RAND®X THIRD PARTY CONTROLS





ACUSERA

TRUE THIRD PARTY CONTROLS OFFERING COMPLETE TEST MENU CONSOLIDATION



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BENEFITS

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

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



Commutability

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



Accurate Target Values

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



True Third Party Controls

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



Shelf Life

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



Consistency

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



Traceability

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



Consolidation

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



Clinically Relevant Levels

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



Reduced Waste

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



Flexible Options

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



Custom Controls

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

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

ISO REQUIREMENTS

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

Third Party Controls

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

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

Commutability

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

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

Clinically Relevant Levels

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

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

Data Management

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

Acusera 24.7 provides instant access to an unrivalled range of features including QC multi-rules, interactive charts, live peer group data, automatic calculation of Measurement Uncertainty & Sigma Metrics & our unique dashboard interface, all designed to speed up the review process and provide at-a-glance performance assessment.

EOA

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

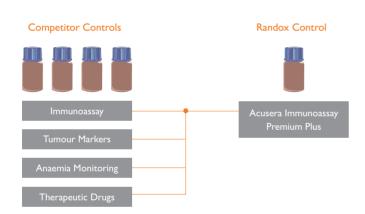
The Randox International Quality Assessment Scheme (RIQAS), is used by more than 45,000 laboratory participants in 133 countries and accredited to ISO 17043. As a result, we have RIQAS users on every continent who are registered for one or more of our 33 flexible EQA programmes, utilising the available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

Consolidate and Save with Randox Acusera

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

How can consolidating with Randox Acusera benefit you?

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

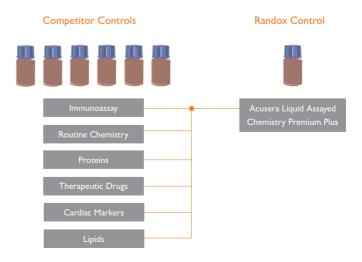


Immunoassay Premium Plus Control

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

Liquid Assayed Chemistry Premium Plus Control

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



COMMITMENT TO QUALITY

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

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



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

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

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.



ISO I 3485:2016 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.



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

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

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

Canadian

Medical Device

Regulations from

Health Canada

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

ANTIOXIDANT CONTROLS

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

ANTIOXIDANTS

Antioxidant Product Range			
Product Description	Size	Cat. No.	Page No.
Glutathione Reductase Control	10 x 5 ml	GR2608	08
Glutathione Reductase Calibrator	10 x 5 ml	GR2609	08
Glutathione Peroxidase (Ransel) Control	I0 x I ml	SC692	08
Glutathione Peroxidase (Ransel) Calibrator	I0 x I ml	SC10154	08
Superoxide Dismutase (Ransod) Control	I0 x I ml	SD126	08
Total Antioxidant Status (TAS) Control	10 x 5 ml	NX2331	08
Total Antioxidant Status (TAS) Calibrator	10 x 1 ml	NX2615	08











Glutathione Reductase Control and Calibrator 👢 🎯



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

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

Description	Size	Cat. No.
Glutathione Reductase Control	$10 \times 5 \text{ ml}$	GR2608
Glutathione Reductase Calibrator	$10 \times 5 \text{ ml}$	GR2609

Glutathione Peroxidase (Ransel) Control and Calibrator 👢 🎯





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

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

Description	Size	Cat. No.
Ransel Control	$10 \times 1 \text{ ml}$	SC692
Ransel Calibrator	$10 \times 1 \text{ ml}$	SC10154

Superoxide Dismutase (Ransod) Control 👢 🎯





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

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

Description	Size	Cat. No.
Ransod Control	$10 \times 1 \text{ ml}$	SD126

Total Antioxidant Status (TAS) Control and Calibrator 👢 🍥





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

- · 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. $10 \times 5 \text{ mJ}$ NX2331 Total Antioxidant Status Control Total Antioxidant Status Calibrator $10 \times 1 \text{ ml}$ NX2615

Calibrator

- · Lyophilised for enhanced stability
- ${}^{\bullet}$ Stable to expiry date at $2{}^{\circ}\text{C}$ to $8{}^{\circ}\text{C}$
- Reconstituted stability of 2 days at 2°C to 8°C or 28 days at -20°C

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

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











sed for enhanced stability Assayed target val

BLOOD GAS

Blood Gas Control 6



Analytes			
Bicarbonate	Glucose	pH	Sodium
Calcium	Lactate	pO ₂	
Chloride	pCO ₂	Potassium	

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

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

Description	Size	Cat. No.
Blood Gas Control Level 1	$30 \times 1.8 \text{ ml}$	BG5001
Blood Gas Control Level 2	$30 \times 1.8 \text{ ml}$	BG5002
Blood Gas Control Level 3	$30 \times 1.8 \text{ ml}$	BG5003

CARDIAC CONTROLS

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

CARDIAC

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











Liquid frozen Lyophilised for enhanced stability

Assayed target values provided



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

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

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

Description	Size	Cat. No.
Tri-Level Cardiac Control	$3 \times 1 \text{ ml}$	CQ3100
Tri-Level Cardiac Control	$3 \times 2 \text{ ml}$	CQ3259

* Only available in level 2 and level 3

Liquid BNP Controls & 🌘 🛉



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

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

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

CARDIAC

High Sensitivity Troponin T Control & © †



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

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

Description Cat. No. $3 \times 3 \text{ ml}$ High Sensitivity Troponin T Control CQ5080

CK-MB Control and Calibrator



Analytes		
CK-MB	CK-NAC*	

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

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

Cat. No. Description Size CK-MB Control $10 \times 2 \text{ ml}$ CK1212 CK-MB Calibrator $10 \times 1 \text{ ml}$ CK2393

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

Myoglobin Calibrator Series 👢 🎯





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

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

Description Size Cat. No. $4 \times 1 \text{ ml}$ MY2456 Myoglobin Calibrator Series

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



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

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

Description	Size	Cat. No.
H-FABP Control Level 1	$3 \times 1 \text{ ml}$	FB4026
H-FABP Control Level 2	$3 \times 1 \text{ ml}$	FB4027
H-FABP Calibrator Series	$6 \times 1 \text{ ml}$	FB3134

sPLA₂-IIA Control and Calibrator





The Acusera sPLA3-IIA control is designed for use in the routine monitoring of both accuracy and precision. This true third party control comes in a lyophilised format and is available in a convenient bi-level pack.

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

Description	Size	Cat. No.
sPLA ₂ -IIA Control Level 1 & 2	$2 \times 3 \times ImI$	PLA8382
sPLA ₂ -IIA Calibrator	6 x I ml	PLA8381

CLINICAL CHEMISTRY CONTROLS

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

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











Lyophilised for enhanced stability

Assayed target values provided

Precision Chemistry Premium Plus Control



Analytes			
Cardiac CK (Total) Myoglobin Troponin I Drugs Carbamazepine Digoxin Gentamicin Lithium Paracetamol Phenobarbitone Phenytoin Salicylate Theophylline Tobramycin Valproic Acid Vancomycin Immunoassay α-Fetoprotein (AFP) CEA Cortisol Folate hCG	Prolactin PSA (Total) T3 (Free) T3 (Total) T4 (Free) T4 (Total) T5H Vitamin B ₁₂ Lipids Apolipoprotein A-I Apolipoprotein B Cholesterol (HDL) Cholesterol (HDL) Cholesterol (Total) NEFA Triglycerides Proteins α-I-Acid Glycoprotein α-I-Antitrypsin Ceruloplasmin Complement C3 Complement C4 CRP	Ferritin Haptoglobin Immunoglobulin A (IgA) Immunoglobulin E (IgF) Immunoglobulin G (IgG) Immunoglobulin M (IgM) Prealbumin Protein (Total) Transferrin Routine Chemistry α-HBDH Acid Phosphatase (Prostatic) Acid Phosphatase (Total) Albumin Alkaline Phosphatase (ALP) ALT (GPT) Amylase Amylase (Pancreatic) AST (GOT) Bicarbonate Bile Acids Bilirubin (Direct) Bilirubin (Total) Calcium	Chloride Cholinesterase Creatinine D-3-Hydroxybutyrate γGT GLDH Glucose Iron Iron (TIBC) Iron (UIBC) Lactate Lactate Dehydrogenase (LDH) LAP Lipase Magnesium Osmolality Phosphate (Inorganic) Potassium Sodium Urea Uric Acid (Urate) Trace Metals Copper Zinc

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

- · Lyophilised for enhanced stability
- Human based serum
- Stable to expiry date at 2°C to 8°C
- \bullet 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	$20 \times 5 \text{ ml}$	UN1557
Precision Chemistry Premium Plus Level 3	$20 \times 5 \text{ ml}$	UE1558

Liquid Chemistry Premium Plus Control



Analytes			
G 15		B	Dil A . I
Cardiac	Immunoassay	Proteins	Bile Acids
CK (Total)	α-Fetoprotein (AFP)	α-I-Acid Glycoprotein	Bilirubin (Direct)
Myoglobin	CEA	α-I-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	Growth Hormone (GH)	CRP	D-3-Hydroxybutyrate
Carbamazepine	hCG	Ferritin	γGT
Digoxin	Luteinising Hormone (LH)	Haptoglobin	GLDH
Ethanol	Progesterone	Immunoglobulin A (IgA)	Glucose
Gentamicin	Prolactin	Immunoglobulin E (IgE)	Iron
Lithium	Testosterone	Immunoglobulin G (IgG)	Iron (TIBC)
Paracetamol	T Uptake	Immunoglobulin M (IgM)	Iron (UIBC)
Phenobarbitone	T3 (Free)	Prealbumin	Lactate
Phenytoin	T3 (Total)	Protein (Total)	Lactate Dehydrogenase (LDH)
Salicylate	T4 (Free)	Transferrin	LAP
Theophylline	T4 (Total)		Lipase
Valproic Acid	TSH	Routine Chemistry	Magnesium
Vancomycin	Vitamin B ₁₂	α-HBDH	Osmolality
	·-	Acid Phosphatase (Prostatic)	Phosphate (Inorganic)
Electrophoresis	Lipids	Acid Phosphatase (Total)	Potassium
α -I-Globulin	Apolipoprotein A-I	Albumin	Sodium
α-2-Globulin	Apolipoprotein B	Alkaline Phosphatase (ALP)	Urea
Albumin	Cholesterol (HDL)	ALT (GPT)	Uric Acid (Urate)
β-Globulin	Cholesterol (LDL)	Amylase	
γ-Globulin	Cholesterol (Total)	Amylase (Pancreatic)	Trace Metals
	Lipoprotein (a)	AST (GOT)	Copper
	Triglycerides	Bicarbonate	Zinc

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

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

Description	Size	Cat. No.
Liquid Chemistry Premium Plus Level 1	$12 \times 5 \text{ ml}$	LUL5069
Liquid Chemistry Premium Plus Level 2	$12 \times 5 \text{ ml}$	LUN5070
Liquid Chemistry Premium Plus Level 3	12 × 5 ml	LUE5071

