

THIRD PARTY CONTROLS





ACUSERA

TRUE THIRD PARTY CONTROLS OFFERING COMPLETE TEST MENU CONSOLIDATION



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BENEFITS

For over 40 years Randox has been shaping the future of clinical diagnostics with our pioneering high quality, cost effective laboratory solutions. With approximately 70% of clinical decisions based on laboratory test results, it is essential that the results provided are accurate and reliable in order to prevent potential misdiagnosis or inappropriate treatment.

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



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.

EQA

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

The Randox International Quality Assessment Scheme (RIQAS), is used by more than 55,000 laboratory participants in 134 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 37 flexible EQA programmes, utilising the available data to ensure the quality and reliability of their results.

CONSOLIDATION

Consolidate and Save with Randox Acusera.

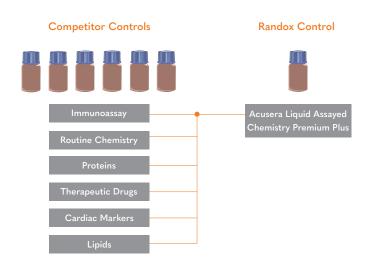
Randox is a leading provider of multi-analyte, true third party controls covering more than 400 parameters. The unique combination of analytes facilitates effective consolidation, helping your laboratory to reduce costs without compromising on performance or quality. Unlike some competitor products, 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.

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



Immunoassay Tumour Markers Anaemia Monitoring Therapeutic Drugs

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 B₁₂ 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

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.



ISO13485:2016

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

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

FDA Cleared

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



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 Peroxidase (Ransel) Control	10 x 1 ml	SC692	08
Glutathione Peroxidase (Ransel) Calibrator	10 x 1 ml	SC10154	08
Glutathione Reductase Control	10 x 5 ml	GR2608	08
Glutathione Reductase Calibrator	10 x 5 ml	GR2609	08
Superoxide Dismutase (Ransod) Control	10 x 1 ml	SD126	08
Total Antioxidant Status (TAS) Control	10 x 5 ml	NX2331	08





frozen









Glutathione Peroxidase (Ransel) Control and Calibrator 👢 🍥



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

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

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

Glutathione Reductase Control and Calibrator 👢 🍥





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

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

Description	Size	Cat. No.
Ransel Control	10 x 1 ml	GR2608
Ransel Calibrator	10 x 1 ml	GR2609

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

Total Antioxidant Status (TAS) Control and Calibrator 👢 🍥





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

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

Description Size Cat. No. Total Antioxidant Status Control $10 \times 5 \text{ ml}$ NX2331

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

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	11
Blood Gas Control Level 2	30 x 1.8 ml	BG5002	11
Blood Gas Control Level 3	30 x 1.8 ml	BG5003	11







Liquid frozen



Lyophilised for enhanced stability



Assayed target



00% human

BLOOD GAS

Blood Gas Control 6 ©



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

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

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

Description	Size	Cat. No.
Blood Gas Control Level 1	30 x 1.8 ml	BG5001
Blood Gas Control Level 2	30 x 1.8 ml	BG5002
Blood Gas Control Level 3	30 x 18 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 Pro	oduct Range		
Product Description	Size	Cat. No.	Page No.
Cardiac Control – Ultra Low	3 x 3 ml	CQ10453	14
Cardiac Control Level 1	3 x 3 ml	CQ10454	14
Cardiac Control Level 2	3 x 3 ml	CQ10455	14
Cardiac Control Level 3	3 x 3 ml	CQ10456	14
Tri-Level Cardiac Control	3 x 1 ml	CQ3100	14
Tri-Level Cardiac Control	3 x 2 ml	CQ3259	14
Troponin T Control (ultra low)	6x 3 ml	CQ10450	15
CK-MB Control	10 x 2 ml	CK1212	15
CK-MB Calibrator	10 x 1 ml	CK2393	15





frozen







Assayed target values provided



matrix

Cardiac Control 🐉 🔘



Analytes

Cardiac Ultra Low Troponin I

Cardiac Level 1 NT-proBNP Troponin I

Cardiac Level 2 NT-proBNP Troponin I

Cardiac Level 3 NT-proBNP Troponin I

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

- Liquid frozen
- Human based serum
- · 4 Clinically relevant levels (including Ultra-Low)
- Stable to expiry date at -18°C to -24°C
- Open vial stability of up to 7 days at 2°C to 8°C

