART CONTROLS - COMING SOON



COMING SOON

Specific Protein Control

Our Specific Protein Control covers a unique combination of analytes to reduce the number of individual controls required.



COMING SOON

Urine Chemistry Control

Our Urine Chemistry Control has been designed to consolidate commonly used urine chemistry analytes in a single vial, reducing the number of controls required to cover your complete test menu.

Acusera Smart Product Range			
Product Description	Size	Cat No	Page No
Smartload Liquid Chemistry Controls Level 1	12 x 4 ml	LAL10625	08
Smartload Liquid Chemistry Controls Level 2	12 x 4 ml	LAN10626	08
Smartload Liquid Chemistry Controls Level 3	12 x 4 ml	LAE10627	08
Smartscan Liquid Chemistry Controls - Level 1 (Siemens Atellica)	12 x 4 ml	LAL10565	08
Smartscan Liquid Chemistry Controls - Level 2 (Siemens Atellica)	12 x 4 ml	LAN10566	08
Smartscan Liquid Chemistry Controls - Level 3 (Siemens Atellica)	12 x 4 ml	LAE10567	08
Smartload Immunoassay Level 1	12 x 4 ml	LIA5142	09
Smartload Immunoassay Level 2	12 x 4 ml	LIA5143	09
Smartload Immunoassay Level 3	12 x 4 ml	LIA5144	09
Smartscan Immunoassay Level 1 (Siemens Atellica)	12 x 4 ml	LIA10568	09
Smartscan Immunoassay Level 2 (Siemens Atellica)	12 x 4 ml	LIA10569	09
Smartscan Immunoassay Level 3 (Siemens Atellica)	12 x 4 ml	LIA10570	09
Smartload Liquid Cardiac Controls Level 1	5 x 3 ml	CQ10534	10
Smartload Liquid Cardiac Controls Level 2	5 x 3 ml	CQ10535	10
Smartload Liquid Cardiac Controls Level 3	5 x 3 ml	CQ10536	10
Smartscan Liquid Cardiac Controls - Level 1 (Siemens Atellica)	5 x 3 ml	CQ10616	10
Smartscan Liquid Cardiac Controls - Level 2 (Siemens Atellica)	5 x 3 ml	CQ10617	10
Smartscan Liquid Cardiac Controls - Level 3 (Siemens Atellica)	5 x 3 ml	CQ10618	10
Smartload PTH Control Level 1	3 x 3 ml	PTH10608	10
Smartload PTH Control Level 2	3 x 3 ml	PTH10609	10
Smartload PTH Control Level 3	3 x 3 ml	PTH10610	10

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 Peroxidase (Ransel) Control	10 x 1 ml	SC692	14
Glutathione Peroxidase (Ransel) Calibrator	10 x 1 ml	SC10154	14
Total Antioxidant Status (TAS) Control	10 x 5 ml	NX2331	14



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

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
- Single point calibrator

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

Total Antioxidant Status (TAS) Control

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

Description	Size	Cat No
Total Antioxidant Status Control	10 x 5 ml	NX2331

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	17
Blood Gas Control Level 2	30 x 1.8 ml	BG5002	17
Blood Gas Control Level 3	30 x 1.8 ml	BG5003	17



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

BLOOD GAS

Blood Gas Control

Analytes			
Bicarbonate Calcium Chloride	Glucose Lactate pCO_2	pH pO_2 Potassium	Sodium

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 within 1 minute 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
BNP Controls (Beckman)	3 x 1 x 1 ml	CQ10520	20
BNP Controls (Abbott)	3 x 1 x 1 ml	CQ10521	20
BNP Controls (Siemens)	3 x 1 x 1 ml	CQ10522	20
Cardiac Control Ultra Low (Abbott & Roche)	3 x 3 ml	CQ10453	20
Cardiac Control Ultra Low (Siemens)	6 x 1 ml	CQ10428	20
Cardiac Control Level 1 (Siemens)	6 x 1 ml	CQ10429	20
Cardiac Control Level 2 (Siemens)	6 x 1 ml	CQ10430	20
Cardiac Control Level 3 (Siemens)	6 x 1 ml	CQ10431	20
CK-MB Control	10 x 2 ml	CK1212	21
CK-MB Calibrator	10 x 1 ml	CK2393	21
Tri-Level Cardiac Control	3 x 1 ml	CQ3100	21
Tri-Level Cardiac Control	3 x 2 ml	CQ3259	21
Troponin T Control	6 x 3 ml	CQ10450	21



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

BNP Control

Designed for use with in vitro diagnostics assays for the quantitative determination of BNP in human serum and plasma. The Acusera BNP control delivers an unbiased, independent assessment of analytical performance, helping to ensure accurate and reliable patient testing for BNP. Optimised for use on Beckman, Abbott and Siemens systems, these controls are also suitable for other platforms.

- Liquid ready-to-use
- Human based serum
- 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
BNP Controls (Beckman)	3 x 1 x 1 ml	CQ10520
BNP Controls (Abbott)	3 x 1 x 1 ml	CQ10521
BNP Controls (Siemens)	3 x 1 x 1 ml	CQ10522

Cardiac Control

Analytes			
Cardiac Ultra Low	Cardiac Level 1	Cardiac Level 2	Cardiac Level 3
Troponin I	NT-proBNP Troponin I	NT-proBNP Troponin I	NT-proBNP Troponin I

Delivering an unassayed solution for Troponin I and NT-proBNP testing, the Acusera Cardiac Control is designed for use with Abbott, Roche and Siemens systems. This control provides a full range of clinically relevant testing levels, including High Sensitivity Troponin I.

Information in relation to Abbott & Roche Control

- Liquid frozen
- Stable to expiry date at -20°C to -80°C
- Open vial stability of up to 7 days at 2°C to 8°C

Information in relation to Siemens Controls

- Liquid frozen
- 4 Clinically relevant levels (including Ultra-Low)
- Stable to expiry date at -20°C to -80°C
- Open vial stability of up to 5 days (Troponin I) and 7 days (NT-proBNP) at 2°C to 8°C

Description	Size	Cat No
Cardiac Control Ultra Low (Abbott & Roche)	3 x 3 ml	CQ10453
Cardiac Control Ultra Low (Siemens)	6 x 1 ml	CQ10428
Cardiac Control Level 1 (Siemens)	6 x 1 ml	CQ10429
Cardiac Control Level 2 (Siemens)	6 x 1 ml	CQ10430
Cardiac Control Level 3 (Siemens)	6 x 1 ml	CQ10431

For Acusera Smart Liquid Cardiac Control see page 10

CARDIAC

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
- Single point calibrator

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

Tri-Level 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
- Human based 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

Troponin T Control

True third party control designed for use in the routine monitoring of accuracy and precision of TnT assays.

- Liquid frozen
- Ultra low levels of Troponin T
- Stable to expiry date at -18°C to -24°C
- Open vial stability of up to 7 days at 2°C to 8°C

Description	Size	Cat No
Troponin T Control	6 x 3 ml	CQ10450

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

Clinical Chemistry Product Range			
Product Description	Size	Cat No	Page No
Aldolase Calibrator	3 x 1 ml	AD5000	24
Aldolase Control Level 2	3 x 1 ml	AD5001	24
Aldolase Control Level 3	3 x 1 ml	AD5002	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
Assayed Chemistry Premium Plus Level 2	20 x 5 ml	HN1530	25
Assayed Chemistry Premium Plus Level 3	20 x 5 ml	HE1532	25
Assayed Chemistry Premium Plus Level 2 & 3	2 x 5 x 5 ml	HS2611	25
Clinical Chemistry Calibration Serum Level 2	20 x 5 ml	CAL2350	26
Clinical Chemistry Calibration Serum Level 3	20 x 5 ml	CAL2351	26
Ethanol Calibrator/Control Set	4 x 10 ml	DA2703	26
Liquid Assayed Chemistry Premium Plus Level 1	12 x 5 ml	LAL4213	27
Liquid Assayed Chemistry Premium Plus Level 2	12 x 5 ml	LAN4214	27
Liquid Assayed Chemistry Premium Plus Level 3	12 x 5 ml	LAE4215	27
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069	28
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070	28
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071	28
Precision Chemistry Premium Plus Level 2	20 x 5 ml	UN1557	29
Precision Chemistry Premium Plus Level 3	20 x 5 ml	UE1558	29
Serum Indices Control	4 x 5 ml	SI10448	29



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

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**
- **Single point calibrator**

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

Ammonia Ethanol Control

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

Assayed Chemistry Premium Plus Control

Analytes			
Cardiac CK (Total)	Immunoassay Cortisol Folate PSA (Total) T3 (Total) T4 (Free) T4 (Total) TSH Vitamin B ₁₂	Immunoglobulin M (IgM) Protein (Total) Transferrin	D-3-Hydroxybutyrate γGT GLDH Glucose Iron Iron (TIBC) Iron (UIBC) Lactate Lactate Dehydrogenase (LDH) Lipase Magnesium Osmolality Phosphate (Inorganic) Potassium Sodium Urea Uric Acid (Urate)
Drugs Digoxin Gentamicin Lithium Paracetamol Salicylate Theophylline Tobramycin	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		
Electrophoresis α-1-Globulin α-2-Globulin Albumin β-Globulin γ-Globulin	Lipids Apolipoprotein A-1 Apolipoprotein B Cholesterol (HDL) Cholesterol (Total) NEFA Triglycerides		Trace Metals Copper Zinc
	Proteins Immunoglobulin A (IgA) Immunoglobulin G (IgG)		