Assayed Chemistry Premium Plus Control 👢 🎯



Analytes			
Cardiac CK (Total) Drugs Digoxin	PSA (Total) T3 (Total) T4 (Free) T4 (Total) TSH	Routine Chemistry α-HBDH Acid Phosphatase (Non-Prostatic) Acid Phosphatase (Prostatic) Acid Phosphatase (Total)	Glucose Iron Iron (TIBC) Lactate Lactate Dehydrogenase (LDH)
Gentamicin Lithium Paracetamol Salicylate Theophylline Tobramycin	Vitamin B ₁₂ Lipids Apolipoprotein A- I Apolipoprotein B Cholesterol (HDL) Cholesterol (Total)	Albumin Alkaline Phosphatase (ALP) ALT (GPT) Amylase Amylase (Pancreatic) AST (GOT) Bicarbonate	LAP Lipase (Colorimetric) Lipase (Turbidimetric) Magnesium Osmolality Phosphate (Inorganic) Potassium
Electrophoresis α-1-Globulin α-2-Globulin Albumin β-Globulin γ-Globulin Immunoassay Cortisol Folate	NEFA Triglycerides Proteins Immunoglobulin A (IgA) Immunoglobulin G (IgG) Immunoglobulin M (IgM) Protein (Total) Transferrin	Bile Acids Bilirubin (Direct) Bilirubin (Total) Calcium Chloride Cholinesterase Creatinine D-3-Hydroxybutyrate GLDH	Sodium Urea Uric Acid (Urate) Trace Metals Copper Zinc

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

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

Description	Size	Cat. No.
Assayed Chemistry Premium Plus Level 2	$20 \times 5 \text{ ml}$	HN1530
Assayed Chemistry Premium Plus Level 3	$20 \times 5 \text{ ml}$	HE1532
Assayed Chemistry Premium Plus Level 2 & 3	$2 \times 5 \times 5$ ml	HS2611

Liquid Assayed Chemistry Premium Plus Control 🐉 🔘



Analytes			
Cardiac	Immunoassay	Proteins	Bilirubin (Direct)
CK (Total)	α-Fetoprotein (AFP)	α-I- Acid Glycoprotein	Bilirubin (Total)
Myoglobin	CEA	α-I-Antitrypsin	Calcium
Troponin T	Cortisol	β-2-Microglobulin	Chloride
· F	DHEA Sulphate	Ceruloplasmin	Cholinesterase
Drugs	Folate	Complement C3	Creatinine
Amikacin	FSH	Complement C4	D-3-Hydroxybutyrate
Caffeine	hCG	CRP	γGŤ
Carbamazepine	Luteinising Hormone (LH)	Ferritin	ĠLDH
Digoxin	Progesterone	Haptoglobin	Glucose
Ethanol	Prolactin	Immunoglobulin A (IgA)	Iron
Gentamicin	PSA (Total)	Immunoglobulin E (IgE)	Iron (TIBC)
Lithium	T Uptake	Immunoglobulin G (IgG)	Lactate
Paracetamol	T3 (Free)	Immunoglobulin M (IgM)	Lactate Dehydrogenase (LDH)
Phenobarbitone	T3 (Total)	Prealbumin	LAP
Phenytoin	T4 (Free)	Protein (Total)	Lipase
Salicylate	T4 (Total)	Transferrin	Magnesium
Theophylline	Testosterone		Osmolality
Valproic Acid	TSH	Routine Chemistry	Phosphate (Inorganic)
Vancomycin	Vitamin B ₁₂	α-HBDH	Potassium
		Acid Phosphatase (Total)	Sodium
Electrophoresis	Lipids	Albumin	Urea
α-I-Globulin	Apolipoprotein A-I	Alkaline Phosphatase (ALP)	Uric Acid (Urate)
α-2-Globulin	Apolipoprotein B	ALT (GPT)	
Albumin	Cholesterol (HDL)	Amylase	Trace Metals
β-Globulin	Cholesterol (LDL)	Amylase (Pancreatic)	Copper
γ-Globulin	Cholesterol (Total)	AST (GOT)	Zinc
	Lipoprotein (a)	Bicarbonate	
	Triglycerides	Bile Acids	

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

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

Description	Size	Cat. No.
Liquid Assayed Chemistry Premium Plus Level I	$12 \times 5 \text{ ml}$	LAL4213
Liquid Assayed Chemistry Premium Plus Level 2	$12 \times 5 \text{ ml}$	LAN4214
Liquid Assayed Chemistry Premium Plus Level 3	$12 \times 5 \text{ ml}$	LAE4215

Bovine Chemistry Assayed Control &





Analytes				
Cardiac	Lipids	ALT (GPT)	Iron (TIBC)	
CK (Total)	Cholesterol	Amylase	Lactate	
,	NEFA	AST (GOT)	Lactate Dehydrogenase (LDH)	
Drugs	Triglycerides	Bicarbonate	Lipase	
Lithium	3,	Bile Acids	Magnesium	
	Proteins	Bilirubin (Direct)	Osmolality	
Immunoassay	Protein (Total)	Bilirubin (Total)	Phosphate (Inorganic)	
Cortisol	,	Calcium	Potassium	
PSA (Total)	Routine Chemistry	Chloride	Sodium	
T3 (Total)	α-HBDH	Creatinine	Urea	
T4 (Free)	Acid Phosphatase (Prostatic)	D-3-Hydroxybutyrate	Uric Acid (Urate)	
T4 (Total)	Acid Phosphatase (Non-Prostatic)	γGŤ	` '	
Vitamin B ₁₂	Acid Phosphatase (Total)	GLDH	Trace Metals	
12	Albumin	Glucose	Copper	
	Alkaline Phosphatase (ALP)	Iron	Zinc	

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

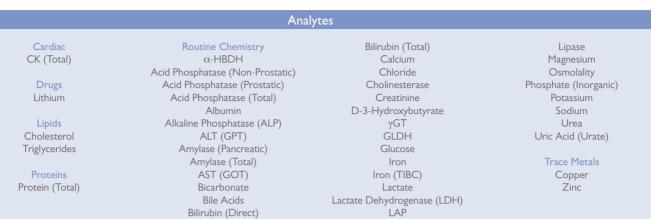
- · Lyophilised for enhanced stability
- Bovine based serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Bovine Chemistry Assayed Level I	$20 \times 5 \text{ ml}$	AL1027
Bovine Chemistry Assayed Level 2	$20 \times 5 \text{ ml}$	AN1026
Bovine Chemistry Assayed Level 3	$20 \times 5 \text{ ml}$	AE1032

Clinical Chemistry Calibration Serum 👢 🍥



Bilirubin (Direct)



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

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

Description	Size	Cat. No.
Clinical Chemistry Calibration Serum Level 2	$20 \times 5 \text{ ml}$	CAL2350
Clinical Chemistry Calibration Serum Level 3	$20 \times 5 \text{ ml}$	CAL2351

Ammonia Ethanol Control &



A	Analytes
Ammonia	Ethanol

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

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

Description	Size	Cat. No.
Ammonia Ethanol Control Level 1	$6 \times 2 \text{ ml}$	EA1366
Ammonia Ethanol Control Level 2	$6 \times 2 \text{ ml}$	EA1367
Ammonia Ethanol Control Level 3	$6 \times 2 \text{ ml}$	EA1368

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 I ml vial.

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

Description	Size	Cat. No.
Aldolase Calibrator	$3 \times 1 \text{ ml}$	AD5000
Aldolase Control Level 2	$3 \times 1 \text{ ml}$	AD5001
Aldolase Control Level 3	$3 \times 1 \text{ ml}$	AD5002

Bilirubin Elevated Serum 👢 🔘





Analy	rtes
Bilirubin (Direct)	Bilirubin (Total)

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

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

Description	Size	Cat. No.
Bilirubin Elevated Serum	$10 \times 3 \text{ ml}$	BE454

Glycerol Control 👢 🎯





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

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

Description Size Cat. No. Glycerol Control $3 \times 5 \, \text{ml}$ GY1369

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

Multi Control and Calibrator 🕻 🎯



	An	alytes	
Ammonia	Glucose	Glutamate	Lactate

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

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

Description	Size	Cat. No.	
Multi Calibrator	$3 \times 2 \text{ ml}$	MC1382	
Multi Control Level 1	$5 \times 2 \text{ ml}$	MC1379	
Multi Control Level 2	$5 \times 2 \text{ ml}$	MC1380	
Multi Control Level 3	$5 \times 2 \text{ ml}$	MC1381	

Glutamine Control and Calibrator 👢 🎯 🛉







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

Description	Size	Cat. No.	
Glutamine Control Level 1	$5 \times 5 \text{ ml}$	GM1376	
Glutamine Control Level 2	$5 \times 5 \text{ ml}$	GM1377	
Glutamine Control Level 3	$5 \times 5 \text{ ml}$	GM1378	*FOR PROTECULAR OF A NUMBER OF
Glutamine Calibrator	$3 \times 5 \text{ ml}$	GM1375	*FOR BIOTECHNOLOGY INDUSTRIAL USE. Not for use in diagnostic procedures.





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

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

Description	Size	Cat. No.
TXB Cardio Control Level 1	$3 \times 3 \text{ ml}$	TBX5125
TXB Cardio Control Level 2	$3 \times 3 \text{ ml}$	TBX5126
TXB Cardio Control Level 3	$3 \times 3 \text{ ml}$	TBX5127
TXB Cardio Calibrator Series	$3 \times 3 \text{ ml}$	TBX3132

COAGULATION AND HAEMATOLOGY CONTROLS

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

COAGULATION AND HAEMATOLOGY

Coagulation and Haematology Product Range			
Product Description	Size	Cat. No.	Page No.
Coagulation Control Level I	I2 x I ml	CG5021	29
Coagulation Control Level 2	I2 x I ml	CG5022	29
Coagulation Control Level 3	I2 x I ml	CG5023	29
Haematology Control	3 x 2 x 4.5 ml	HM5162	30





Liquid frozen







Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

COAGULATION AND HAEMATOLOGY

Coagulation Control & 🌘 🛉



Analytes			
Activated Partial Thromboplastin Time (APTT) Anti-Thrombin III (AT III)	Factor VII Factor VIII	Factor XI Factor XII	Protein C 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	$12 \times 1 \text{ ml}$	CG5021
Coagulation Control Level 2	$12 \times 1 \text{ ml}$	CG5022
Coagulation Control Level 3	$12 \times 1 \text{ ml}$	CG5023

COAGULATION AND HAEMATOLOGY

Haematology Control 🕻 🎯 🛉



Analytes

BASO-X BASO -Y Basophils (BASO)* % Basophils (% BASO) DIFF-X DIFF-Y Eosinophils (EOS) % Eosinophils (%EOS) FSC-X Haematocrit (HCT) Haemoglobin (HGB) Haematopoietic Progenitor Cell (HPC) IMIRE Immature Granulocytes (IG) % Immature Granulocytes (%IG) Immature Myeloid Information (IMI) Immature Platelet Fraction (IPF) Lymphocytes (LYMPH) % Lymphocytes (% LYMPH) Mean Corpuscular Haemoglobin (MCH) Mean Corpuscular Haemoglobin Concentration (MCHC) Mean Corpuscular Volume (MCV)