Description	Size	Cat. No.
Cardiac Control Ultra Low	$3 \times 3 \text{ ml}$	CQ10453
Cardiac Control Level 1	$3 \times 3 \text{ ml}$	CQ10454
Cardiac Control Level 2	$3 \times 3 \text{ ml}$	CQ10455
Cardiac Control Level 3	3 x 3 ml	CQ10456

Tri-Level Cardiac Control &





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

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
- Aqueous material
- Cut off levels for Troponin I and T in-line with international recommendations
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C or 28 days at -20°C

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

^{*} Only available in level 2 and level 3

CARDIAC

Troponin T Control 🐉 🎯 🛉





Intended for use with the Roche system, this control is manufactured using only the highest quality material.

- Liquid frozen
- 100% human serum
- Ultra low levels of Troponin T
- Stable to expiry date at -18°C to -24°C
- Open vial stability of up to 7 days at 2°C to 8°C

Description Troponin T Control 6 x 3 ml CQ10450

CK-MB Control and Calibrator & 🌡 🎯 🛊





Ana	ılytes
CK-MB	CK-NAC*

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

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

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

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

CLINICAL CHEMISTRY CONTROLS

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

Clinical C	Chemistry Product Range		
Product Description	Size	Cat. No.	Page No.
Precision Chemistry Premium Plus Level 2	20 x 5 ml	UN1557	18
Precision Chemistry Premium Plus Level 3	20 x 5 ml	UE1558	18
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069	19
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070	19
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071	19
Assayed Chemistry Premium Plus Level 2	20 x 5 ml	HN1530	20
Assayed Chemistry Premium Plus Level 3	20 x 5 ml	HE1532	20
Assayed Chemistry Premium Plus Level 2 & 3	2 x 5 x 5 ml	HS2611	20
Liquid Assayed Chemistry Premium Plus Level 1	12 x 5 ml	LAL4213	21
Liquid Assayed Chemistry Premium Plus Level 2	12 x 5 ml	LAN4214	21
Liquid Assayed Chemistry Premium Plus Level 3	12 x 5 ml	LAE4215	21
Bovine Chemistry Assayed Level 1	20 x 5 ml	AL1027	22
Bovine Chemistry Assayed Level 2	20 x 5 ml	AN1026	22
Bovine Chemistry Assayed Level 3	20 x 5 ml	AE1032	22
Clinical Chemistry Calibration Serum Level 2	20 x 5 ml	CAL2350	23
Clinical Chemistry Calibration Serum Level 3	20 x 5 ml	CAL2351	23
Ammonia Ethanol Control Level 1	6 x 2 ml	EA1366	23
Ammonia Ethanol Control Level 2	6 x 2 ml	EA1367	23
Ammonia Ethanol Control Level 3	6 x 2 ml	EA1368	23
Aldolase Calibrator	3 x 1 ml	AD5000	24
Aldolase Control Level 2	3 x 1 ml	AD5001	24
Aldolase Control Level 3	3 x 1 ml	AD5002	24
Liquid Bilirubin Control Level 1	3 x 3 ml	BR10442	24
Liquid Bilirubin Control Level 2	3 x 3 ml	BR10443	24
Bilirubin Elevated Serum	10 x 3 ml	BE454	24
Glycerol Control	3 x 5 ml	GY1369	25
Multi Calibrator	3 x 2 ml	MC1382	25
Multi Control Level 1	5 x 2 ml	MC1379	25
Multi Control Level 2	5 x 2 ml	MC1380	25
Multi Control Level 3	5 x 2 ml	MC1381	25
Glutamine Control Level 1	5 x 5 ml	GM1376	25
Glutamine Control Level 2	5 x 5 ml	GM1377	25
Glutamine Control Level 3	5 x 5 ml	GM1378	25
Glutamine Calibrator	3 x 5 ml	GM1375	25
Serum Indices Control	4 x 5 ml	SI10448	26