One of our most popular controls, the Acusera Assayed Chemistry Premium Plus Control, combines a comprehensive 67 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

For Acusera Smart Clinical Chemistry Control see page 08

Clinical Chemistry Calibration Serum

Analytes			
Cardiac CK (Total)	Routine Chemistry α-HBDH Acid Phosphatase (Total) Albumin Alkaline Phosphatase (ALP) ALT (GPT) Amylase (Pancreatic) Amylase (Total) 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) Lipase	Magnesium Osmolality Phosphate (Inorganic) Potassium Sodium Urea Uric Acid (Urate)
Drugs Lithium			
Lipids Cholesterol Triglycerides			
Proteins Protein (Total)			Trace Metals Copper Zinc

Comprising 39 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
- Multi-point calibration serum

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

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

CLINICAL CHEMISTRY

Liquid Assayed Chemistry Premium Plus Control



Analytes			
Cardiac	Immunoassay	Proteins	Bile Acids
CK (Total)	α -Fetoprotein (AFP)	α -1-Acid Glycoprotein	Bilirubin (Direct)
Myoglobin	CEA	α -2-Antitrypsin	Bilirubin (Total)
Troponin T	Cortisol	β -2-Microglobulin	Calcium
	DHEA Sulphate	Ceruloplasmin	Chloride
Drugs	Folate	Complement C3	Cholinesterase
Amikacin	FSH	Complement C4	Creatinine
Caffeine	hCG	CRP	D-3-Hydroxybutyrate
Carbamazepine	Luteinising Hormone (LH)	Ferritin	γ GT
Digoxin	Progesterone	Haptoglobin	GLDH
Ethanol	Prolactin	Immunoglobulin A (IgA)	Glucose
Gentamicin	PSA (Total)	Immunoglobulin E (IgE)	Iron
Lithium	T Uptake	Immunoglobulin G (IgG)	Iron (TIBC)
Paracetamol	T3 (Free)	Immunoglobulin M (IgM)	Lactate
Phenobarbitone	T3 (Total)	Prealbumin	Lactate Dehydrogenase (LDH)
Phenytoin	T4 (Free)	Protein (Total)	Lipase
Salicylate	T4 (Total)	Transferrin	Magnesium
Theophylline	Testosterone		Osmolality
Valproic Acid	TSH		Phosphate (Inorganic)
Vancomycin	Vitamin B ₁₂		Potassium
		Routine Chemistry	Sodium
Electrophoresis	Lipids	α -HBDH	Urea
α -1-Globulin	Apolipoprotein A-1	ACE (Angiotensin Converting Enzyme)*	Uric Acid (Urate)
α -2-Globulin	Apolipoprotein B	Acid Phosphatase (Total)	
Albumin	Cholesterol (HDL)	Albumin	
β -Globulin	Cholesterol (LDL)	Alkaline Phosphatase (ALP)	
γ -Globulin	Cholesterol (Total)	ALT (GPT)	
	Lipoprotein (a)	Amylase	
	Triglycerides	Amylase (Pancreatic)	
		AST (GOT)	
		Bicarbonate	
			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 -80°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	*No claims are made regarding values or stability

For Acusera Smart Clinical Chemistry Control see page 08

Liquid Chemistry Premium Plus Control

Analytes			
Cardiac CK (Total) Myoglobin Troponin T	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	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	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)
Drugs Amikacin Caffeine Carbamazepine Digoxin Ethanol Gentamicin Lithium Paracetamol Phenobarbitone Phenytoin Salicylate Theophylline Valproic Acid Vancomycin		Routine Chemistry α-HBDH ACE (Angiotensin Converting Enzyme)* Acid Phosphatase (Total) Albumin Alkaline Phosphatase (ALP) ALT (GPT) Amylase Amylase (Pancreatic) AST (GOT) Bicarbonate Bile Acids	
Electrophoresis α-1-Globulin α-2-Globulin Albumin β-Globulin γ-Globulin	Lipids Apolipoprotein A-1 Apolipoprotein B Cholesterol (HDL) Cholesterol (LDL) Cholesterol (Total) Lipoprotein (a) Triglycerides		
			Trace Metals Copper Zinc

Comprising 100 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 -80°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

*No claims are made regarding values or stability

CLINICAL CHEMISTRY

Precision Chemistry Premium Plus Control



Analytes

Cardiac	Prolactin	Ferritin	Cholinesterase
CK (Total)	PSA (Total)	Haptoglobin	Creatinine
Myoglobin	T3 (Free)	Immunoglobulin A (IgA)	D-3-Hydroxybutyrate
Troponin I	T3 (Total)	Immunoglobulin E (IgE)	γ GT
	T4 (Free)	Immunoglobulin G (IgG)	GLDH
	T4 (Total)	Immunoglobulin M (IgM)	Glucose
	TSH	Prealbumin	Iron
Drugs	Vitamin B ₁₂	Protein (Total)	Iron (TIBC)
Carbamazepine		Transferrin	Lactate
Digoxin			Lactate Dehydrogenase (LDH)
Gentamicin			LAP
Lithium			Lipase
Paracetamol			Magnesium
Phenobarbitone	Lipids		Osmolality
Phenytoin	Apolipoprotein A-I		Phosphate (Inorganic)
Salicylate	Apolipoprotein B		Potassium
Theophylline	Cholesterol (HDL)		Sodium
Tobramycin	Cholesterol (Total)		Urea
Valproic Acid	NEFA		Uric Acid (Urate)
Vancomycin	Triglycerides		
Immunoassay			
α -Fetoprotein (AFP)	Proteins		Trace Metals
CEA	α -1-Acid Glycoprotein		Copper
Cortisol	α -1-Antitrypsin		Zinc
Folate	Ceruloplasmin		
hCG	Complement C3		
	Complement C4		
	CRP		

Our Precision Chemistry Premium Plus control conveniently covers 84 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

Serum Indices Control



Analytes

Haemolysis (H)	Icterus (I)	Lipemia (L)
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Designed to be used to monitor an IVD instrument's response in the detection of haemolysed, icteric and lipemic (HIL) samples. This control can be utilised in laboratory interference testing to assist in improving error detection of pre-analytical errors affecting clinical chemistry testing.

- Lyophilised for enhanced stability
- Human based serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 14 days at 2°C to 8°C
- 4 separate levels available including a negative (-) and three positives (+, ++ & +++)

Description	Size	Cat No
Serum Indices Control	4 x 5 ml	SI10448

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 multianalyte 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	32
Coagulation Control Level 2	12 x 1 ml	CG5022	32
Coagulation Control Level 3	12 x 1 ml	CG5023	32
Haematology Control	3 x 2 x 4.5 ml	HM5162	32



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 and Mindray 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

Diabetes and Whole Blood Product Range			
Product Description	Size	Cat No	Page No
Fructosamine Control Level 1	3 x 1 ml	FR2994	35
Fructosamine Control Level 3	3 x 1 ml	FR2996	35
Fructosamine Calibrator	3 x 1 ml	FR2993	35
G-6PDH Control Deficient	6 x 0.5 ml	PD2617	35
G-6PDH Control Normal	6 x 0.5 ml	PD2618	35
HbA1c Control Set Level 1 and 2	2 x 2 x 0.5 ml	HA5072	35
HbA1c II Calibrator Series	5 x 0.5 ml	HA8124	35
Liquid HbA1c Control Level 1	6 x 1 ml	HA10224	36
Liquid HbA1c Control Level 2	6 x 1 ml	HA10225	36
Liquid HbA1c Control Set	2 x 2 x 0.5 ml	HA10155	36



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

DIABETES AND WHOLE BLOOD

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 to 8°C keeps waste to a minimum and helps to reduce costs.

- Lyophilised for enhanced stability
- Aqueous Based Material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 28 days at 2°C to 8°C
- Single point calibrator

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

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
- Stabilised red cell haemolysate
- 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

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

- Lyophilised for enhanced stability
- 100% human whole blood
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 14 days at 2°C to 8°C
- Multi-point calibrator
- Traceable to NGSP

Description	Size	Cat No
HbA1c Control Set Level 1 and 2	2 x 2 x 0.5 ml	HA5072
HbA1c II Calibrator Series	5 x 0.5 ml	HA8124

DIABETES AND WHOLE BLOOD

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

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 55 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 15189:2022 requirements while also eliminating shifts in QC target values when reagent batch is changed.