Mean Platelet Volume (MPV) Monocytes (MONO) % Monocytes (% MONO) Neutrophils (NEUT) % Neutrophils (% NEUT) Nucleated Red Blood Cells (NRBC)* Nucleated Red Blood Cells X (NRBC-X) Nucleated Red Blood Cells Y (NRBC-Y) % Nucleated Red Blood Cells (%NRBC) Platelet Distribution Width (PDW) Platelet Large Cell Ratio (P-LCR) Plateletcrit (PCT) Platelets (PLT) Platelets Optical Count (PLT-O) Red Blood Cells (RBC) Red Blood Cell X (RBC-X) Red Blood Cell Y (RBC-Y) Red Blood Cell Distribution Width CV (RDW-CV) Red Blood Cell Distribution Width SD (RDW-SD) Red Blood Cells Optical Count (RBC-O) White Blood Cells (WBC) White Blood Cells Differential (WBC-D)

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

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

Cat. No. Description Haematology Control Tri-Level $3 \times 2 \times 4.5$ 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.
HbA1c Control Set Level 1 and 2	2 x 2 x 0.5 ml	HA5072	33
HbA1c Calibrator Series	5 x 2 ml, 1 x 8 ml	HA3444	33
Liquid HbA1c Control Level 1	6 x I ml	HA10224	33
Liquid HbA1c Control Level 2	6 x I ml	HA10225	33
Liquid HbA1c Control Set	2 x 2 x 0.5 ml	HA10155	33
G-6PDH Control Deficient	6 x 0.5 ml	PD2617	33
G-6PDH Control Normal	6 x 0.5 ml	PD2618	33
Fructosamine Control Level I	3 x I ml	FR2994	34
Fructosamine Control Level 3	3 x I ml	FR2996	34
Fructosamine Calibrator	3 x I ml	FR2993	34
Haemoglobin F and A2 Control	2 x 2 x 0.2 ml	HA5083	34
Adiponectin Control Level 2	3 x I ml	AO2815	34
Adiponectin Control Level 3	3 x l ml	AO2816	34
Adiponectin Calibrator	6 x I ml	AO8156	34













Liquid ready-to-use Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

DIABETES AND WHOLE BLOOD

HbA1c Control and Calibrator Series 👢 🎯 🖠





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

Control

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

Calibrator

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

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

Liquid HbA1c Control





Delivering an assayed QC solution for HbA1c testing, our Acusera Liquid HbA1c control offers a liquid ready-to-use format ideal for both laboratory and POCT testing. Employing our Liquid HbAIc 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	$6 \times 1 \text{ ml}$	HA10224
Liquid HbA1c Control Level 2	$6 \times 1 \text{ ml}$	HA10225
Liquid HbA1c Control Set	$2 \times 2 \times 0.5$ ml	HA10155

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





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

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

Description	Size	Cat. No.
G-6-PDH Control Deficient	$6 \times 0.5 \text{ ml}$	PD2617
G-6-PDH Control Normal	$6 \times 0.5 \text{ ml}$	PD2618

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

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

Description	Size	Cat. No.
Fructosamine Control Level 1	$3 \times 1 \text{ ml}$	FR2994
Fructosamine Control Level 3	$3 \times 1 \text{ ml}$	FR2996
Fructosamine Calibrator	$3 \times 1 \text{ ml}$	FR2993

Haemoglobin F & A2 Control



Analytes

Haemoglobin A2 (HbA2) Haemoglobin F (HbF)

Haemoglobin A2 (HbA2) Haemoglobin F (HbF) Haemoglobin S (HbS)

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

- · Lyophilised for enhanced stability
- 100% human whole blood
- ${}^{\circ}$ Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 30 days at 2°C to 8°C

Cat. No. Description Size $2 \times 2 \times 0.2 \text{ ml}$ HA5083 Haemoglobin F & A2 Control

Adiponectin Control and Calibrator 🕻 🎯



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

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

Description	Size	Cat. No.
Adiponectin Control Level 2	$3 \times 1 \text{ ml}$	AO2815
Adiponectin Control Level 3	$3 \times 1 \text{ ml}$	AO2816
Adiponectin Calibrator	$6 \times 1 \text{ ml}$	AO8156

IMMUNOASSAY CONTROLS

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

IMMUNOASSAY

lmmı	unoassay Product Range		
Product Description	Size	Cat. No.	Page No.
Liquid Immunoassay Premium Level I	12 x 5 ml	LIA3105	37
Liquid Immunoassay Premium Level 2	12 x 5 ml	LIA3106	37
Liquid Immunoassay Premium Level 3	12 x 5 ml	LIA3107	37
Liquid Immunoassay Premium Tri-Level	4 x 3 x 5 ml	LIA3108	37
PTH Control Level I	3 x 3 ml	PTHI0II0	37
PTH Control Level 2	3 x 3 ml	PTHIOIII	37
PTH Control Level 3	3 x 3 ml	PTHI0II2	37
Immunoassay Premium Level I	12 x 5 ml	IA2638	38
Immunoassay Premium Level 2	12 x 5 ml	IA2639	38
Immunoassay Premium Level 3	12 x 5 ml	IA2640	38
Immunoassay Premium Tri-Level	4 x 3 x 5 ml	IA2633	38
Immunoassay Premium Plus Level I	12 x 5 ml	IA3109	39
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110	39
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111	39
Immunoassay Premium Plus Tri-Level	4 x 3 x 5 ml	IA3112	39
Immunoassay Speciality I Level I	5 x 2 ml	IAS3113	40
Immunoassay Speciality I Level 2	5 x 2 ml	IAS3114	40
Immunoassay Speciality I Level 3	5 x 2 ml	IAS3115	40
Immunoassay Speciality II Level I	5 x l ml	IAS3117	40
Immunoassay Speciality II Level 2	5 x l ml	IAS3118	40
Immunoassay Speciality II Level 3	5 x l ml	IAS3119	40
Tumour Marker Control Level 2	3 x 2 ml	TU5002	41
Tumour Marker Control Level 3	3 x 2 ml	TU5003	41
Liquid Tumour Marker Control Level I	6 x 3 ml	TU5085	41
Liquid Tumour Marker Control Level 2	6 x 3 ml	TU5086	41
Liquid Tumour Marker Control Level 3	6 x 3 ml	TU5087	41
Maternal Screening Control Level I	3 x l ml	MSS5024	42
Maternal Screening Control Level 2	3 x l ml	MSS5025	42
Maternal Screening Control Level 3	3 x I ml	MSS5026	42













Liquid ready-to-use

Liquid frozen Lyophilised for enhanced stability Assayed target values provided 100% human matrix

IMMUNOASSAY

Liquid Immunoassay Premium Control 🔯 🎯 🛊



Analytes			
17-OH-Progeste α-Fetoprotein Aldosteron Amikacin β-2-Microglob Carbamazepii CEA Cortisol DHEA-Sulpha Digoxin Estriol	AFP) Ferritin e Folate FSH llin Gentamicin e Growth Hormone (GH) hCG Immunoglobulin E (IgE)	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 Theophylline Tobramycin TSH Valproic Acid Vancomycin Vitamin B ₁₂

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

- · Liquid frozen
- 100% human serum
- Ferritin and Vitamin B₁₂ levels suitable for Anaemia monitoring
- Stable to expiry date at -20°C to -70°C
- Open vial stability of up to 7 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid Immunoassay Premium Level I	$12 \times 5 \text{ ml}$	LIA3 I 05
Liquid Immunoassay Premium Level 2	$12 \times 5 \text{ ml}$	LIA3 I 06
Liquid Immunoassay Premium Level 3	$12 \times 5 \text{ ml}$	LIA3 I 07
Liquid Immunoassay Premium Tri-Level	$4 \times 3 \times 5$ ml	LIA3 I 08





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

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

Description	Size	Cat. No.
PTH Control Level 1	$3 \times 3 \text{ ml}$	PTH10110
PTH Control Level 2	$3 \times 3 \text{ ml}$	PTHIOIII
PTH Control Level 3	$3 \times 3 \text{ ml}$	PTHI0112

Immunoassay Premium Control 👢 🎯 🛊



Analytes			
17-OH-Progesterone	DHEA-Sulphate	Oestradiol	T3 (Total)
I-25-(OH) ₂ -Vitamin D	Digoxin	Paracetamol	T4 (Free)
25-OH-Vitamin D	Estriol	Phenobarbitone	T4 (Total)
α-Fetoprotein (AFP)	Ethosuximide	Phenytoin	Testosterone
ACTH ⁺	Ferritin	Primidone	Testosterone (Free)
Aldosterone ⁺	Folate	Progesterone	Theophylline
Amikacin	FSH	Prolactin	Thyroglobulin
Androstenedione	Gentamicin	PSA (Free)	Tobramycin
β-2-Microglobulin	Growth Hormone (GH)	PSA (Total)	TSH
C-Peptide	hCG	Salicylate	Valproic Acid
Carbamazepine	Immunoglobulin E (IgE)	Sex Hormone Binding Globulin (SHBG)	Vancomycin
CEA .	Insulin	T Uptake	Vitamin B ₁₂
Cortisol	Luteinising Hormone (LH)	T3 (Free)	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 I 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 I	$12 \times 5 \text{ ml}$	IA2638
Immunoassay Premium Level 2	$12 \times 5 \text{ ml}$	IA2639
Immunoassay Premium Level 3	$12 \times 5 \text{ ml}$	IA2640
Immunoassay Premium Tri-level	$4 \times 3 \times 5 \text{ ml}$	IA2633

*Values may not be provided for all levels

IMMUNOASSAY

Immunoassay Premium Plus Control 👢 🎯 🛊



Analytes Analytes			
17-0H-Progesterone	CEA	Luteinising Hormone (LH)	T3 (Total)
I-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	12
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 B₁, 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 I 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 I	$12 \times 5 \text{ ml}$	IA3109
Immunoassay Premium Plus Level 2	$12 \times 5 \text{ ml}$	IA3110
Immunoassay Premium Plus Level 3	$12 \times 5 \text{ ml}$	IA3111
Immunoassay Premium Plus Tri-level	$4 \times 3 \times 5$ ml	IA3112

*Values may not be provided for all levels

Immunoassay Speciality I Control & 🌘 🛊



I-25-(OH)₂-Vitamin D 25-OH-Vitamin D Anti-Thyroglobulin (Anti-TG) Anti-Thyroperoxidase (Anti-TPO) C-Peptide Insulin

Insulin Like Growth Factor-I (IGF-I) Intact 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

Description	Size	Cat. No.
Immunoassay Speciality I Level 1	$5 \times 2 \text{ ml}$	IAS3113
Immunoassay Speciality I Level 2	$5 \times 2 \text{ ml}$	IAS3114
Immunoassay Speciality I Level 3	$5 \times 2 \text{ ml}$	IAS3115