Lyophilised for enhanced stability



Assayed target values provided



100% human matrix

Precision Chemistry Premium Plus Control



Analytes Cardiac Prolactin Ferritin Chloride CK (Total) PSA (Total) Haptoglobin Cholinesterase Immunoglobulin A (IgA) Myoglobin T3 (Free) Creatinine Troponin I D-3-Hydroxybutyrate T3 (Total) Immunoglobulin E (IgE) γGT GLDH T4(Free) Immunoglobulin G (IgG) Drugs Immunoglobulin M (IgM) T4 (Total) Glucose Carbamazepine TSH Prealbumin Iron Digoxin Vitamin B₁₂ Protein (Total) Iron (TIBC) Gentamicin Transferrin Iron (UIBC) Lithium Lipids Paracetamol Lactate Apolipoprotein A-I **Routine Chemistry** Phenobarbitone Lactate Dehydrogenase (LDH) Apolipoprotein B α -HBDH Phenytoin LAP Cholesterol (HDL) Acid Phosphatase (Prostatic) Salicylate Lipase Cholesterol (Total) Acid Phosphatase (Total) Theophylline Magnesium **NEFA** Albumin Tobramycin Osmolality Alkaline Phosphatase (ALP) Triglycerides Valproic Acid Phosphate (Inorganic) ALT (GPT) Vancomycin Potassium Amylase **Proteins** Sodium Amylase (Pancreatic) AST (GOT) α -1-Acid Glycoprotein Urea **Immunoassay** Uric Acid (Urate) α -1-Antitrypsin α-Fetoprotein (AFP) Bicarbonate Ceruloplasmin CEA Bile Acids Bilirubin (Direct) Bilirubin (Total) Cortisol Complement C3 **Trace Metals** Complement C4 Folate Copper hCG CRP Calcium Zinc

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

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

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

Liquid Chemistry Premium Plus Control



Analytes				
Cardiac	Immunoassay	Proteins	Bile Acids	
CK (Total)	α-Fetoprotein (AFP)	α-1-Acid Glycoprotein	Bilirubin (Direct)	
Myoglobin	CEA	α-1-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	
		ACE (Angiotensin Converting Enzyme)*	Phosphate (Inorganic)	
Electrophoresis	Lipids	Acid Phosphatase (Prostatic)	Potassium	
α-1-Globulin	Apolipoprotein A-1	Acid Phosphatase (Total)	Sodium	
lpha-2-Globulin	Apolipoprotein B	Albumin	Urea	
Albumin	Cholesterol (HDL)	Alkaline Phosphatase (ALP)	Uric Acid (Urate)	
β-Globulin	Cholesterol (LDL)	ALT (GPT)		
γ-Globulin	Cholesterol (Total)	Amylase	Trace Metals	

Amylase (Pancreatic)

AST (GOT)

Bicarbonate

Copper

Zinc

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

- Liquid frozen
- Human based serum
- High levels of CRP and other proteins eliminate the need for separate controls

Lipoprotein (a)

Triglycerides

- Stable to expiry date at -20°C to -70°C
- Open vial stability of up to 7 days at 2°C to 8°C
- Typical values provided for all analytes

Description	Size	Cat. No.	
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069	
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070	
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071	*No claims are made regarding values or stability.

Assayed Chemistry Premium Plus Control 👢 🔘



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

One of our most popular controls, the Acusera Assayed Chemistry Premium Plus Control, combines a comprehensive 68 analytes in a single vial for maximum efficiency. As a true third party control, assayed instrument, method and temperature specific target values are provided for an extensive range of clinical chemistry analysers, reducing the need to assign values in-house. Also provided are electrophoresis targets as a % breakdown of total protein.