Immunoassay Product Range			
Product Description	Size	Cat No	Page No
AMH Control Level 1	3 x 2 ml	AMH10509	39
AMH Control Level 2	3 x 2 ml	AMH10514	39
AMH Control Level 3	3 x 2 ml	AMH10515	39
AMH Control Level 4	3 x 2 ml	AMH10516	39
Active Vitamin B12 Level 1	3 x 2 ml	VB10524	39
Active Vitamin B12 Level 2	3 x 2 ml	VB10525	39
Bone Markers (Serum) Control Level 1	6 x 2 ml	SBM10574	39
Bone Markers (Serum) Control Level 2	6 x 2 ml	SBM10587	39
Bone Markers (Serum) Control Level 3	6 x 2 ml	SBM10588	39
Bone Markers (Urine) Control Level 1	6 x 2 ml	UBM10573	40
Bone Markers (Urine) Control Level 2	6 x 2 ml	UBM10589	40
Immunoassay Premium Level 1	12 x 5 ml	IA2638	40
Immunoassay Premium Level 2	12 x 5 ml	IA2639	40
Immunoassay Premium Level 3	12 x 5 ml	IA2640	40
Immunoassay Premium Tri-Level	3 x 4 x 5 ml	IA2633	40
Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109	41
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110	41
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111	41
Immunoassay Premium Plus Tri-Level	3 x 4 x 5 ml	IA3112	41
Immunoassay Speciality I Level 1	5 x 2 ml	IAS3113	42
Immunoassay Speciality I Level 2	5 x 2 ml	IAS3114	42
Immunoassay Speciality I Level 3	5 x 2 ml	IAS3115	42
Immunoassay Speciality II Level 1	5 x 1 ml	IAS3117	42
Immunoassay Speciality II Level 2	5 x 1 ml	IAS3118	42
Immunoassay Speciality II Level 3	5 x 1 ml	IAS3119	42
Maternal Control Level 1	3 x 1 ml	MSS5024	43
Maternal Control Level 2	3 x 1 ml	MSS5025	43
Maternal Control Level 3	3 x 1 ml	MSS5026	43
Pre-eclampsia Level 1	3 x 2 x 2 ml	PE10527	43
Pre-eclampsia Level 2	3 x 2 x 2 ml	PE10528	43
Pre-eclampsia Level 3	3 x 2 x 2 ml	PE10529	43
PTH Control Level 1	3 x 3 ml	PTH10110	44
PTH Control Level 2	3 x 3 ml	PTH10111	44
PTH Control Level 3	3 x 3 ml	PTH10112	44
Tumour Marker Control Level 2	3 x 2 ml	TU5002	44
Tumour Marker Control Level 3	3 x 2 ml	TU5003	44
Ultra-Low PSA Control	6 x 1 ml	TU10523	44



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

IMMUNOASSAY

Anti-Müllerian Hormone (AMH) Control

The Randox Acusera AMH control is designed to use as a third party control for the quantitative determination of Anti-Müllerian Hormone (AMH).

- Liquid frozen
- Human based serum
- Available at recommended cut-off values for AMH
- 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
AMH Control Level 1	3 x 2 ml	AMH10509
AMH Control Level 2	3 x 2 ml	AMH10514
AMH Control Level 3	3 x 2 ml	AMH10515
AMH Control Level 4	3 x 2 ml	AMH10516

Active Vitamin B12 Control

The Acusera Active Vitamin B12 Control is designed to deliver a cost effective, high-quality solution for use in the quantitative determination of Active Vitamin B12 in human serum and plasma.

- Liquid frozen
- Human based material
- 30 days open vial stability when stored at 2°C to 8°C
- Assayed target values and ranges for a wide range of immunoassay systems

Description	Size	Cat No
Active Vitamin B12 Level 1	3 x 2 ml	VB10524
Active Vitamin B12 Level 2	3 x 2 ml	VB10525

Bone Markers (Serum) Control

Analytes

Bone Alkaline Phosphatase (B-ALP)

N-MID Osteocalcin (OC)

Procollagen Type 1 N-Terminal Propeptide (P1NP)

The Randox Acusera Bone Markers (serum) control provides a third party solution for monitoring the performance of bone markers in serum.

- Lyophilised for enhanced stability
- Human based serum
- Assayed target values and ranges for a wide range of immunoassay systems
- Stable to expiry date at 2°C to 8°C
- P1NP and B-ALP are stable for 14 days when reconstituted at 2°C to 8°C, OC is stable for 1-day when reconstituted at 2°C to 8°C

Description	Size	Cat No
Bone Markers (Serum) Control Level 1	6 x 2 ml	SBM10574
Bone Markers (Serum) Control Level 2	6 x 2 ml	SBM10587
Bone Markers (Serum) Control Level 3	6 x 2 ml	SBM10588

Bone Markers (Urine) Control

Analytes			
β2-Microglobulin C-Telopeptide*	Creatinine Deoxypyridinoline	Pyridinium Crosslinks Pyridinoline*	N-Telopeptide

The Randox Acusera Bone Markers (urine) control provides a third party solution for monitoring the performance of bone markers in urine.

- Lyophilised for enhanced stability
- Human based urine
- 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 14 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat No	
Bone Markers (Urine) Control Level 1	6 x 2 ml	UBM10573	
Bone Markers (Urine) Control Level 2	6 x 2 ml	UBM10589	*No claims are made regarding value or stability

Immunoassay Premium Control

Analytes			
17-OH-Progesterone 1,25-(OH) ₂ -Vitamin D* 25-OH-Vitamin D α-Fetoprotein (AFP) ACTH ⁺ Aldosterone Amikacin Androstenedione β2-Microglobulin C-Peptide Carbamazepine CEA Cortisol	DHEA-Sulphate Digoxin Estriol* Ethosuximide Ferritin Folate FSH Gentamicin Growth Hormone (GH) hCG Immunoglobulin E (IgE) Insulin Luteinising Hormone (LH)	Oestradiol Paracetamol Phenobarbitone Phenytoin Primidone Progesterone Prolactin PSA (Free) PSA (Total) Salicylate Sex Hormone Binding Globulin (SHBG) T Uptake T3 (Free)	T3 (Total) T4 (Free) T4 (Total) Testosterone Testosterone (Free)* Theophylline Thyroglobulin Tobramycin TSH Valproic Acid Vancomycin Vitamin B ₁₂

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 B₁₂ 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	*Values may not be provided for all levels
Immunoassay Premium Tri-level	3 x 4 x 5 ml	IA2633	*No claims are made regarding value or stability

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 B12 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 B₁₂ 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	3 x 4 x 5 ml	IA3112

*Values may not be provided for all levels

*No claims are made regarding value or stability

For Acusera Smart Immunoassay Control see page 09

Immunoassay Speciality I Control 

Analytes			
1,25-(OH) ₂ -Vitamin D 25-OH-Vitamin D Anti-Thyroglobulin (Anti-TG)	Anti-Thyroperoxidase (Anti-TPO) C-Peptide Insulin	Insulin Like Growth Factor-1(IGF-1) PTH (Parathyroid Hormone) Osteocalcin	Procalcitonin

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 C-Peptide and Procalcitonin are stable for 1 day at 2°C to 8°C IGF-1 is stable for 8 hours at 2°C to 8°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
- Reconstituted 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

Maternal Control

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

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 Control Level 1	3 x 1 ml	MSS5024
Maternal Control Level 2	3 x 1 ml	MSS5025
Maternal Control Level 3	3 x 1 ml	MSS5026

Pre-eclampsia Control

Analytes		
sFlt-1		PIGF

The Pre-eclampsia Control is intended for use with *in vitro* diagnostic assays for the quantitative determination of placental growth factor (PIGF) and soluble fms-like tyrosine kinase-1 (sFlt-1) in human serum and plasma. The Preeclampsia Control is assayed with target values and is suitable for use on various immunoassay analysers.

- **Liquid frozen**
- **Human based serum**
- **30 days open vial stability when stored at 2°C to 8°C**
- **Assayed target values and ranges for a wide range of immunoassay systems**
- **True third-party control delivering unbiased, independent performance assessment**

Description	Size	Cat No
Pre-eclampsia Level 1	3 x 2 x 2 ml	PE10527
Pre-eclampsia Level 2	3 x 2 x 2 ml	PE10528
Pre-eclampsia Level 3	3 x 2 x 2 ml	PE10529

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 -80°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

For Acusera Smart PTH Control see page 10

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

Ultra Low PSA Control

The Acusera ultra-low PSA control is intended for use with *in vitro* diagnostic assays for the quantitative determination of low levels of PSA in human serum and plasma. The control has been optimised for use with Roche systems but is suitable for use across a variety of other platforms.

- Liquid ready-to-use
- Human based serum
- Values for specific instruments are available
- 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
Ultra-Low PSA Control	6 x 1 ml	TU10523

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.