Immunoassay Speciality II Control 👢 🎯 🛊





	Ar	nalytes	
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, I 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 I	$5 \times 1 \text{ ml}$	IAS3117
Immunoassay Speciality II Level 2	$5 \times 1 \text{ ml}$	IAS3 8
Immunoassay Speciality II Level 3	$5 \times 1 \text{ ml}$	IAS3119

IMMUNOASSAY

Tumour Marker Control & 🌘 🛊



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

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	$3 \times 2 \text{ ml}$	TU5002
Tumour Marker Control Level 3	$3 \times 2 \text{ ml}$	TU5003

Liquid Tumour Marker Control





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

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

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

Description	Size	Cat. No.
Liquid Tumour Marker Control Level 1	$6 \times 3 \text{ ml}$	TU5085
Liquid Tumour Marker Control Level 2	$6 \times 3 \text{ ml}$	TU5086
Liquid Tumour Marker Control Level 3	$6 \times 3 \text{ ml}$	TU5087

IMMUNOASSAY

Maternal Screening Control & © †



	An	alytes	
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 Screening Control Level 1	$3 \times 1 \text{ ml}$	MSS5024
Maternal Screening Control Level 2	$3 \times 1 \text{ ml}$	MSS5025
Maternal Screening Control Level 3	$3 \times 1 \text{ ml}$	MSS5026

IMMUNOLOGY/ PROTEIN CONTROLS

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

	ology/Protein Product Range		
Product Description	Size	Cat. No.	Page No.
Specific Protein Control Level I	3 x l ml	PS2682	45
Specific Protein Control Level 2	3 x I ml	PS2683	45
Specific Protein Control Level 3	3 x I ml	PS2684	45
Specific Protein Control Level I	6 x 3 ml	PS10221	45
Specific Protein Control Level 2	6 x 3 ml	PS10222	45
Specific Protein Control Level 3	6 x 3 ml	PS10223	45
Specific Protein Calibrator (Liquid)	5 x I ml	IT2691	45
Specific Protein Calibrator (Liquid)	5 x I ml	IT2692	46
Liquid CRP Control Level 2	10 x 1 ml	CP2480	46
Liquid CRP Control Level 3	10 x 1 ml	CP2481	46
High Sensitivity CRP Control Level I	10 x 1 ml	CP2476	46
High Sensitivity CRP Control Level 2	I0 x I ml	CP2477	46
CRP Calibrator	3 x l ml	CP2179	46
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478	46
CRP Calibrator Series	6 x 2 ml	CP2479	46
CRP Full Range Calibrator	6 x I ml	CP2499	46
Canine CRP Control Level 2	3 x I ml	CP2803	46
Canine CRP Control Level 3	3 x I ml	CP2804	46
CSF Control Level 2	10 x 3 ml	CF1500	47
CSF Control Level 3	10 x 3 ml	CF1501	47
Liquid CSF Control Level 1	10 x 3 ml	CF10138	47
Liquid CSF Control Level 2	10 x 3 ml	CF10139	47
ASO Standard	5 x I ml	LO2306	47
β-2-Microglobulin Calibrator	3 x I ml	BM1362	48
Cystatin C Control Level 2	3 x 2 ml	CYS5019	48
Cystatin C Control Level 3	3 x 2 ml	CYS5020	48
Cystatin C Calibrator	5 x 2 ml	CYS2699	48
Immunoglobulin Liquid Protein Calibrator	3 x I ml	IT3861	48
lgE Calibrator Series	6 x I ml	IE2492	49
High Sensitivity IgG Calibrator	3 x I ml	IT3899	49
Rheumatoid Factor Calibrator Series	5 x I ml	RF2301	49
sTfR Control Level 1 & 2	3 x 2 x I ml	TF10162	49
sTfR Calibrator	6 x l ml	TF10161	49











Liquid frozen Lyophilised for enhanced stability Assayed target values provided 100% human matrix

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 α -I-Acid Glycoprotein α-I-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 Lambda Light Chain (Free)+

Prealbumin Protein (Total) Retinol Binding Protein (RBP) Rheumatoid Factor (RF) Transferrin

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

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

Description	Size	Cat. No.
Specific Protein Control Level 1	$3 \times 1 \text{ ml}$	PS2682
Specific Protein Control Level 2	$3 \times 1 \text{ ml}$	PS2683
Specific Protein Control Level 3	$3 \times 1 \text{ ml}$	PS2684
Specific Protein Control Level 1	$6 \times 3 \text{ ml}$	PS10221
Specific Protein Control Level 2	$6 \times 3 \text{ ml}$	PS10222
Specific Protein Control Level 3	6 x 3 ml	PS10223

*Not for use in USA.





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

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

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

Description	Size	Cat. No
Specific Protein Calibrator (Liquid)	$5 \times 1 \text{ ml}$	IT2691

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

Specific Protein Calibrator - Requires pre-dilution



		ytes	
α -I-Acid Glycoprotein α -I-Antitrypsin	Immunoglobulin A (IgA)	Immunoglobulin G (IgG)	Immunoglobulin M (IgM)

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

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

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

CRP Controls and Calibrator



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

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

Description	Size	Cat. No.
Liquid CRP Control Level 2	$10 \times 1 \text{ ml}$	CP2480
Liquid CRP Control Level 3	$10 \times 1 \text{ ml}$	CP2481
High Sensitivity CRP Control Level 1	$10 \times 1 \text{ ml}$	CP2476
High Sensitivity CRP Control Level 2	$10 \times 1 \text{ ml}$	CP2477
CRP Calibrator	$3 \times 1 \text{ ml}$	CP2179
High Sensitivity CRP Calibrator Series	$6 \times 2 \text{ ml}$	CP2478
CRP Calibrator Series	$6 \times 2 \text{ ml}$	CP2479
CRP Full Range Calibrator	6 × I ml	CP2499

Canine CRP Control 6 0



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	$3 \times 1 \text{ ml}$	CP2803
Canine CRP Control Level 3	$3 \times 1 \text{ ml}$	CP2804

CSF Control &



α-I-Globulin (Electrophoresis) α -2-Globulin (Electrophoresis) Albumin (Electrophoresis)

β-Globulin (Electrophoresis) Chloride γ-Globulin (Electrophoresis)

Glucose Immunoglobulin G (IgG) Lactate

Protein (Total) Sodium

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	$10 \times 3 \text{ ml}$	CF1500
CSF Control Level 3	$10 \times 3 \text{ ml}$	CF1501

Liquid CSF Control 6



α-I-Globulin (Electrophoresis) α -2-Globulin (Electrophoresis) Albumin (Electrophoresis) β-Globulin (Electrophoresis)

Chloride γ-Globulin (Electrophoresis) Glucose High Sensitivity Immunoglobulin A (hslgA)*

High Sensitivity Immunoglobulin G (hslgG) High Sensitivity Immunoglobulin M (hslgM)* Lactate Microalbumin

Protein (Total) Sodium

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	$10 \times 3 \text{ ml}$	CF10138	
Liquid CSF Control Level 2	$10 \times 3 \text{ ml}$	CF10139	*No claims are made regarding values or stability.

ASO Standard 🖟 🎯 🛉





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

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

Cat. No. Description ASO Standard $5 \times 1 \text{ ml}$ 102306

β -2-Microglobulin Calibrator $\begin{tabular}{l} \& \end{tabular}$





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

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

Description	Size	Cat. No.
β-2-Microglobulin Calibrator	$3 \times 1 \text{ ml}$	BM1362

Cystatin C Control and Calibrator





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

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

Description	Size	Cat. No.
Cystatin C Control Level 2	$3 \times 2 \text{ ml}$	CYS5019
Cystatin C Control Level 3	$3 \times 2 \text{ ml}$	CYS5020
Cystatin C Calibrator	$5 \times 2 \text{ ml}$	CYS2699

Immunoglobulin Liquid Protein Calibrator







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

Cat. No. Immunoglobulin Liquid Protein Calibrator $3 \times 1 \text{ ml}$ IT3861

IgE Calibrator 👢 🍥





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

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

Description 6 x I ml IF2492 IgE Calibrator Series

High Sensitivity IgG Calibrator





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

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

High Sensitivity IgG Calibrator $3 \times 1 \text{ ml}$ IT3899

Rheumatoid Factor Calibrator Series 🖟 🔘 🛊







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

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

Size Cat. No. Rheumatoid Factor Calibrator Series $5 \times 1 \text{ ml}$ RF2301

Soluble Transferrin Receptor (sTfR) Control and Calibrator Series 👢 🔘 🖠







- · 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

TF10162 sTfR Control Level | & 2 $3 \times 2 \times 1 \text{ ml}$ sTfR Calibrator $6 \times 1 \text{ ml}$ TF10161

INFECTIOUS DISEASE CONTROLS (SEROLOGY)

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

INFECTIOUS DIEASE (SEROLOGY)

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











INFECTIOUS DIEASE (SEROLOGY)

Lyme Disease (Borrelia burgdorferi) Control



Analytes

Borrelia burgdorferi IgG

Borrelia burgdorferi IgM

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

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

Description	Size	Cat. No.
Lyme Disease Negative Control	$1 \times 5 \text{ ml}$	SR10345
Lyme Disease Positive Control	$1 \times 5 \text{ ml}$	SR10346

ToRCH Controls I



Analytes

ToRCH Negative Cytomegalovirus (CMV) IgG

Cytomegalovirus (CMV) IgM Epstein Barr Virus (EBV) EBNA IgG Epstein Barr Virus (EBV) VCA IgG Epstein Barr Virus (EBV) IgM Helicobacter pylori IgG Herpes Simplex Virus I (HSV-I) IgG Herpes Simplex Virus I (HSV-I) IgM Herpes Simplex Virus 2 (HSV-2) IgG Herpes Simplex Virus 2 (HSV-2) IgM

Measles IgG Mumps IgG Rubella IgG Rubella IgM Toxoplasma gondii IgG Toxoplasma gondii IgM Treponema pallidum (Syphilis) IgG Varicella Zoster Virus (VZV) IgG

ToRCH IgG Positive Cytomegalovirus (CMV) IgG

Helicobacter pylori lgG Herpes Simplex Virus I (HSV-I) IgG Herpes Simplex Virus 2 (HSV-2) IgG Measles IgG Mumps IgG Rubella IgG

Toxoplasma gondii IgG Treponema pallidum (Syphilis) IgG Varicella Zoster Virus (VZV) IgG

ToRCH IgM Positive

Cytomegalovirus (CMV) IgM Herpes Simplex Virus I (HSV-I) IgM Herpes Simplex Virus 2 (HSV-2) IgM Rubella IgM Toxoplasma gondii 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 plasma and is suitable for use with most immunoassay analysers. The availability of liquid ready-to-use samples helps to reduce preparation time and the potential for human error.