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

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

Liquid Assayed Chemistry Premium Plus Control





Analytes			
Cardiac	Immunoassay	Proteins	Bile Acids
CK (Total)	α-Fetoprotein (AFP)	α-1- Acid Glycoprotein	Bilirubin (Direct)
Myoglobin	CEA	α-1-Antitrypsin	Bilirubin (Total)
Troponin T	Cortisol	β-2-Microglobulin	Calcium
ороли	DHEA Sulphate	Ceruloplasmin	Chloride
Drugs	Folate	Complement C3	Cholinesterase
Amikacin	FSH	Complement C4	Creatinine
Caffeine	hCG	CRP	D-3-Hydroxybutyrate
Carbamazepine	Luteinising Hormone (LH)	Ferritin	γGT
Digoxin	Progesterone	Haptoglobin	GLDH
Ethanol	Prolactin	Immunoglobulin A (IgA)	Glucose
Gentamicin	PSA (Total)	Immunoglobulin E (IgE)	Iron
Lithium	T Uptake	Immunoglobulin G (IgG)	Iron (TIBC)
Paracetamol	T3 (Free)	Immunoglobulin M (IgM)	Lactate
Phenobarbitone	T3 (Total)	Prealbumin	Lactate Dehydrogenase (LDH)
Phenytoin	T4(Free)	Protein (Total)	Lipase
Salicylate	T4 (Total)	Transferrin	Magnesium
Theophylline	Testosterone		Osmolality
Valproic Acid	TSH	Routine Chemistry	Phosphate (Inorganic)
Vancomycin	Vitamin B ₁₂	α-HBDH	Potassium
	12	ACE (Angiotensin Converting Enzyme)*	Sodium
Electrophoresis	Lipids	Acid Phosphatase (Total)	Urea
α-1-Globulin	Apolipoprotein A-1	Albumin	Uric Acid (Urate)
α-2-Globulin	Apolipoprotein B	Alkaline Phosphatase (ALP)	
Albumin	Cholesterol (HDL)	ALT (GPT)	Trace Metals
β-Globulin	Cholesterol (LDL)	Amylase	Copper
γ-Globulin	Cholesterol (Total)	Amylase (Pancreatic)	Zinc
	Lipoprotein (a)	AST (GOT)	
	Triglycerides	Bicarbonate	

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

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

Description	Size	Cat. No.	
Liquid Assayed Chemistry Premium Plus Level 1	12 x 5 ml	LAL4213	
Liquid Assayed Chemistry Premium Plus Level 2	12 x 5 ml	LAN4214	
Liquid Assayed Chemistry Premium Plus Level 3	12 x 5 ml	LAE4215	*No claims are made regarding values or stability.

Bovine Chemistry Assayed Control & ©



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

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
- GLDH is stable for 1 day at 2°C to 8°C and TIBC (AL1027 Only) is stable for 4 days at 2°C to 8°C.

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

Clinical Chemistry Calibration Serum



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

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
- Multi-point calibration serum

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

Ammonia Ethanol Control



	Analytes	
Ammonia	Ethanc	ol

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

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

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

Aldolase Control and Calibrator



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

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

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





Liquid	Bilirubin	Control	

Α	۱n	a	ly	tε	es

Bilirubin (Direct) Bilirubin (Total)

Providing a true third party solution of Bilirubin, this control is designed to deliver an unbiased, independent assessment of performance. Two levels are available covering the required clinically relevant decision levels for neonatal testing and adult liver disease.