Immunology/Protein Product Range			
Product Description	Size	Cat No	Page No
Canine CRP Control Level 2	3 x 1 ml	CP2803	47
Canine CRP Control Level 3	3 x 1 ml	CP2804	47
Liquid CRP Control Level 2	10 x 1 ml	CP2480	47
Liquid CRP Control Level 3	10 x 1 ml	CP2481	47
High Sensitivity CRP Control Level 1	10 x 1 ml	CP2476	47
High Sensitivity CRP Control Level 2	10 x 1 ml	CP2477	47
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478	47
CRP Full Range Calibrator	6 x 1 ml	CP2499	47
CSF Control Level 2	10 x 3 ml	CF1500	48
CSF Control Level 3	10 x 3 ml	CF1501	48
Liquid CSF Control Level 1	10 x 3 ml	CF10138	48
Liquid CSF Control Level 2	10 x 3 ml	CF10139	48
Cystatin C Control Level 2	3 x 2 ml	CYS10446	49
Cystatin C Control Level 3	3 x 2 ml	CYS10447	49
Cystatin C Calibrator	5 x 2 ml	CYS10445	49
Cystatin C Control Level 2	3 x 2 ml	CYS5019	49
Cystatin C Control Level 3	3 x 2 ml	CYS5020	49
Cystatin C Calibrator	5 x 2 ml	CYS2699	49
IgE Calibrator Series	6 x 1 ml	IE2492	49
Immunoglobulin Liquid Protein Calibrator	3 x 1 ml	IT3861	49
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2691	50
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2692	50
Specific Protein Control Level 1	3 x 1 ml	PS2682	51
Specific Protein Control Level 2	3 x 1 ml	PS2683	51
Specific Protein Control Level 3	3 x 1 ml	PS2684	51
Specific Protein Control Level 1	6 x 3 ml	PS10221	51
Specific Protein Control Level 2	6 x 3 ml	PS10222	51
Specific Protein Control Level 3	6 x 3 ml	PS10223	51
sTfR Control Level 1 & 2	2 x 3 x 1 ml	TF10162	51
sTfR Calibrator	6 x 1 ml	TF10161	51
Xanthochromia Positive Control	6 x 4 ml	XN10505	52
Xanthochromia Negative Control	6 x 4 ml	XN10502	52



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

IMMUNOLOGY/PROTEIN

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

CRP Controls and Calibrator

Analytes

CRP

hsCRP

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
- Multi-point calibrator

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
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478
CRP Full Range Calibrator	6 x 1 ml	CP2499

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

*No claims are made regarding values or stability

Liquid CSF Control

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

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

IMMUNOLOGY/PROTEIN

Cystatin C Controls and Calibrators

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
- Multi-point calibrator

For use with Calibrator CYS10445

Description	Size	Cat No
Cystatin C Control Level 2	3 x 2 ml	CYS10446
Cystatin C Control Level 3	3 x 2 ml	CYS10447
Cystatin C Calibrator	5 x 2 ml	CYS10445

For use with Calibrator CYS2699

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

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
- Multi-point calibrator

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

Immunoglobulin Liquid Protein Calibrator

Analytes

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

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
- Single point calibrator

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

Specific Protein Calibrator 

Analytes		
Anti-Streptolysin O (ASO)	CRP	Prealbumin
Complement C3	Ferritin	Rheumatoid Factor (RF)
Complement C4	Haptoglobin	Transferrin

Multi-analyte calibrator designed for use in the routine calibration of 9 serum proteins including ASO, Ferritin and Rheumatoid Factor (RF). 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
- Multi-point calibrator

Description	Size	Cat No	
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2691	FOR USE WITH SAMPLES THAT <u>DO NOT</u> REQUIRE PRE-DILUTION

Specific Protein Calibrator - Requires pre-dilution 

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

Multi-analyte calibrator designed for use in the routine calibration of 3 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
- Multi-point calibrator

Description	Size	Cat No	
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2692	FOR USE WITH SAMPLES THAT REQUIRE PRE-DILUTION

IMMUNOLOGY/PROTEIN

Specific Protein Control

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

Covering a unique combination of 25 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

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 use 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
- Multi-point calibrator

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

Xanthochromia Control 

Analytes	
Oxyhaemoglobin	Bilirubin

Designed to deliver a cost-effective, high-quality solution for the testing of Xanthochromia. An unassayed control suitable for use on various UV spectrophotometer analysers.

- Liquid frozen
- Aqueous material
- Stable to for 90 days at -18°C to -24°C or 180 days at -70°C to -90°C
- Open vial stability of up to 2 days at 2°C to 8°C

Description	Size	Cat No
Xanthochromia Positive Control	6 x 4 ml	XN10505
Xanthochromia Negative Control	6 x 4 ml	XN10502

INFECTIOUS DISEASE CONTROLS (SEROLOGY)

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. These liquid ready-to-use controls come with an unrivalled stability therefore helping laboratories save time and money with added consolidation. Negative controls are also available within our Serology Controls portfolio.

INFECTIOUS DISEASE (SEROLOGY)

Infectious Disease (Serology) Product Range			
Product Description	Size	Cat No	Page No
EBV Positive Control	1 x 5 ml	SR10350	55
Lyme Disease Negative Control	1 x 5 ml	SR10345	56
Lyme Disease Positive Control	1 x 5 ml	SR10346	56
HBeAg Positive Control	1 x 5 ml	SR10459	56
HIV-1 P24Ag Positive Control	1 x 5 ml	SR10458	56
Serology Negative Control	6 x 5 ml	SR10351	56
Serology I Positive Control	3 x 5 ml	SR10352	56
Serology II Positive Control	3 x 5 ml	SR10353	56
Serology III Positive Control	3 x 5 ml	SR10354	56
ToRCH Negative Control	6 x 5 ml	SR10347	57
ToRCH IgG Positive Control	3 x 5 ml	SR10348	57
ToRCH IgM Positive Control	3 x 5 ml	SR10349	57



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

INFECTIOUS DISEASE (SEROLOGY)

Epstein Barr Virus (EBV) Control

Analytes

Epstein Barr Virus (EBV) EBNA IgG

Epstein Barr Virus (EBV) VCA IgG

Epstein Barr Virus (EBV) VCA IgM

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

- Liquid ready-to-use
- 100% human based serum
- 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

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 based serum
- 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

INFECTIOUS DISEASE (SEROLOGY)

Serology Controls



Analytes			
HBeAg Positive (RUO) HBeAg	Anti-HCV Anti-HIV 1 / 2 Anti-HTLV 1 / 2 HAV IgM HBc IgM HBeAg HBsAg HIV P24Ag <i>Treponema pallidum</i> (Syphilis) IgG	Serology I Positive Anti-HCV Anti-HIV 1 / 2 Anti-HTLV 1 / 2 HBsAg <i>Treponema pallidum</i> (Syphilis) IgG	Serology II Positive Anti-HAV Anti-HBc Anti-HBe Anti-HBs
HIV-1 P24 Ag Positive (RUO) HIV-1 P24Ag			
Serology Negative Anti-HAV Anti-HBc Anti-HBe Anti-HBs			Serology III Positive HAV IgM HBc IgM

The Acusera Serology control range comprises both positive and negative controls for a wide range of pathogens including HIV & Hepatitis, are supplied as liquid ready-to-use and are suitable for use on most immunoassay analysers.

- Liquid ready-to-use
- 100% human serum
- 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
HBeAg Positive Control	1 x 5 ml	SR10459
HIV-1 P24Ag Positive Control	1 x 5 ml	SR10458
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

INFECTIOUS DISEASE (SEROLOGY)

ToRCH Controls



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

Our ToRCH portfolio includes positive controls for both IgG and IgM antibodies in addition to a negative control. Each control is manufactured using human serum 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 serum
- 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

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
Apolipoprotein Control Level 1	3 x 1 ml	LE5016	60
Apolipoprotein Control Level 2	3 x 1 ml	LE5017	60
Apolipoprotein Control Level 3	3 x 1 ml	LE5018	60
Apolipoprotein Calibrator	3 x 1 ml	LP3023	60
Apolipoprotein Calibrator 2	3 x 1 ml	LP5047	60
Direct HDL/LDL Cholesterol Calibrator (Clearance)	3 x 1 ml	CH2673	60
Lipid Control Level 1	5 x 1 ml	LE2668	61
Lipid Control Level 2	5 x 1 ml	LE2669	61
Lipid Control Level 3	5 x 1 ml	LE2670	61
Lipid Control Level 1	5 x 3 ml	LE2661	61
Lipid Control Level 2	5 x 3 ml	LE2662	61
Lipid Control Level 3	5 x 3 ml	LE2663	61
Lipoprotein (a) Control Level 3	3 x 1 ml	LP3406	61
Lipoprotein (a) Calibrator Series	5 x 1 ml	LP3404	61
sLDL Control Level 1	3 x 1 ml	LE5013	61
sLDL Control Level 2	3 x 1 ml	LE5014	61
sLDL Control Level 3	3 x 1 ml	LE5015	61
sLDL Calibrator	3 x 1 ml	CH5050	61



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

Apolipoprotein Control and Calibrators



Analytes		
Apolipoprotein Control	Apolipoprotein Calibrator	Apolipoprotein Calibrator 2
Apolipoprotein A-II Apolipoprotein C-II Apolipoprotein C-III Apolipoprotein E	Apolipoprotein A-I Apolipoprotein B	Apolipoprotein A-II Apolipoprotein C-II Apolipoprotein C-III 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 7 days at 2°C to 8°C for Apolipoprotein A-II, Apolipoprotein C-II and Apolipoprotein C-III, Apolipoprotein E is stable for 8 hours at 2°C to 8°C All analytes are stable for 4 weeks at -20°C
- Calibrator - reconstituted stability of 7 days at 2°C to 8°C for Apolipoprotein A-II and Apolipoprotein C-II, Apolipoprotein E is stable for 8 hours at 2°C to 8°C All analytes are stable for 4 weeks at -20°C
- Multi-point calibrator