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

Description	Size	Cat. No.
ToRCH Negative Control	$6 \times 5 \text{ ml}$	SR10347
ToRCH IgG Positive Control	$3 \times 5 \text{ ml}$	SR10348
ToRCH IgM Positive Control	$3 \times 5 \text{ ml}$	SR10349

INFECTIOUS DIEASE (SEROLOGY)

Epstein Barr Virus (EBV) Control



Analytes

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

Epstein Barr Virus (EBV) IgM

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

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

Description	Size	Cat. No.
EBV Positive Control	$1 \times 5 \text{ ml}$	SR10350

Serology Controls



Analytes				
Serology Negative Anti-HAV Anti-HBc	HbeAg HBsAg HIV P24Ag	HBsAg Treponema pallidum (Syphilis) IgG	Serology III Positive HAV IgM HBc IgM	
Anti-Hbe Anti-HBs Anti-HCV	Treponema pallidum (Syphilis) IgG Serology I Positive	Serology II Positive Anti-HAV Anti-HBc	HBeAg HIV P24Ag	
Anti-HIV I / 2 Anti-HTLV I / 2	Anti-HBc Anti-HCV	Anti-Hbe Anti-HBs		
HAV IgM HBc IgM	Anti-HIV I / 2 Anti-HTLV I / 2	7 and 1 103		

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

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

Description	Size	Cat. No.
Serology Negative Control	$6 \times 5 \text{ ml}$	SR10351
Serology I Positive Control	$3 \times 5 \text{ ml}$	SR10352
Serology II Positive Control	$3 \times 5 \text{ ml}$	SR10353
Serology III Positive Control	$3 \times 5 \text{ ml}$	SR10354

LIPID CONTROLS

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

LIPIDS

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











Lyophilised for enhanced stability

Assayed target values provided

Lipid Control 👢 🎯 🛉



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

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

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

Description	Size	Cat. No
Lipid Control Level 1	$5 \times 1 \text{ ml}$	LE2668
Lipid Control Level 2	$5 \times 1 \text{ ml}$	LE2669
Lipid Control Level 3	$5 \times 1 \text{ ml}$	LE2670
Lipid Control Level 1	$5 \times 3 \text{ ml}$	LE2661
Lipid Control Level 2	$5 \times 3 \text{ ml}$	LE2662
Lipid Control Level 3	$5 \times 3 \text{ ml}$	LE2663

Liquid Lipid Control 🐉 🎯 🛉



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

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

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

Description	Size	Cat. No.
Liquid Lipid Control Level I	$5 \times 3 \text{ ml}$	LE10174
Liquid Lipid Control Level 2	$5 \times 3 \text{ ml}$	LE10175
Liquid Lipid Control Level 3	$5 \times 3 \text{ ml}$	LE10176

LIPIDS

Direct LDL/HDL Cholesterol Calibrator &



Analytes

Cholesterol (HDL)

Cholesterol (LDL)

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

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

Description Size Cat. No. CH2673 Direct LDL/HDL Cholesterol Calibrator (Clearance) $3 \times 1 \text{ ml}$

Apolipoprotein Control and Calibrators &





Analytes

Apolipoprotein Control

Apolipoprotein A-II Apolipoprotein C-II Apolipoprotein C-III Apolipoprotein E

Apolipoprotein Calibrator

Apolipoprotein A-I Apolipoprotein B

Apolipoprotein Calibrator 2

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 up to 28 days at 2°C to 8°C for Apolipoprotein A-II and Apolipoprotein C-III, 14 days for Apolipoprotein C-II and 8 hours for Apolipoprotein E
- Calibrator reconstituted stability of 7 days at 2°C to 8°C for Apolipoprotein control A-I, B, A-II, C-II and C-III, I day for Apolipoprotein E

Description	Size	Cat. No.
Apolipoprotein Control Level I	$3 \times 1 \text{ ml}$	LE5016
Apolipoprotein Control Level 2	$3 \times 1 \text{ ml}$	LE5017
Apolipoprotein Control Level 3	$3 \times 1 \text{ ml}$	LE5018
Apolipoprotein Calibrator	$3 \times 1 \text{ ml}$	LP3023
Apolipoprotein Calibrator 2	$3 \times 1 \text{ ml}$	LP5047

Lipoprotein (a) Control and Calibrator



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

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

Description	Size	Cat. No
Lipoprotein (a) Control Level 3	$3 \times 1 \text{ ml}$	LP3406
Lipoprotein (a) Calibrator Series	$5 \times 1 \text{ ml}$	LP3404

sLDL Control and Calibrator 👢 🎯 🛉



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

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

Description	Size	Cat. No.
sLDL Control Level 1	$3 \times 1 \text{ ml}$	LE5013
sLDL Control Level 2	$3 \times 1 \text{ ml}$	LE5014
sLDL Control Level 3	$3 \times 1 \text{ ml}$	LE5015
sLDL Calibrator	$3 \times 1 \text{ ml}$	CH5050

HDL-3 Control and Calibrator







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

Description	Size	Cat. No.	
HDL-3 Control Level 2	$3 \times 1 \text{ ml}$	CH10169	
HDL-3 Control Level 3	$3 \times 1 \text{ ml}$	CH10170	
HDL-3 Calibrator*	$5 \times 1 \text{ ml}$	CH10164	

*Calibrator stable for one day only

SPECIALITY AND RESEARCH CONTROLS

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

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











Lyophilised for enhanced stability

Assayed target values provided

Antimicrobial Control II



	Analy	/tes	
Ceftiofur Quinolones (Generic)	Streptomycin Tetracyclines (Generic)	Thiamphenicol	Tylosin

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

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

Size Cat. No. $3 \times 1 \text{ ml}$ AMC5035 Antimicrobial Control II

Antimicrobial Control III &





	A	nalytes	
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. $3 \times 1 \text{ ml}$ AMC5036 Antimicrobial Control III

Growth Promoter Control &





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

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

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

Description Cat. No. Growth Promoter Control $3 \times 1 \text{ ml}$ GP5003

Adhesion Molecules Control and Calibrator & 🌡 🎯 🛉



Analytes

E-Selectin (E-SEL) Intercellular Adhesion Molecule-I (ICAM-I) L-Selectin (L-SEL)

P-Selectin (P-SEL) Vascular Cell Adhesion Molecule-1 (VCAM-1)

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

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

Description	Size	Cat. No.
Adhesion Molecules Tri-Level Control	$3 \times 3 \times 1 \text{ ml}$	EV3569
Adhesion Molecules Calibrator Series	$9 \times 1 \text{ ml}$	EV3568

Cerebral Array II Control 👢 🎯 🛊



Analytes

D-dimer Neuron Specific Enolase (NSE)

Neutrophil Gelatinase-associated Lipocalin (NGAL) Soluble Tumour Necrosis Factor Receptor I (sTNFRI) Thrombomodulin (TM)

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

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

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

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



Analytes

Epidermal Growth Factor (EGF) Interferon g (IFNg) Interleukin- $I\alpha$ (IL- $I\alpha$) Interleukin-Iβ (IL-Iβ) Interleukin-2 (IL-2) Interleukin-4 (IL-4)

Interleukin-6 (IL-6) Interleukin-8 (IL-8) Interleukin-10 (IL-10) Monocyte Chemoattractant Protein-I (MCP-I) 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
- 100% human recombinant material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 10-12 hours at 2°C to 8°C or 14 days at -20°C
- High sensitivity Reconstituted stability of 4 hours at 2°C to 8°C or 7 days at -20°C

Description	Size	Cat. No.
Cytokine Array I Tri-Level Control	$3 \times 3 \times 1 \text{ ml}$	CY5006
High Sensitivity Cytokine Array I Tri-Level Control	$3 \times 3 \times 2 \text{ ml}$	CY5005
Cytokine Array Calibrator Series	$9 \times 1 \text{ ml}$	EV3561

Cytokine Array III Control & 🌘 🛊





Analytes

GM-CSF Interleukin-5 (IL-5)

Interleukin-15 (IL-15) Macrophage Inflammatory Protein-I α (MIP-I 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
- 100% human material
- \bullet Stable to expiry date at 2°C to 8°C
- \bullet Reconstituted stability of 24 hours at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Cytokine Array III Tri-Level Control	$3 \times 3 \times 1 \text{ ml}$	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
- 100% human material
- \bullet Stable to expiry date at 2°C to 8°C
- \bullet Reconstituted stability of 7 days at 2°C to 8°C or 28 days at -20°C

Description Size Cat. No. Cytokine Array IV Tri-Level Control $3 \times 3 \times 1 \text{ ml}$ CY5011

Evidence Immunoassay Control & 🌘 🛉



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

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

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

Size Cat. No. Description EV3570 $4 \times 3 \times 5 \text{ ml}$ Evidence Immunoassay Control

Synthetic Steroids Control and Calibrator 👢 🎯



	Analy	rtes	
I7β-Clostebol Ethinylestradiol	Gestagens (Generic)	Methandriol	Methyltestosterone

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

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

Description	Size	Cat. No.
Synthetic Steroids Control	$3 \times 1 \text{ ml}$	EV3709
Synthetic Steroids Calibrator	$9 \times 1 \text{ ml}$	EV3708

Metabolic Syndrome Array I Control and Calibrator





Analytes C-Peptide Interleukin- $I\alpha$ (IL- $I\alpha$) Plasminogen Activator Inhibitor-I Tumour Necrosis Factor α (TNF α) Ferritin Interleukin-6 (IL-6) Resistin Insulin Leptin

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

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

Description	Size	Cat. No.
Metabolic Syndrome Array I Control	$3 \times 3 \times 1 \text{ ml}$	EV3757
Metabolic Syndrome Array I Calibrator	$9 \times 1 \text{ ml}$	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
- 100% human material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 8 hours at 2°C to 8°C and 28 days at -20°C

Description	Size	Cat. No.
Metabolic Syndrome Array II Control	$3 \times 3 \times 1 \text{ ml}$	EV3761
Metabolic Syndrome Array II Calibrator	$9 \times 1 \text{ ml}$	EV3760

Thyroid Total Calibrator 👢 🎯 🛊



Analytes		
T3 (Total) T4 (Total)	TSH	

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

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

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

Thyroid Free Calibrator 👢 🎯 🛊





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

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

Cat. No. Description Size $9 \times 1 \text{ ml}$ EV3563 Thyroid Free Calibrator Series

THERAPEUTIC DRUG CONTROLS

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

THERAPEUTIC DRUG

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











THERAPEUTIC DRUG

Therapeutic Drug Control & 🌘 🛊





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

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

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

Description	Size	Cat. No.
Therapeutic Drug Control Level 1	$20 \times 5 \text{ ml}$	HD1667
Therapeutic Drug Control Level 2	$20 \times 5 \text{ ml}$	HD1668
Therapeutic Drug Control Level 3	$20 \times 5 \text{ ml}$	HD1669

Therapeutic Drug Calibrator 👢 🎯 🛊





Analytes				
Carbamazepine Digoxin	Gentamicin Phenobarbitone	Phenytoin	Valproic Acid	

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

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

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

TOXICOLOGY CONTROLS

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

TOXICOLOGY

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











Liquid ready-to-use Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

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

Cat. No. Description $4 \times 10 \text{ ml}$ DA2703 Ethanol Calibrator/Control Set