- · Liquid frozen
- 100% human serum
- Stable to expiry when stored at -20°C to -70°C
- Open vial stability of 7 days at 2°C to 8°C
- · Elevated levels of Bilirubin ensure clinical decision levels are met

Description	Size	Cat. No.
Liquid Bilirubin Control Level 1	3 x 3 ml	BR10442
Liquid Bilirubin Control Level 2	3 x 3 ml	BR10443

Bilirubin Elevated Serum 👢 🔘





Analytes

Bilirubin (Direct) Bilirubin (Total)

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

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

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

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

Multi Control and Calibrator





	Ana	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
- Single point calibrator

Description	Size	Cat. No.	
Multi Calibrator	3 x 2 ml	MC1382	
Multi Control Level 1	5 x 2 ml	MC1379	
Multi Control Level 2	5 x 2 ml	MC1380	*FOR BIOTEOURIOLOGY INDUSTRIAL LIST
Multi Control Level 3	5 x 2 ml	MC1381	*FOR BIOTECHNOLOGY INDUSTRIAL USE. Not for use in diagnostic procedures.

Glutamine Control and Calibrator





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

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

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

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



	Analytes	
Haemolysis (H)	lcterus (I)	Lipemia (L)

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

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

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

COAGULATION AND HAEMATOLOGY CONTROLS

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

COAGULATION AND HAEMATOLOGY

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













COAGULATION AND HAEMATOLOGY

Coagulation Control 👢 🎯 🛊





Analytes

Activated Partial Thromboplastin Time (APTT) Anti-Thrombin III (AT III) Factor II

Factor VII Factor VIII Factor IX Factor X

Factor XI Factor XII Fibrinogen Plasminogen

Protein C Protein S Prothrombin Time (PT) Thrombin Time (TT)

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

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

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

Haematology Control I 🌘 🛉







Analytes

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

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-touse 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.

HM5162

- Liquid ready-to-use
- 100% Human whole blood
- · Barcoded labels enabling quick and easy sample recognition

Mean Corpuscular Haemoglobin Concentration (MCHC)

Mean Corpuscular Volume (MCV)

- 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

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	32
HbA1c Calibrator Series	5 x 2 ml, 1 x 8 ml	HA3444	32
Liquid HbA1c Control Level 1	6 x 1 ml	HA10224	32
Liquid HbA1c Control Level 2	6 x 1 ml	HA10225	32
Liquid HbA1c Control Set	2 x 2 x 0.5 ml	HA10155	32
G-6PDH Control Deficient	6 x 0.5 ml	PD2617	32
G-6PDH Control Normal	6 x 0.5 ml	PD2618	32
Fructosamine Control Level 1	3 x 1 ml	FR2994	33
Fructosamine Control Level 3	3 x 1 ml	FR2996	33
Fructosamine Calibrator	3 x 1 ml	FR2993	33















100% human matrix

DIABETES AND WHOLE BLOOD

HbA1c Control and Calibrator Series L 🌑 🖠





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

Control

- Lyophilised for enhanced stability
- 100% human whole blood
- Treated in the same manner as a patient sample (requires pretreatment)
- 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-
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 28 days at 2°C to 8°C
- Multi-point calibrator

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

Liquid HbA1c Control 6



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

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

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

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





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

- · Lyophilised for enhanced stability
- · Stabilised red cell haemolysate
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C

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

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

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

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

Immunoa	ssay Product Range		
Product Description	Size	Cat. No.	Page No.
Liquid Immunoassay Premium Tri-Level	4 x 3 x 5 ml	LIA3108	36
PTH Control Level 1	3 x 3 ml	PTH10110	36
PTH Control Level 2	3 x 3 ml	PTH10111	36
PTH Control Level 3	3 x 3 ml	PTH10112	36
Immunoassay Premium Level 1	12 x 5 ml	IA2638	37
Immunoassay Premium Level 2	12 x 5 ml	IA2639	37
Immunoassay Premium Level 3	12 x 5 ml	IA2640	37
Immunoassay Premium Tri-Level	4 x 3 x 5 ml	IA2633	37
Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109	38
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110	38
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111	38
Immunoassay Premium Plus Tri-Level	4 x 3 x 5 ml	IA3112	38
Immunoassay Speciality I Level 1	5 x 2 ml	IAS3113	39
Immunoassay Speciality I Level 2	5 x 2 ml	IAS3114	39
Immunoassay Speciality I Level 3	5 x 2 ml	IAS3115	39
Immunoassay Speciality II Level 1	5 x 1 ml	IAS3117	39
Immunoassay Speciality II Level 2	5 x 1 ml	IAS3118	39
Immunoassay Speciality II Level 3	5 x 1 ml	IAS3119	39
Tumour Marker Control Level 2	3 x 2 ml	TU5002	40
Tumour Marker Control Level 3	3 x 2 ml	TU5003	40
Maternal Screening Control Level 1	3 x 1 ml	MSS5024	40
Maternal Screening Control Level 2	3 x 1 ml	MSS5025	40
Maternal Screening Control Level 3	3 x 1 ml	MSS5026	40