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

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
- Single point calibrator

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

LIPIDS

Lipid Control

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

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

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
- Multi-point calibrator

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
- Single point calibrator

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

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

Speciality and Research Product Range			
Product Description	Size	Cat No	Page No
Antimicrobial Control III	3 x 1 ml	AMC5036	64
Cerebral Array II Tri-Level Control	3 x 3 x 0.5 ml	CBB5009	64
Cytokine Array I Tri-Level Control	3 x 3 x 1 ml	CY5006	65
High Sensitivity Cytokine Array Tri-Level Control	3 x 3 x 2 ml	CY5005	65
Cytokine Array III Tri-Level Control	3 x 3 x 1 ml	CY5012	65
Cytokine Array IV Tri-Level Control	3 x 3 x 1 ml	CY5011	65
Metabolic Syndrome Array I Control	3 x 3 x 1 ml	EV3757	66
Metabolic Syndrome Array I Calibrator	9 x 1 ml	EV3756	66
Metabolic Syndrome Array II Control	3 x 3 x 1 ml	EV3761	66
Metabolic Syndrome Array II Calibrator	9 x 1 ml	EV3760	66



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

SPECIALITY AND RESEARCH

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

Cerebral Array II Control

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

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

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- Recombinant proteins in buffer
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 4 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) Interferon γ (IFN γ) Interleukin-1 α (IL-1 α) Interleukin-1 β (IL-1 β)	Interleukin-2 (IL-2) Interleukin-4 (IL-4) Interleukin-6 (IL-6) Interleukin-8 (IL-8)	Interleukin-10 (IL-10) Monocyte Chemoattractant Protein-1 (MCP-1) Tumour Necrosis Factor α (TNF α) 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
- Recombinant proteins in buffer
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 4 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 21 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 III Control

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

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

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- Human based recombinant antigen
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 4 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 Interleukin-2-Receptor α (sIL-2R α) Soluble Interleukin-6-Receptor (sIL-6R)		Soluble Tumour Necrosis Factor Receptor I (sTNFRI) Soluble Tumour Necrosis Factor Receptor II (sTNFRII)

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

- Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- Native human antigen in buffer
- 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
Cytokine Array IV Tri-Level Control	3 x 3 x 1 ml	CY5011

SPECIALITY AND RESEARCH

Metabolic Syndrome Array I Control and Calibrator

Analytes		
Ferritin Insulin Interleukin-1 α (1L-1 α)	Interleukin-6 (1L-6) Leptin	Plasminogen Activator Inhibitor-1 Resistin Tumour Necrosis Factor α (TNF α)

A multi-analyte control with target values and ranges provided for 8 analytes associated with metabolic syndrome.

- Assayed values available for Randox Biochip systems
- Native antigens in buffer base
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 4 hours at 2°C to 8°C and 28 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	CRP	Cystatin C

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
- Recombinant antigen in buffer base
- 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

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 Calibrator	6 x 3 ml	TD3417	69
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



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

THERAPEUTIC DRUG

Therapeutic Drug Calibrator

Analytes			
Carbamazepine Digoxin	Phenobarbitone	Phenytoin	Valproic Acid

The Acusera Therapeutic Drug calibrator has been designed for use in the calibration of 5 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
- Multi-point calibrator

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

Therapeutic Drug Control

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

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

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	72
Assayed Urine Control Level 3	12 x 10 ml	AU2353	72
Liquid Urine Control Level 2	10 x 10 ml	UC5074	72
Liquid Urine Control Level 3	10 x 10 ml	UC5075	72
Microalbumin Calibrator Series	6 x 2 ml	MA1567	73
Urinalysis Control Level 1	12 x 12 ml	UC5033	73
Urinalysis Control Level 2	12 x 12 ml	UC5034	73
Urine Low Osmolality Control	6 x 2 ml	UC10650	73



Liquid
ready-to-use



Liquid
frozen



Lyophilised for
enhanced stability



Assayed target
values provided



100% human
matrix

Assayed Urine Control 

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

*No claims are made regarding stability

Liquid Urine Control 

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

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

Microalbumin Calibrator

Our Acusera Microalbumin 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 calibrator, 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 Calibrator Series	6 x 2 ml	MA1567

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

NEW

Urine Low Osmolality Control

Our Acusera Urine Low Osmolality Quality Control is designed to deliver a cost effective, high-quality solution for use with assays for the quantitative determination of low levels of osmolality in human urine.

- Liquid ready-to-use
- Human based 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
Urine Low Osmolality Control	6 x 2 ml	UC10650

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

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Diabetes & Whole Blood Controls
Immunoassay Controls

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B	β-Globulin (Electrophoresis)		
	β-2-Microglobulin	x x	
	BASO-X		

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B	BASO-Y	
	Basophils (BASO)	
	% Basophils (% BASO)	
	Bicarbonate	x
	Bile Acids	x
	Bilirubin (Direct)	x
	Bilirubin (Total)	x
	Blood	
	Bone Alkaline Phosphatase (B-ALP)	
	Borrelia burgdorferi IgG	
	Borrelia burgdorferi IgM	
	Brain Natriuretic Peptide (BNP)	x
C	C-Peptide	x
	C-Telopeptide	
	CA 15-3	x
	CA 19-9	
	CA 72-4	
	CA 125	x
	Caffeine	x
	Calcitonin	
	Calcium	x
	Carbamazepine	x x
	CEA	x x
	Ceruloplasmin	x
	Chloramphenicol	
	Chloride	x
	Cholesterol (HDL)	x
	Cholesterol (LDL)	x
	Cholesterol (Total)	x
	Cholinesterase	x
	CK-MB	x
	CK-NAC	
	CK (Total)	x
	Complement C3	x
	Complement C4	x
	Copper	x
	Cortisol	x x
	Creatinine	x
	CRP	x
	Cyclosporine	
	Cytomegalovirus (CMV) IgG	
	Cytomegalovirus (CMV) IgM	
	CYFRA 21	
	Cystatin C	
D	D-3-Hydroxybutyrate	x
	D-dimer	
	Deoxypyridinoline	
	DHEA-Sulphate	x x
	DIFF-X	
	DIFF-Y	
	Digoxin	x x x
	Dopamine	
E	Eosinophils (EOS)	
	% Eosinophils (% EOS)	
	Epidermal Growth Factor (EGF)	

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x			
x			
x			
x			
x			
x			
x			
x			
x			
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x			
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x			
x			
x			
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x			
		Urine Controls	
x			

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	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		
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	IMIDC	20
	IMIRF	20
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	Immunoglobulin A (IgA)	x
	High Sensitivity Immunoglobulin A (hsIgA)	
	Immunoglobulin E (IgE)	x x
	Immunoglobulin G (IgG)	x
	High Sensitivity Immunoglobulin G (hsIgG)	
	Immunoglobulin M (IgM)	x
	High Sensitivity Immunoglobulin M (hsIgM)	
	Inhibin A	
	Insulin	x
	Insulin Like Growth Factor (IGF 1)	x
	Interferon- γ (IFN- γ)	
	Interleukin-1 α (IL-1 α)	
	Interleukin-1 β (IL-1 β)	
	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	x
	Iron (TIBC)	x
	Iron (UIBC)	
K	Kappa Light Chain	
	Ketones	
L	Lactate	x
	Lactate Dehydrogenase (LDH)	x
	Lambda Light Chain	
	LAP	
	Leptin	
	Leukocytes	
	Lipase	x
	Lipemia (L)	
	Lipoprotein (a)	x
	Lithium	x
	Luteinising Hormone (LH)	x x
	Lymphocytes (LYMPH)	
	% Lymphocytes (% LYMPH)	
M	Macrophage Inflammatory Protein-1 α (MIP-1 α)	
	Magnesium	x
	Matrix Metalloproteinase-9 (MMP-9)	
	Measles IgG	
	Mean Corpuscular Haemoglobin (MCH)	
	Mean Corpuscular Haemoglobin Concentration (MCHC)	
	Mean Corpuscular Volume (MCV)	
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	Metanephrine	
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O	Oestradiol	x	Bone Markers (Serum) Control									
	Osmolality	x	Bone Markers (Urine) Control									
	Osteocalcin		Immunoassay Premium Control									
	Oxalate		Immunoassay Premium Plus Control									
	Oxyhaemoglobin		Immunoassay Speciality I Control									
P	Paracetamol	x x	Immunoassay Speciality II Control									
	PAPP-A		Maternal Control									
	pCO ₂											
	pH											
	Phenobarbital	x										
	Phenobarbitone	x										
	Phenytoin	x x										
	Phosphate (Inorganic)	x										
	PIGF											
	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	x										
	Potassium	x										
	Prealbumin	x										
	Primidone											
	Procalcitonin											
	Procollagen Type 1 N-Terminal Propeptide (PINP)											
	Progesterone	x x										
	Prolactin	x x										
	Protein C											
	Protein S											
	Protein (Total)	x										

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	T3 (Free)	x x		
	T4 (Free)	x x		
	T3 (Total)	x x		
	T4 (Total)	x x		
	Testosterone	x x		
	Testosterone (Free)			
	Tetracyclines (Generic)			
	Theophylline	x x		
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	Urea	x	
	Uric Acid (Urate)	x	
	Urine Osmolality		
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V	Valproic Acid	x	x
	Vancomycin	x	x
	Vanillylmandelic Acid (VMA)		
	Varicella Zoster Virus (VZV) IgG		
	Vascular Cell Adhesion Molecule-1 (VCAM-1)		
	Vascular Endothelial Growth Factor (VEGF)		
	Vitamin B ₁₂	x	x
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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.