Drugs of Abuse Array I Plus Controls and Calibrators 👢 🎯



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

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

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

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

Drugs of Abuse Array II Controls and Calibrators 👢 🎯



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

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

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

Description	Size	Cat. No.
Drugs of Abuse Array II (Urine) Controls	$4 \times 2 \times 1 \text{ ml}$	EV3657
Drugs of Abuse Array II (Whole Blood) Controls	$4 \times 2 \times 1 \text{ ml}$	EV3682
Drugs of Abuse Array II (Urine) Calibrator Series	$9 \times 1 \text{ ml}$	EV3656
Drugs of Abuse Array II (Whole Blood) Calibrator Series	$9 \times 1 \text{ ml}$	EV3687

TOXICOLOGY

Drugs of Abuse Array III Controls and Calibrators 👢 🍥



Analytes

7-amino Flunitrazepam Chloral Hydrate Metabolite Creatinine

Ethyl Glucuronide Fentanyl Ketamine

Meperidine Meprobamate Zaleplon

Zolpidem Zopiclone

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

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

Description	Size	Cat. No.
Drugs of Abuse Array III (Urine) Control	$4 \times 2 \times 1 \text{ ml}$	EV3830
Drugs of Abuse Array III (Urine) Calibrator Series	$9 \times 1 \text{ ml}$	EV3829
Drugs of Abuse Array III (Whole Blood) Control	$4 \times 2 \times 1 \text{ ml}$	EV3794
Drugs of Abuse Array III (Whole Blood) Calibrator Series	$9 \times 1 \text{ ml}$	EV3797

Drugs of Abuse Array IV Controls and Calibrators 👢 🔘





Haloperidol Creatinine Dextromethorphan Ibuprofen Escitalopram Methylphenidate Fluoxetine Paracetamol

Salicylate Salicyluric Acid Sertraline Tramadol

Trazodone Tricyclic Antidepressants

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

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

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

Drugs of Abuse Array V Controls and Calibrators &



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

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

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

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

Cannabinoid Control and Calibrator 🕻 🎯 🛉



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

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

Description	Size	Cat. No.
Cannabinoid Calibrator Set	$5 \times 3 \text{ ml}$	DA2700
Cannabinoid Control Level 1	$5 \times 3 \text{ ml}$	DA3127
Cannabinoid Control Level 2	$5 \times 3 \text{ ml}$	DA3128

Ecstasy Control and Calibrator



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

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

Description	Size	Cat. No.
Ecstasy Calibrator Set	$5 \times 10 \text{ ml}$	DA2701
Ecstasy Control Level 1	$5 \times 5 \text{ ml}$	DA3125
Ecstasy Control Level 2	5 × 5 ml	DA3126

TOXICOLOGY

EDDP Control and Calibrator



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

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

Description	Size	Cat. No.
EDDP Calibrator Set	$5 \times 10 \text{ ml}$	DA2702
EDDP Control Level 1	$5 \times 5 \text{ ml}$	DA3123
EDDP Control Level 2	$5 \times 5 \text{ ml}$	DA3124

Multidrug Control &



	Ana	llytes	
Benzoylecgonine (Cocaine) Methadone	Methamphetamine	Morphine (Opiates)	Secobarbital

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

- Liquid ready-to-use
- Human urine
- \bullet 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

Size	Cat. No.
$5 \times 5 \text{ ml}$	DA3121
$5 \times 5 \text{ ml}$	DA3122
$5 \times 10 \text{ ml}$	DA2704
	$5 \times 5 \text{ ml}$ $5 \times 5 \text{ ml}$

Benzodiazepines Control and Calibrator



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

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

Description	Size	Cat. No.
Benzodiazepines Control Level I	$5 \times 5 \text{ ml}$	DA3130
Benzodiazepines Control Level 2	$5 \times 5 \text{ ml}$	DA3131
Benzodiazepines Calibrator Set	$5 \times 10 \text{ ml}$	DA3129

URINE CONTROLS

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

URINE

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











Liquid frozen Lyophilised for enhanced stability

Assayed target values provided 100% human matrix

Assayed Urine Control & 🌘 🛊



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

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

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

Description	Size	Cat. No.
Assayed Urine Control Level 2	$12 \times 10 \text{ ml}$	AU2352
Assayed Urine Control Level 3	$12 \times 10 \text{ ml}$	AU2353

Liquid Urine Control 6 0 †







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

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

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

Description	Size	Cat. No.
Liquid Urine Control Level 2	$10 \times 10 \text{ ml}$	UC5074
Liquid Urine Control Level 3	$10 \times 10 \text{ ml}$	UC5075

URINE

Urinalysis Control 🕻 🎯 🛉



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

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

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

Description	Size	Cat. No.
Urinalysis Control Level 1	$12 \times 12 \text{ml}$	UC5033
Urinalysis Control Level 2	12 × 12 ml	UC5034

Low Level hCG Control &



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

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

Cat. No. Description Size Low Level hCG Control $3 \times 1 \text{ ml}$ PF10333





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

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

Description	Size	Cat. No.
Microalbumin Control Level 8 2	6 x I ml	MA1361
Microalbumin Calibrator Series	$6 \times 2 \text{ ml}$	MA1567

ACCESSORIES

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

ACCESSORIES

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











ACCESSORIES

Serum Diluent



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

Description Size Cat. No. $20 \times 5 \text{ ml}$ Serum Diluent MS5007

CUSTOMISED QUALITY CONTROL SERA

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

CUSTOMISED QUALITY CONTROL SERA

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

Our principal control products are:

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

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

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

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

Consolidation

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

Tailor Made

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

Stability

Randox lyophilised controls are **stable for up to 4 years, reducing costly lot changes** and enabling use of the same lot over an extended period

Options

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

Flexibility

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

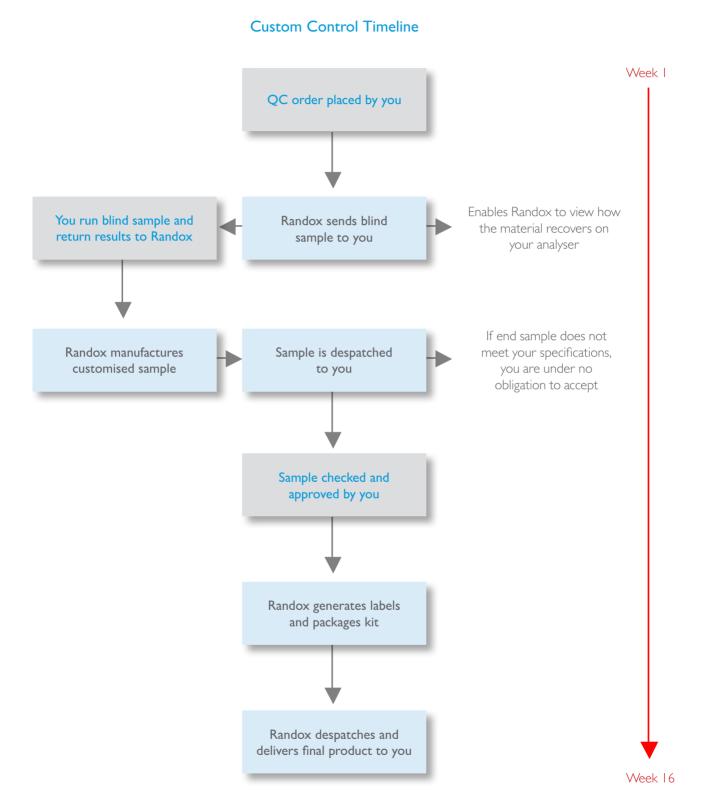
Quality

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

Choice

3 different formats – lyophilised/liquid/liquid frozen

CUSTOMISED QUALITY CONTROL SERA



CUSTOMISED QUALITY CONTROL SERA

Antioxidant

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

Blood Gas

- Calcium
- Chloride
- Glucose
- Lactate
- pCO₂
- pH
- PIT
- pO₂
- Potassium
- Sodium
- Total CO

Cardiac

- BNP
- CK (Total)
- CK-MB
- D-dimer
- Digoxin
- Heart-type Fatty Acid-Binding Protein (H-FABP)
- High Sensitivity Troponin T
- Homocysteine
- hs-CRP
- Myoglobin
- NT-ProBNP
- Troponin I
- Troponin T

Cellular Adhesion Molecules

- E-Selectin
- ICAM-I
- L-Selectin
- P-Selectin
- VCAM-I

Cerebral

- BDNF
- GFAP
- IL-6
- NGALNISE
- sTNFRI
- Thrombomodulin

Coagulation

- Activated Partial Thromboplastin Time (APTT)
- Antithrombin III (ATIII)
- Factor II
- Factor V
- Factor VII
- Factor VIII
- Factor IXFactor X
- Factor XI
- Factor XII
- Fibrinogen
- Plasminogen
- Protein C
- Protein S
- Prothrombin Time (PT)
- Thrombin Time (TT)

CSF

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

Cytokine & Growth Factors

- Epidermal Growth Factor (EGF)
- Granulocyte Macrophage Colony-Stimulating Factor (GMCSF)
- Intercellular Adhesion Molecule I (ICAM-I)
- Interferon-γ (IFN-γ)
- Interleukin-l α (IL-l α)
- Interleukin-I β (ÎL-Iβ)
- Interleukin-2 (IL-2)
- Interleukin-3 (IL-3)
- Interleukin-4 (IL-4)
- Interleukin-5 (IL-5)
- Interleukin-5 (IL-5)
- Interleukin-6 (IL-6)
- Interleukin-7 (IL-7)
- Interleukin-7D (IL-7D)
- Interleukin-8 (IL-8)
- Interleukin-10 (IL-10)
- Interleukin-12p (IL-12p)
- Interleukin-13 (IL-13)
- Interleukin-15 (IL-15)
- Interleukin-23 (IL-23)
- Macrophage Inflammatory Protein-I α (MIP-I α)
- Matrix Metalloproteinase 9 (MMP-9)
- Monocyte Chemotactic Protein-I (MCP-I)
- Soluble Interleukin-2 Receptor α (SIL-2R α)
- Soluble Interleukin-6 Soluble Receptor (SIL-6SR)
- Soluble Tumour Necrosis Factor Receptor-I (sTNFRI)
- Soluble Tumour Necrosis Factor Receptor-2 (sTNFR2)
- Tumour Necrosis Factor α (TNF α)
- Tumour Necrosis Factor β (TNF β)
- Vascular Endothelial Growth Factor (VEGF)

Diabetes

- Fructosamine
- HbA1cHbA2
- Hbf
- HbtHbs

Drugs (Therapeutic)

- Acetaminophen (Paracetamol)
- Amikacin
- Caffeine
- Carbamazepine
- Cyclosporine
- Digoxin
- EthosuximideGentamicin
- LithiumMethotrexate

- Phenobarbitone
- Phenytoin
- Primidone
- Salicylate
- Theophylline
- Tobramycin
- Valproic Acid
- Vancomycin