Liquid Immunoassay Premium Control 🐉 🎯 🛉





	Ar	nalytes	
17-OH-Progesterone α-Fetoprotein (AFP) Aldosterone Amikacin β-2-Microglobulin Carbamazepine CEA Cortisol	Ethosuximide Ferritin Folate FSH Gentamicin Growth Hormone (GH) hCG Immunoglobulin E (IgE)	Paracetamol Phenobarbitone Phenytoin Primidone Progesterone Prolactin PSA (Free) PSA (Total)	T3 (Free) T3 (Total) T4 (Free) T4 (Total) Testosterone Theophylline Tobramycin TSH
DHEA-Sulphate Digoxin	Insulin	Salicylate Sex Hormone Binding Globulin (SHBG)	Valproic Acid Vancomycin
Estriol	Luteinising Hormone (LH) Oestradiol	Sex Hormone Binding Globulin (SHBG) T Uptake	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 Tri-Level	4 x 3 x 5 ml	LIA3108







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

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

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

IMMUNOASSAY

Immunoassay Premium Control 👢 🎯 🛊



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

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

- · Lyophilised for enhanced stability
- 100% human serum
- Ferritin and Vitamin B₁₂ levels suitable for Anaemia monitoring
- Ultra low TSH levels in the level 1 control
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 7 days at 2°C to 8°C, or up to 28 days at -20°C

Description	Size	Cat. No.
Immunoassay Premium Level 1	12 x 5 ml	IA2638
Immunoassay Premium Level 2	12 x 5 ml	IA2639
Immunoassay Premium Level 3	12 x 5 ml	IA2640
Immunoassay Premium Tri-level	$4 \times 3 \times 5 \text{ ml}$	IA2633

⁺Values may not be provided for all levels

Immunoassay Premium Plus Control & 🌘 🛉



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

Impressively covering 54 analytes including tumour markers, therapeutic drugs and routine immunoassay tests, the Acusera Immunoassay Premium Plus control has been uniquely designed to eliminate the need for four or more controls, dramatically reducing costs and time. The added advantage of ultra low levels of Ferritin, Vitamin B₁₂ and TSH will ensure accurate performance at key decision levels and further reduce the number of controls required. Assayed target values are supplied for 51 analytes in this true third party control. Manufactured using 100% human serum, this control is designed to directly mimic a patient sample, reducing costly shifts when reagent batch is changed.

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

Description	Size	Cat. No.	
Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109	
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110	
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111	
Immunoassay Premium Plus Tri-level	$4 \times 3 \times 5$ ml	IA3112	⁺ Values may not be provided for all levels

IMMUNOASSAY

Immunoassay Speciality I Control 🌡 🎯 🛊



1-25-(OH)₂-Vitamin D 25-OH-Vitamin D Anti-Thyroglobulin (Anti-TG) C-Peptide Insulin

Anti-Thyroperoxidase (Anti-TPO) Insulin Like Growth Factor-1(IGF-1) 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

- · Lyophilised for enhanced stability
- 100% human serum
- · Assayed target values and ranges for a wide range of immunoassay systems
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of up to 5 days at 2°C to 8°C or 28 days at -20°C. C-Peptide and Procalcitonin are stable for 1 day at 2°C to 8°C. IGF-1 is stable for 8 hours at 2°C to 8°C.