Unique dashboard interface

- Instantly flags any rule violations from the last 7 days, reducing time spent analysing QC data.
- Warns you when QC lots are approaching expiry, avoiding the use of expired QC material.



True real-time peer group statistics *

- Peer data is uniquely updated live in real-time ultimately reducing time and money spent troubleshooting, re-running samples and performing instrument maintenance.
- Instantly discover how you compare to other laboratories using the same lot of QC material and identify if issues are unique to your laboratory or a widespread issue.
- No submission deadlines for QC data.

* T&Cs apply



Advanced statistical analysis

- Sigma scores, Bias%, Total Error and other performance indicators are automatically calculated, enabling enhanced performance assessment and improved QC strategy design.
- Reject or alert data based on QC multi-rules or user-defined performance limits including RiliBÄK, CLIA and Biological Variation.
- Uncertainty of Measurement (UM) is automatically calculated for each assay and QC lot helping to meet ISO 15189:2022 requirements.



Fully interactive charts

- Levey-Jennings, Histogram and Performance Summary Charts can be generated on-demand for quick and easy performance monitoring.
- The ability to add events and multiple data sets to a single chart ultimately allows for better identification of trends across multiple instruments.



Comprehensive reports

- Specifically designed to speed up the review process, our comprehensive range of easy-to-read reports includes: Data Review, Daily Data Review Report, Exception Report and Statistical Reports.
- Reports can be customised to show data for a specific date range and can be filtered to display data for a particular test or instrument.



Automated data import via Acusera 24•7 Connect

- An optional software solution that allows easy and automated upload of QC data direct to Acusera 24•7 via LIMS or Middleware.
- Eliminates problems associated with manual data entry and increases laboratory efficiency.

BENEFITS



Highly flexible to meet individual laboratory needs

- Custom configuration of performance limits, multi-rules, consensus groups and target values for each instrument or QC lot.
- Although intended for use with the Acusera control range, the software's internal functions may be used with any manufacturer's QC material.



Simple and intuitive interface

- The software is fast, powerful and easy to use, therefore delivering an enhanced user experience.
- Colour coded throughout, providing an instant visual indication of poor performance.
- Simple assay configuration with ability to share a configuration across multiple instruments or affiliated labs.



Online access anytime, anywhere

- Cloud based software, eliminating the need for local installation and frequent back ups.



Multiple lab management

- Compare performance to a global peer group or other laboratories in your affiliate network in real-time.
- Stay on top of individual laboratory performance and activity from a central 'co-ordinator' account – accessible anywhere, anytime by users with 'co-ordinator' level access.
- Easily compare performance of individual laboratories within the affiliate group via multi Levey-Jennings, Histogram, Performance Summary Charts and Statistics.



Technical support

- Expert technical support is available from our team of highly trained specialists.
- Remote access enables immediate troubleshooting without the need for on-site assistance.



World class controls

- World leading controls offering unrivalled commutability, consolidation, stability and consistency.

ORDERING DETAILS

ORDERING DETAILS			
Description	Cat. No.	Description	Cat. No.
Acusera 24•7 (1 - year licence)	QC4218	Acusera 24•7 Cloud Connect	QC4228
Acusera 24•7 Configuration/Mapping	QC4224	Installation of Randox Connect Box (Onsite)	QC4229
Acusera 24•7 Training (on-site)	QC4225	Installation of Customer Connect Box (Onsite)	QC4230
Acusera 24•7 Training (remote)	QC4226	Installation of Customer Connect Box (Remote)	QC4231
Acusera 24•7 Connect Box	QC4227	Acusera 24•7 End User Cloud Connect*	QC4232

* 1 connection

USER FEEDBACK

INTERACTIVE LEVEY-JENNINGS CHARTS

*"Every 2 months we would have had to take screenshots from LIMS of every Levey Jennings Chart per analyser. This would have taken 24 hours per analyser. And now with Acusera this takes us 1 hour per analyser." **

Hours lost annually before using Acusera 24•7 amounted to 138 hours

Levey-Jennings charts are easily generated, providing an instant, visual indication of test system performance over time. The ability to combine multiple instruments, analytes, QC lots and labs on a single chart allows for comparative performance assessment and immediate visualisation of any ongoing or emerging trends.



AUTOMATIC UNCERTAINTY OF MEASUREMENT (UM) CALCULATION

*"Every month we take a member of staff out of the lab for a full day to calculate measurement uncertainty, sometimes 2 days." **

Hours lost annually before using Acusera 24•7 amounted to 192 hours

The unique Uncertainty of Measurement report displays the UM of all QC tests currently in use, helping you to meet ISO 15189:2022 requirements. Participants can generate a report for all open QC tests or they can select single or multiple QC tests from the home screen thereby offering greater control over test performance.

DAILY DATA REVIEW REPORT

*"QC daily review – would have before taken the staff approx. 2 hours to do on LIMS and with Acusera 24•7 it takes about 20 mins and allows you to review multiple lots at one time." **

Hours lost annually before using Acusera 24•7 amounted to 608 hours

Designed to allow for quick and easy reviewing of all QC results and violations daily within a 7 day window, thus, giving greater control of any potential issues occurring before they become widespread. Filter your QC results to view all results, violated results or specifically the rejected or alerted results whilst also determining whether they have been previously reviewed or not reviewed.



*"Over time, and with Randox's assistance, 24•7 has become part and parcel of everyday IQC monitoring and management." **

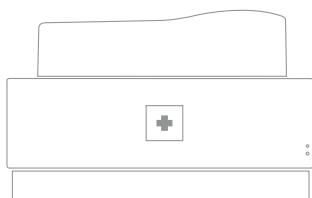
Integrating Acusera 24•7 into a laboratory's QC workflow could lead to a potential saving of 938 hours annually.

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.



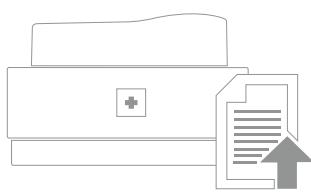
- 1 Analyser generates QC result.



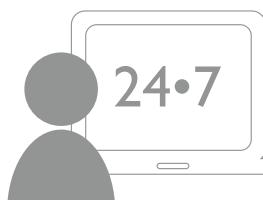
- 2 QC result is manually entered by the user into the Acusera 24•7 software.

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.

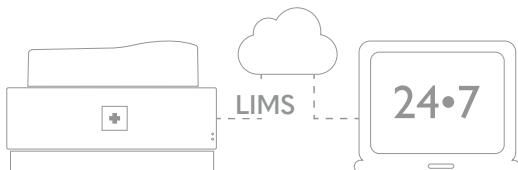
Fully automated import of QC data direct from your LIMS/Middleware

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.

Acusera 24•7 Connect



- 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.

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

Randox International Quality Assessment Scheme RIQAS

RIQAS is the largest international EQA scheme, used by more than 76,000 laboratory participants in over 140 countries worldwide. This large number of participants ensures an extensive database of results for many analytical methods, directly increasing statistical validity as a result.



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, allows 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 (volume permitting) 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 implemented earlier, potentially reducing costly errors with patient results.