Drugs of Abuse

- 7-aminoflunitrazepam
- II-Nor D-9-THC-9-COOH
- Acetaminophen
- Amphetamine
- Barbiturates
- Bath Salts I+2
- Benzodiazepine
- Benzoylecgonine
- Benzylpiperazines
- BuprenorphineCannabinoids
- Calmadinoids
 Chloral Hydrate Metabolite
- Cocaine Metabolite
- Dextromethorphan
- Ecstasy
- EDDP
- Ethanol
- Ethyl Glucuronide
- Escitalopram
- Fentanyl
- Halopéridol
- Ibuprofen
- Ketamine
- LSDMeperidine
- Meprobamate
- MeprobanMescaline
- Methadone
- Methamphetamine
- Methaqualone
- MethylphenidateMDMA
- Morphine
- Opiates
- Oxazepam
- Oxycodone I
- Oxycodone II
- PhencyclidinePhenobarbitone
- Phenylpiperazines
- Propoxyphene
- Salicylate
- Salicyluric Acid
- SalvinorinSecobarbital
- Setraline
- Tramadol
- Trazodone
- Tricyclic Antidepressants
- ZoleplonZolpidem
- Zopiclone

CUSTOMISED OUALITY CONTROL SERA

Immunoassay

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

- Tobramycin
- TSH
- Valproic Acid
- Vancomycin
- Vitamin B₁₂

Lipids

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

Metabolic Syndrome

- Plasminogen Activator Inhibitor-I
- Resistin

Proteins

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

Routine Chemistry

- α-I-Globulin
- α-2-Globulin
- Albumin
- Acid Phosphatase (Prostatic)
- Acid Phosphatase (Total)
- Albumin
- Alkaline Phosphatase (ALP)
- ALT (GPT)
- Amylase
- Amylase (Pancreatic)
- AST (GOT)

- β-I-Globulin
- Bicarbonate
- Bile Acids
- Bilirubin (Direct)
- Bilirubin (Total)
- Cholinesterase
- Calcium • Calcium (Ionised)
- Chloride
- Copper
- Creatinine
- D-3-Hydroxybutyrate
- γGT
- γ-Globulin
- Glucose
- GLDH
- Iron
- Iron (TIBC)
- Lactate
- · Lactate Dehydrogenase (LDH)
- LAP
- Lipase Magnesium
- Osmolality • Phosphate (Inorganic)
- Potassium
- Sodium
- Urea
- Uric Acid (Urate)
- 7inc

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

Vanillylmandelic Acid

• Uric Acid (Urate)

INTER-LABORATORY DATA MANAGEMENT

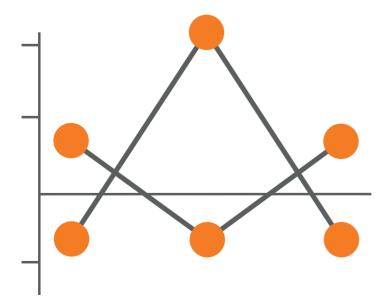
Compatible for use with the Acusera range of third party controls, the Acusera 24•7 software is designed to help laboratories monitor and interpret their QC data. Access to an impressive range of features including interactive charts and real-time peer group data generated from our extensive database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



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

Why run a peer group reporting program?

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



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

Dashboard

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



Acusera Advisor

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

Interactive Charts

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



Peer Group Statistics

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

Advanced Statistical Analysis

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



DATA ENTRY OPTIONS

There are three options for QC data entry with Acusera 24.7

Manual result entry

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



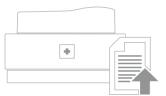
I. Analyser generates QC result.



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.



 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.

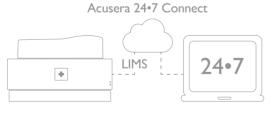
Note: First time users must create a new configuration for the EDI file and carry out EDI mapping.

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.



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

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

Software options

Description	Cat. No.	Description	Cat. No.	Description	Cat. No.	Description	Cat. No.
Acusera 24•7 Platinum	QC4218	Acusera 24•7 Configuration/Mapping	QC4224	Acusera 24•7 Connect Box	QC4227	Installation of Customer Connect Box (Onsite)	QC4230
Acusera 24•7 Gold	QC10232	Acusera 24.7 Training (on-site)	QC4225	Acusera 24.7 Cloud Connect	QC4228	Installation of Customer Connect Box (Remote)	QC4231
Acusera 24•7 Silver	QC10233	Acusera 24•7 Training (remote)	QC4226	Installation of Randox Connect Box (Onsite)	QC4229	Acusera 24•7 End User Cloud Connect*	QC4232

EXTERNAL QUALITY ASSESSMENT

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

FEATURES AND BENEFITS

RIQAS - Randox International Quality Assessment Scheme

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

Benefits

Large Database of Users

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

User-friendly Reports

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

Cost Effective

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

Frequency

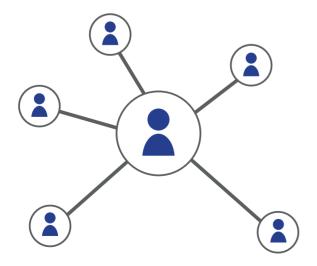
- Frequent reporting allows early identification of system errors and implementation of any necessary corrective actions with minimum disruption to the lab.
- With a turnaround of less than 72 hours for most reports, corrective action can be taken immediately reducing the time spent performing expensive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

High Quality Samples

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

Highly Accredited

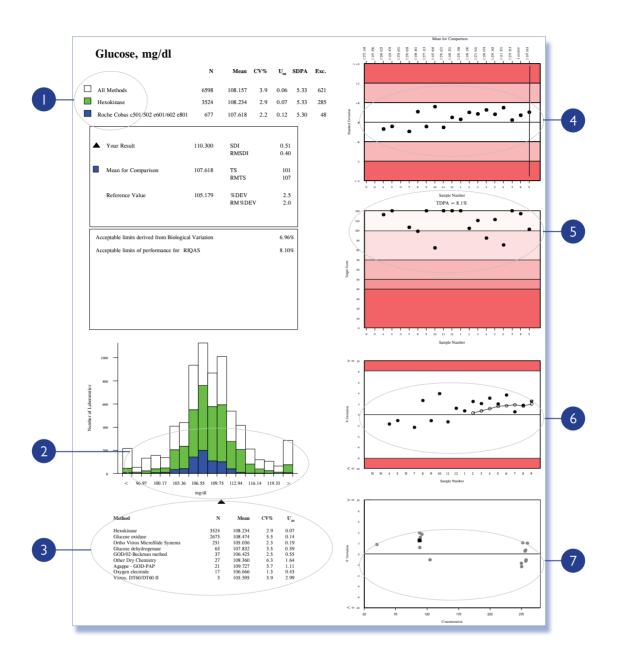
- Programmes accepted by National and International accreditation bodies worldwide.
- Participant certificates provide evidence of participation in a reputable EQA scheme.



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

STANDARD REPORT

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



Statistics for all methods, your method and instrument group (programme specific).
Method and instrument comparison.
Enables assessment of the performance of each method.
Details features of your laboratory's performance.
This unique chart provides a numerical index of performance, allowing at-a-glance assessment.
Helps to identify trends and shifts in performance.
Rapid assessment of concentration related biases.

RIQAS PROGRAMMES

Ammonia/Ethanol Programme+ With target scoring



RQ9164 (2 ml)

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

Ammonia Ethanol

Anti-TSH Receptor Programme+ With target scoring



RQ9174 (1 ml) I Parameter

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

Anti-TSH Receptor (TRAb)

Blood Gas Programme With target scoring



RQ9134 (1.8 ml)

First registered instrument

10 Parameters

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

BNP Programme+ With target scoring



RQ9165 (1 ml)

l Parameter

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

BNP

Cardiac Programme With target scoring



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

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

Cerebrospinal Fluid Programme+ With target scoring



RQ9168 (3 ml)

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

 Albumin
 Glucose
 Lactate
 Sodium

 Chloride
 IgG
 Protein (Total)

Coagulation Programme With target scoring



RQ9135/a (1 ml)

5 Selected parameters only
(aPTT, PT, TT, Fibrinogen, Antithrombin III)

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

 aPTT
 Plasminogen
 Factor VII
 Factor XII

 PT (including INR)
 Protein C
 Factor VIII
 D-dimer*

 TT
 Protein S
 Factor IX

 Fibrinogen
 Factor II
 Factor X

 Antithrombin III
 Factor V
 Factor XI





Lactate

RIOAS PROGRAMMES

CO-Oximetry Programme+



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

Carboxyhaemoglobin (COHb / HbCO) Deoxyhaemoglobin (HHb)

Methaemoglobin (MetHb) Oxygen Content (O2CT)

Oxygen Saturation (sO2 / Vol O2) Oxyhaemoglobin (O2Hb / HbO2)

Total Haemoglobin (tHb)

CYFRA 21-1 Programme+



RQ9175 (1 ml)

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

CYFRA 21-1 (Cytokeratin 19)

ESR Programme+



RQ9163 (4.5 ml)

I Parameter 2 samples per quarterly distribution, I \times 12 month cycle, I2 months subcription

ESR (Erythrocyte Sedimentation Rate)

General Clinical Chemistry Programme With target scoring



RQ9112/a (5 ml) RQ9112/b (5 ml) RQ9112/c (5 ml) 10 Parameters only 17 Parameters only Full 52 Parameters

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

ACE (Angiotensin Converting Enzyme) Acid Phosphatase (Prostatic) Acid Phosphatase (Total) Albumin Alkaline Phosphatase ALT (ALAT) Amylase (Pancreatic) Amylase (Total) AST (ASAT) Bicarbonate Bile Acids Bilirubin (Direct)

Calcium Calcium (Ionised) Chloride Cholesterol Cholinesterase CK. Total (CPK) Copper Creatinine D-3-Hydroxybutyrate Fructosamine γGT GLDH

HBDH HDL-Cholesterol Iron Lactate LD (LDH) Lipase Lithium Magnesium NEFA Osmolality Phosphate (Inorganic) Potassium Protein (Total)

PSA Sodium TIBC T₃ (Free)
T₃ (Total)
T₄ (Free)
T₄ (Total)
Triglycerides UIBC Urea Uric Acid Zinc

Glycated Haemoglobin Programme (HbAIc) With target scoring

Glucose



RQ9129 (0.5 ml)

2 Parameters

Bilirubin (Total)

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

Total Haemoglobin

Haematology Programme With target scoring



11 Parameters Samples every 2 weeks, 2×6 monthly cycles, 12 month subscription

Haematocrit (HCT) Haemoglobin (Hb)

Mean Cell Haemoglobin (MCH)

Mean Cell Volume (MCV)

Mean Platelet Volume (MPV)

Platelets (PLT) Red Blood Cell Count (RBC)

Red Cell Distribution Width (RDW) Total White Blood Cell Count (WBC)





RIOAS PROGRAMMES

Human Urine Programme With target scoring



RQ9115 (10 ml)

25 Parameters
Samples every 2 weeks, 2 × 6 monthly cycles, 12 month subscription

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

Immunoassay Programme With target scoring



RQ9125/a (5 ml)	RQ9125/b (5 ml)	RQ9125/c (5 ml)	RQ9130 (5 ml)	
4 Parameters only (choose from 55)	13 Parameters only (choose from 55)	Full 55 Parameters	Full 55 Parameters	
Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c)				
Samples every month, I x I2 month cycle, I2 month subscription (RQ9130)				