High Quality Samples

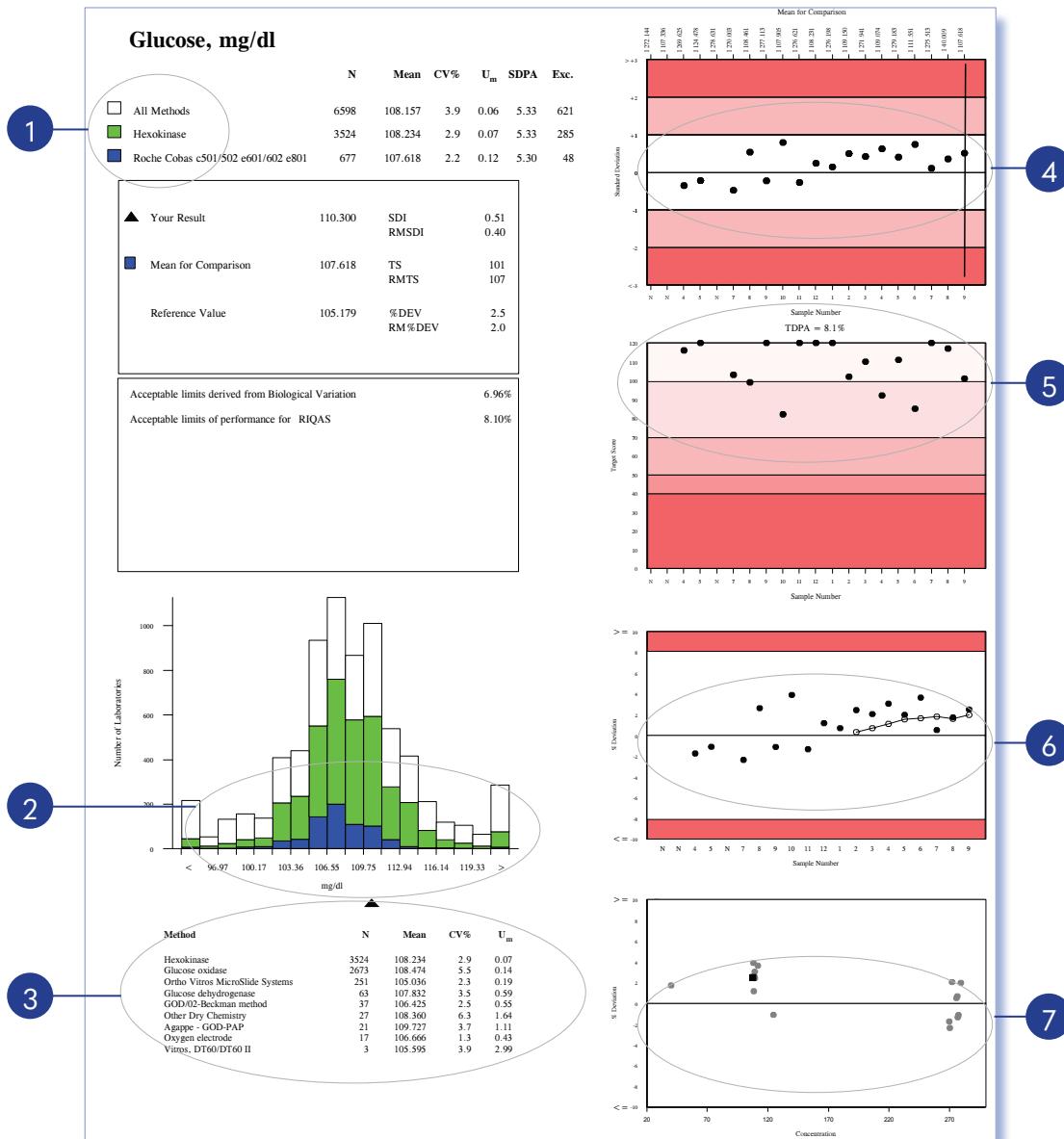
- Samples spanning clinically relevant levels allow identification of concentration related biases, helping to ensure accurate instrument performance.
- Human samples free from interfering preservatives increase confidence that EQA performance mirrors the performance of patient samples.
- Reference method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



Highly Accredited

- RIQAS is accredited to ISO/IEC 17043:2010 "Conformity Assessment – General Requirements for Proficiency Testing" which is accepted by national and international accreditation bodies. Please see accreditation schedule for additional information.

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



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

RQ9198 (1 ml)
1 Parameter
Samples every month, 1 x 12 month cycle, 12 month subscription

Anti-Müllerian Hormone (AMH)

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
11 Parameters + 1 pilot
Samples every month, 1 x 12 month cycle, 12 month subscription

Bicarbonate
Ca++
Cl-

CO₂(Total)
Glucose
H+ *

Lactate
K+
Na+

pCO₂
pH
pO₂

Blood Typing Programme +

RQ9206 (4 ml & 2 ml)
6 Tests
2 challenges per quarterly distribution, 1 x 12 month cycle, 12 month subscription

ABO Group
Antibody Identification

Antibody Screen
Antigen Typing

Compatibility (Cross-Match)

Rh(D)

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

CK, Total
CK-MB (Activity)

RQ9127/b (1 ml)
Full 7 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

CK-MB (Mass)
Homocysteine

RQ9186 (1 ml)
Full 7 Parameters
Samples every month, 1 x 12 monthly cycle, 12 month subscription

Myoglobin
Troponin I

Troponin T

Cardiac Plus Programme *With target scoring*

RQ9190 (3 ml)
11 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

CK, Total
CK-MB Activity
CK-MB Mass

D-dimer
Digoxin
Homocysteine

hsCRP
Myoglobin
NT proBNP

Troponin I
Troponin T

Cerebrospinal Fluid Programme • *With target scoring*

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

Albumin
Chloride

Glucose
IgG

Lactate
Protein (Total)

Sodium

RIQAS PROGRAMMES

Coagulation Programme With target scoring



RQ9135/a (1 ml)
5 Selected parameters only + 1 pilot
(aPTT, PT, TT, Fibrinogen, Antithrombin III)
Samples every month, 1 x 12 month cycle, 12 month subscription

RQ9135/b (1 ml)
Full 17 Parameters + 1 pilot

aPTT
PT (including INR)
TT
Fibrinogen
Antithrombin III

D-dimer*
Factor II
Factor V
Factor VII
Factor VIII

Factor IX
Factor X
Factor XI
Factor XII
Plasminogen

Protein C
Protein S
Protein S (Free)

CO-Oximetry Programme+ With target scoring



RQ9177 (1.2 ml)
First registered instrument
5 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

RQ9177/A (1.2 ml)
Subsequent instruments
5 Parameters

Carboxyhaemoglobin (COHb / HbCO)
Deoxyhaemoglobin (HHb)

Methaemoglobin (MetHb)

Oxyhaemoglobin (O2Hb / HbO2)

Total Haemoglobin (tHb)

CYFRA 21-1 Programme• With target scoring



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

CYFRA 21-1 (Cytokeratin 19 fragment)

Cytokines Programme• With target scoring for IL-6



RQ9195 (1 ml)
1 Parameter + 11 pilots
Samples every month, 1 x 12 month cycle, 12 month subscription

Epidermal Growth Factor (EGF)*
Interleukin - 1 alpha (IL-1α)*
Interleukin - 1 beta (IL-1β)*
Interleukin - 2 (IL-2)*

Interleukin - 4 (IL-4)*
Interleukin - 6 (IL-6)
Interleukin - 8 (IL-8)*
Interleukin - 10 (IL-10)*

Interferon gamma (INF-γ)*
Monocyte Chemoattractant Protein -1 (MCP-1)*
Tumour Necrosis Factor alpha (TNF-α)*

Vascular Endothelial Growth Factor (VEGF)*

ESR Programme• With target scoring



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

ESR (Erythrocyte Sedimentation Rate)

General Clinical Chemistry Programme With target scoring



RQ9112/a (5 ml)
10 Parameters + 6 pilots

RQ9112/b (5 ml)
17 Parameters + 6 pilots

RQ9112/c (5 ml)
Full 56 Parameters + 6 pilots

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

RQ9128 (5ml)
Full 56 Parameters + 6 pilots
Samples every month, 1 x 12 monthly cycle, 12 month subscription

ACE (Angiotensin Converting Enzyme)
Acid Phosphatase (Prostatic)
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase
ALT (ALAT)
Amylase (Pancreatic)
Amylase (Total)
Anion Gap*
AST (ASAT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Calcium, Adjusted

Calcium (Ionised)
Chloride
Cholesterol
Cholinesterase
CK, Total (CPK)
Copper
Creatinine
D-3-Hydroxybutyrate
eGFR (estimated glomerular filtration rate)
FIB-4*
Fructosamine
γGT
GLDH
Glucose
HBDH
HDL-Cholesterol

Iron
Lactate
LD (LDH)
LDL-Cholesterol
Lipase
Lithium
Magnesium
NEFA
Non-HDL Cholesterol
Osmolality
Osmolar Gap*
Phosphate (Inorganic)
Potassium
Protein (Total)
PSA
Sodium

TIBC
T - Uptake*
T₃ (Free)
T₃ (Total)
T₄ (Free)
T₄ (Total)
Transferrin*
Transferrin Saturation*
Triglycerides
TSH
UIBC
Urea
Uric Acid
Zinc

Glycated Haemoglobin Programme (HbA1c) With target scoring



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

HbA1c

Total Haemoglobin

RIQAS PROGRAMMES

Haematology Programme With target scoring

RQ9118 (2 ml) 11 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription	RQ9140 (2ml) 11 Parameters Samples every month, 1 x 12 monthly cycle, 12 month subscription
Haematocrit (HCT) Haemoglobin (Hb) Mean Cell Haemoglobin (MCH)	Mean Cell Haemoglobin Concentration (MCHC) Mean Cell Volume (MCV)

Human Urine Programme With target scoring

RQ9115 (2 x 10 ml) 25 Parameters + 2 pilots Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription	RQ9185 (10ml) 25 Parameters + 2 pilots Samples every month, 1 x 12 monthly cycle, 12 month subscription
ACR Albumin/Microalbumin Amylase Anion Gap* Calcium Chloride Copper	Cortisol Creatinine Dopamine Epinephrine Glucose Metanephrine Norepinephrine