ACTH DHEA Unconjugated 17-OH-Progesterone T₄ (Free) AFP Aldosterone Estriol Total* Phenobarbitone Testosterone (Free)* Amikacin Ethosuximide³ Phenytoin Testosterone (Total) Androstenedione Primidone* Theophylline Ferritin β-2-Microglobulin Folate Progesterone Thyroglobulin CA125 **FSH** Prolactin Tobramycin* CA15-3 Gentamicin PSA (Free) TSH PSA (Total) CA19-9 Valproic Acid GH hCG PTH Carbamazepine Vancomycin CEA ΙgΕ Salicylate Vitamin B12 Cortisol Insulin SHBG I-25-(OH)₂-Vitamin D* T₃ (Free) T₃ (Total) C-Pentide ΙH 25-OH-Vitamin D Oestradiol DHFA-Sulphate

Immunoassay Speciality I Programme+ With target scoring



RQ9141 (2 ml) 10 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription, reference method values

I-25-(OH),-Vitamin D* Anti-TG Osteocalcin Insulin 25-OH-Vitamin D Anti-TPO Procalcitonin C-Peptide IGF-I PTH

Immunoassay Speciality 2 Programme+ With target scoring



RQ9142 (2 ml)

5 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription, reference method values

Calcitonin Procalcitonin Plasma Renin Activity Renin (Direct Concentration) Gastrin

Immunosuppressant Programme+



RQ9159 (2 ml) 4 Parameters

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

Sirolimus Tacrolimus

Lipid Programme With target scoring



RQ9126/a (3 ml)	RQ9126/b (3 ml)
3 Parameters only (choose from 7)	Full 7 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles,	12 month subscription

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





RIQAS PROGRAMMES

Liquid Cardiac Programme With target scoring



RQ9136 (3 ml)

9 Parameters

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

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

Maternal Screening Programme With target scoring



RQ9137 (1 ml)

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

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

Serology (EBV) Programme+



RQ9153 (1 ml)

3 samples per quarterly distribution, 1×12 month cycle, 12 month subscription, Quantitative and Qualitative results

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

Serology (HIV-Hepatitis) Programme+



5 samples per quarterly distribution, 1×12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-HIV-I Anti-HCV Anti-HIV-2 Anti-HBc Anti-HTLV-1&2 Combined

Anti-HTLV-I Anti-HIV-I&2 Combined Anti-CMV

Serology (Syphilis) Programme+



RQ9154 (1 ml)

I Parameter

 $3 \ samples \ per \ quarterly \ distribution, \ 1 \times 12 \ month \ cycle, \ 12 \ month \ subscription, \ Quantitative \ and \ Qualitative \ results$

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

Serology (ToRCH) Programme+



RQ9152 (1 ml)

12 Parameters

5 samples per quarterly distribution, 1×12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-Toxoplasma IgG Anti-HSV I IgM Anti-Rubella IgM Anti-HSVI IgG Anti-Toxoplasma IgM Anti-CMV IgG Anti-HSV2 lgG Anti-HSV 2 IgM Anti-HSV I + 2 IgM Combined Anti-Rubella IgG Anti-CMV IgM Anti-HSV-1&2 IgG Combined

Specific Proteins Programme With target scoring



26 Parameters	KQ7160 (2 MI)	KQ9161 (1 ml)		
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription				
AFP	β-2-Microglobulin	IgA	Lambda Light Chain (Total)	
Albumin	Ceruloplasmin	lgE	Prealbumin (Transthyretin)	
α-I-Acid glycoprotein	Complement C ₃	lgG	Retinol Binding Protein	
α -I-Antitrypsin	Complement C ₄	lgM	Rheumatoid Factor	
α -2-Macroglobulin	C-Reactive Protein	Kappa Light Chain (Free)	Transferrin	
Anti Streptolysin O	Ferritin	Kappa Light Chain (Total)		
Antithrombin III	Haptoglobin	Lambda Light Chain (Free)		





RIOAS PROGRAMMES

Sweat Testing Programme+



Conductivity

RQ9173 (2 ml)

2 Parameters

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

Chloride

Therapeutic Drugs Programme With target scoring



18 Parameters

Samples every 2 weeks, 2×6 monthly cycles, 12 month subscription, Weighed-in values

Amikacin Ethosuximide Caffeine Gentamicin Carbamazepine Lithium Ciclosporin Methotrexate

Paracetamol (Acetaminophen)

Phenobarbitone Phenytoin Primidone Salicylic Acid Theophylline

Tobramycin Valproic Acid Vancomycin

Zinc

Trace Elements In Blood Programme+



RQ9172 (3 ml) 7 Parameters

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

Lead Manganese Copper Magnesium

Trace Elements In Serum Programme+



RQ9170 (3 ml)

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

Manganese Aluminium Copper Chromium lodine Nickel Selenium

Trace Elements In Urine Programme+



RQ9171 (3 ml)

II Parameters

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

Cadmium Copper Magnesium Nickel Chromium Manganese Thallium lodine Cobalt Molybdenum Lead

Urinalysis Programme+ With scoring



RQ9138 (12 ml) 14 Parameters

Samples every 2 months, 1×12 month cycle, 12 month subscription

Albumin Galactose Leukocytes Bilirubin Glucose Nitrite hCG Blood ρН Creatinine Protein Ketones

Urine Toxicology Programme+



RQ9139 (5 ml) 20 Parameters

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

d-Methamphetamine Benzoylecgonine EDDP Cannabinoids (THC) Ethanol Cotinine Free Morphine Creatinine Lorazepam LSD d-Amphetamine

MDMA Methadone Nortriptyline Norpropoxyphene Oxazepam Phencyclidine

Phenobarbitone

Specific Gravity

Urobilinogen





PURPLE = The only parameters available on RQ9135/a

* = Pilot study ongoing

CALIBRATION VERIFICATION SETS

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

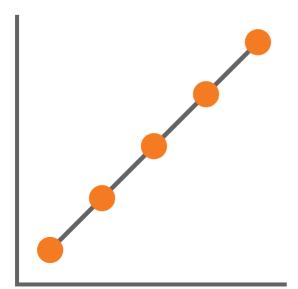
WHAT IS ACUSERA VERIFY?



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

Benefits

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



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

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

C-Reactive Protein (CRP) Linearity Verifiers

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

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

DescriptionSizeCat. No.CRP Linearity Verifier5 x l mlLV10334

High Sensitivity C-Reactive Protein (hsCRP) Linearity Verifier

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

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

Esoterics Linearity Verifier

	An	alytes	
Acetaminophen Ammonia	Ethanol Microalbumin	Urinary Protein	Salicylate

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

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

DescriptionSizeCat. No.Esoterics Linearity Verifier $5 \times 3 \text{ ml}$ LV10336

Rheumatoid Factor (RF) Linearity Verifier

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

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

DescriptionSizeCat. No.Rheumatoid Factor (RF) Linearity Verifier5 x l mlLV10343

Lipids Linearity Verifier

	An	alytes	
HDL Cholesterol	LDL Cholesterol	Total Cholesterol	Triglycerides

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

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

DescriptionSizeCat. No.Lipids Linearity Verifier $5 \times 3 \text{ ml}$ LV 10344

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

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

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

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

DescriptionSizeCat. No.Apolipoproteins Linearity Verifier5 x 3 mlLV10357

Therapeutic Drug Monitoring (TDM) Linearity Verifier

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

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

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

DescriptionSizeCat. No.Therapeutic Drug Monitoring Linearity Verifier $5 \times 5 \text{ ml}$ LV 10355

CO₂ and Electrolytes Linearity Verifier

	An	alytes	
CO ₂	Sodium	Potassium	Chloride

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

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

Description	Size	Cat. No.
CO ₂ and Electrolytes Linearity Verifier	5×5 ml	LV10362

Bilirubin Linearity Verifier

	Analytes
Direct Bilirubin	Total Bilirubin

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

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

DescriptionSizeCat. No.Bilirubin Linearity Verifier5 x 3 mlLV 10356

Enzyme Linearity Verifier

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

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

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

SOLUTIONS FOR BECKMAN ANALYSERS

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

Analytes Apolipoprotein AI Apolipoprotein B

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

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

DescriptionSizeCat. No.Apolipoproteins Linearity Verifier5 x 3 mlLV 10363

Lipids Linearity Verifier

An	alytes
HDL Cholesterol LDL Cholesterol	Triglycerides

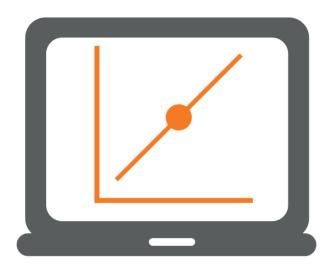
Our Lipids Linearity Verifier comprises 3 common lipid assays and is specifically designed for use on Beckman Coulter analysers. Five levels are available and span the instrument's complete reportable range. Designed in a liquid frozen format, this linearity verifier will objectively verify calibration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

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

DescriptionSizeCat. No.Lipids Linearity Verifier $5 \times 3 \text{ ml}$ LV10364

DATA REDUCTION SOFTWARE

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



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

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

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

Find out more at www.randoxqc.com

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.

Antioxidant Controls	80	80	80	80	=	4	4 ;	2 =	2 2	91	91	61	20	21	22	23	24	24	25	25	26	26	26	29	33	33	33	34	34	37	37	38	39	40	40	4	-	47	45	2 4	40
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Liquid CSF Control ASO Standard	β-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	High Sensitivity IgG Control and Calibrator Rheumatoid Factor Calibrator Series	STR Control and Calibrator	Lyme Disease (Borrelia burgdorferi) Control	ToRCH Controls	Epstein Barr Virus (EBV) Control	Serology Controls	Lipid Control	Liquid Lipid Control	Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	SLDL Control and Calibrator	HDL-3 Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control	Cerebral Array II Control	Cytokine Array Controls and Calibrator	Evidence Immunoassay Control	Synthetic Sydrome Controls and Calibrators	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array I Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators	Ecstasy Control and Calibrator	EDDP Control and Calibrator	Multidrug Control	Benzodiazepines Control and	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Low Level hCG Control	Microalbumin Control and Calibrator		
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	Immunology/Protein Controls	Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status	Blood Gas Control	Cardiac Control	Liquid BNP Control	High Sensitivity Iroponin I	Mondokin Calibrator Series	H-FABP Control and Calibrator	SPLA ₂ -IIA Control and Calibrator	Precision Chemistry Premium Plus	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Multi Control and	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator	Coagulation Control	Haematology Control	HbA I c Control and Calibrator	Industrian Darker	Fructosamine Control and Calibrator	Haemorlohin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Liquid Tumour Marker	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator	CRP Controls and Calibrator
S	Soluble Tumour Necrosis Factor Receptor I (sTNFR I)			S		ш				7 2	+	S	-		1	_					ш (с						- -	1	1		1	-		_	_	_	=				S	S	S	
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