Immunoassay Programme With target scoring

RQ9125/a (5 ml) 4 Parameters only + 4 pilots Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c)	RQ9125/b (5 ml) 13 Parameters only + 4 pilots	RQ9125/c (5 ml) Full 50 Parameters + 4 pilots	RQ9130 (5 ml) Full 51 Parameters + 4 pilots Samples every month, 1 x 12 month cycle, 12 month subscription RQ9130
ACTH AFP Aldosterone Amikacin Androstenedione β-2-Microglobulin CA125 CA15-3 CA19-9 Carbamazepine CEA Cortisol C-Peptide DHEA-Sulphate	DHEA Unconjugated Digoxin Estriol (Only available in RQ9130) Free Androgen Index (FAI)* Ferritin Folate FSH Gentamicin GH hCG IgE Insulin LH Oestradiol	17-OH-Progesterone Paracetamol Phenobarbital Phenytoin Progesterone Prolactin PSA (Free) PSA (Total) PTH (Parathyroid Hormone) PTH (1-84) Salicylate SHBG T-Uptake* T ₃ (Free)	T ₃ (Total) T ₄ (Free) T ₄ (Total) Testosterone (Free)* Testosterone (Total) Theophylline Thyroglobulin TSH Valproic Acid Vancomycin Vitamin B12 1,25-(OH) ₂ -Vitamin D* 25-OH-Vitamin D

Immunoassay Speciality 1 Programme With target scoring

RQ9141 (2 ml) 10 Parameters + 1 pilot Samples every month, 1 x 12 month cycle, 12 month subscription			
1,25-(OH) ₂ -Vitamin D* 25-OH-Vitamin D C-Peptide	Anti-TG Anti-TPO IGF-1	Osteocalcin Procalcitonin PTH (Parathyroid Hormone)	PTH (1-84) Insulin

Immunoassay Speciality 2 Programme With target scoring

RQ9142 (1 ml) 5 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription			
Calcitonin Gastrin	Procalcitonin	Plasma Renin Activity	Renin (Direct Concentration)

Immunosuppressant Programme • With target scoring

RQ9159 (2 ml) 4 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription, reference method values			
Ciclosporin	Everolimus	Sirolimus	Tacrolimus

Lipid Programme With target scoring

RQ9126/a (3 ml) 3 Parameters only (choose from 7) Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription	RQ9126/b (3 ml) Full 7 Parameters		
Apolipoprotein A1 Apolipoprotein B	Cholesterol (Total) HDL-Cholesterol	LDL-Cholesterol Lipoprotein (a)	Triglycerides

RIQAS PROGRAMMES

Maternal Screening Programme With target scoring



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

AFP
free β-hCG

Total hCG
Inhibin A

PAPP-A

Unconjugated Oestriol

Microbiology (Bacterial Identification) Programme+



RQ9197
1 strain (complete with case study)
Samples every 2 months, 1 x 12 month cycles, 12 month subscription

Antimicrobial Susceptibility Testing

Strain Identification

1 strain complete with case study Identification of the micro-organisms can be made at Gram positive / negative, Genus and Species level Antimicrobial Susceptibility Testing on identified strain

Neonatal Bilirubin Programme With target scoring



RQ9191 (3 ml)
2 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Direct Bilirubin

Total Bilirubin

Pre-eclampsia Programme+



RQ9207 (1 ml)
4 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

PAPP-A

PIGF

sFlt-1

sFlt-1/PIGF ratio

Serology Chagas Programme+



RQ9208 (1 ml)
1 Parameter
Samples every month, 1 x 12 month cycle, 12 month subscription

Trypanosoma Cruzi Antibodies

Serology (EBV) Programme+



RQ9153 (1 ml)
3 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-EBNA IgG

Anti-EBV VCA IgG

Anti-EBV VCA IgM

Serology (HIV-Hepatitis) Programme+



RQ9151 (1.8 ml)
16 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-CMV (Total)
Anti-HAV IgM
Anti-HAV (Total)
Anti-HBC

Anti-HBc IgM
Anti-HBc (Total)
Anti-HBs (Total)
Anti-HCV

Anti-HIV-1
Anti-HIV-2
Anti-HIV combined
Anti-HTLV I

Anti-HTLV II
Anti-HTLV combined
HBsAg
P24

Serology (Syphilis) Programme+



RQ9154 (1 ml)
1 Parameter
Samples every month, 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)
15 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-CMV IgG
Anti-CMV IgM
Anti-HSV1 IgG
Anti-HSV1 IgM

Anti-HSV2 IgG
Anti-HSV2 IgM
Anti-HSV1/2 IgG
Anti-HSV1/2 IgM

Anti-Measles IgG
Anti-Mumps IgG
Anti-Rubella IgG
Anti-Rubella IgM

Anti-Toxoplasma IgG
Anti-Toxoplasma IgM
Anti-VZV IgG

THIRD PARTY ROUTINE & NOVEL 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. We have an extensive test menu of more than 100 assays, covering over 100 disease markers including specific proteins, lipids, therapeutic drug monitoring, antioxidants, diabetes and veterinary testing. A wide range of formats and methods are available providing greater flexibility and choice for any laboratory size. In addition to flexible pack sizes and a comprehensive list of analyser applications, we can also provide dedicated reagent packs (Randox Easy Read and Easy Fit reagents) for a wide range of chemistry analysers providing you with freedom of choice from an independent manufacturer.

REAGENTS TESTING PANELS

CLINICAL CHEMISTRY

Aldolase	Cholesterol	Glycerol	Triglycerides
Alkaline Phosphatase	Cholinesterase (Butyryl)	Haemoglobin	Sodium
Albumin	CK-MB	Iron	Syphilis
ALT	CK-NAC	L-Lactate	Total Protein
Ammonia	CO ₂ Total	Lactate Dehydrogenase	Urinary Protein
Amylase	Copper	Lipase	Urea
Amylase Pancreatic	Creatinine	Magnesium	Uric Acid
AST	Ethanol	Phosphorus	Zinc
Bile Acids	G6PDH	Potassium	
Bilirubin	Gamma GT	Ranbut	
Calcium	GLDH	TIBC	

SPECIFIC PROTEINS

Anti-Streptolysin O	Complement C3	HbA1c II Direct	Rheumatoid Factor
Apolipoprotein A-I	Complement C4	IgA	Soluble Transferrin Receptor (sTfR)
Apolipoprotein A-II	CRP	IgE	Transferrin
Apolipoprotein B	Cystatin C	IgG	Transthyretin (Prealbumin)
Apolipoprotein C-II	Ferritin	IgM	
Apolipoprotein C-III	Haptoglobin	Lipoprotein (a)	
Apolipoprotein E	HbA1c Indirect	Microalbumin	

CARDIOLOGY & LIPIDS

Apolipoprotein A-I	Apolipoprotein E	Cholesterol sdLDL	Homocysteine
Apolipoprotein A-II	Cholesterol Total	CK	Lipoprotein (a)
Apolipoprotein B	Cholesterol HDL	CKMB	Myoglobin
Apolipoprotein C-II	Cholesterol LDL	CRP High Sensitivity	Triglycerides
Apolipoprotein C-III			

DIABETES

Albumin	D-3 Hydroxybutyrate (Ranbut)	HbA1c Direct	Microalbumin
Cystatin C	Fructosamine (Glycated Protein)	HbA1c II Indirect	NEFA
Creatinine	Glucose		

THERAPEUTIC DRUG MONITORING

Phenobarbital	Valproic Acid
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ANTIOXIDANTS

Albumin	G6PDH	Soluble Transferrin Receptor (sTfR)	Transferrin
Bilirubin Direct	Glutathione Peroxidase (Ransel)	Superoxide Dismutase (Ransod)	Uric Acid
Bilirubin Total	Glutathione Reductase	Total Antioxidant Status (TAS)	Zinc
Copper	Iron	Total Iron Binding Capacity (TIBC)	
Ferritin			

RAPID TESTS / SEROLOGY

G6PDH	Syphilis
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VETERINARY

Alanine Aminotransferase (ALT)	Cholesterol LDL	Glucose	Sodium
Albumin	Cholesterol Total	Glutathione Peroxidase (Ransel)	Superoxide Dismutase (Ransod)
Aldolase	Cholinesterase (Butyryl)	Glutathione Reductase	Total Antioxidant Status (TAS)
Alkaline Phosphatase	CK-NAC	Iron	Total Iron Binding Capacity (TIBC)
Ammonia	CO ₂ Total	Lactate	
Amylase	Copper	Lactate Dehydrogenase	
Aspartate Aminotransferase (AST)	Creatinine	Lipase	
Bile Acids	CRP - Canine	Magnesium	
Bilirubin Direct	D-3 Hydroxybutyrate (Ranbut)	NEFA	
Bilirubin Total	Fructosamine (Glycated Protein)	Phosphorus	
Calcium	Gamma GT	Potassium	
Cholesterol HDL	GLDH		

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LT027 FEB25