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

Immunoassay Speciality II Control & 🌑 🛊



	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
- Reconstitutued stability of 5 days at 2°C to 8°C for Renin, 1 day at 2°C to 8°C for Procalcitonin and 8 hours at 2°C to 8°C for Gastrin and Calcitonin. Stable for 28 days at -20°C

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

Tumour Marker Control & 🌘 🛉



	Ana	lytes	
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 x 2 ml	TU5002
Tumour Marker Control Level 3	3 x 2 ml	TU5003

Maternal Screening Control & 🌘 🖠



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

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

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

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

IMMUNOLOGY/ PROTEIN CONTROLS

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

Immunology/Protein Product Range			
Product Description	Size	Cat. No.	Page No.
Specific Protein Control Level 1	3 x 1 ml	PS2682	43
Specific Protein Control Level 2	3 x 1 ml	PS2683	43
Specific Protein Control Level 3	3 x 1 ml	PS2684	43
Specific Protein Control Level 1	6 x 3 ml	PS10221	43
Specific Protein Control Level 2	6 x 3 ml	PS10222	43
Specific Protein Control Level 3	6 x 3 ml	PS10223	43
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2691	43
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2692	44
Liquid CRP Control Level 2	10 x 1 ml	CP2480	44
Liquid CRP Control Level 3	10 x 1 ml	CP2481	44
High Sensitivity CRP Control Level 1	10 x 1 ml	CP2476	44
High Sensitivity CRP Control Level 2	10 x 1 ml	CP2477	44
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478	44
CRP Full Range Calibrator	6 x 1 ml	CP2499	44
Canine CRP Control Level 2	3 x 1 ml	CP2803	44
Canine CRP Control Level 3	3 x 1 ml	CP2804	44
CSF Control Level 2	10 x 3 ml	CF1500	45
CSF Control Level 3	10 x 3 ml	CF1501	45
Liquid CSF Control Level 1	10 x 3 ml	CF10138	45
Liquid CSF Control Level 2	10 x 3 ml	CF10139	45
β -2-Microglobulin Calibrator	3 x 1 ml	BM10444	45
Cystatin C Control Level 2	3 x 2 ml	CYS10446	46
Cystatin C Control Level 3	3 x 2 ml	CYS10447	46
Cystatin C Calibrator	5 x 2 ml	CYS10445	46
Immunoglobulin Liquid Protein Calibrator	3 x 1 ml	IT3861	46
IgE Calibrator Series	6 x 1 ml	IE2492	46
sTfR Control Level 1 & 2	3 x 2 x 1 ml	TF10162	47
sTfR Calibrator	6 x 1 ml	TF10161	47



ready-to-use





Lyophilised for enhanced stability





Specific Protein Control 6 0 1





 α -1-Acid Glycoprotein α -1-Antitrypsin α -2-Macroglobulin α-Fetoprotein (AFP) **Albumin** Anti-Streptolysin O (ASO) Anti-Thrombin III (AT III)

 $\beta\text{-}2\text{-}Microglobulin$ 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 x 1 ml	PS2682
Specific Protein Control Level 2	3 x 1 ml	PS2683
Specific Protein Control Level 3	3 x 1 ml	PS2684
Specific Protein Control Level 1	6 x 3 ml	PS10221
Specific Protein Control Level 2	6 x 3 ml	PS10222
Specific Protein Control Level 3	6 x 3 ml	PS10223

*Not for use in USA.

Specific Protein Calibrator 6 🌘 🛊





Anti-Streptolysin O (ASO) Ceruloplasmin Complement C3 Complement C4

CRP Ferritin Haptoglobin

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

Prealbumin Rheumatoid Factor (RF) Transferrin

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
- Multi-point calibrator

Size Cat. No.

Specific Protein Calibrator (Liquid) 5 x 1 ml IT2691 FOR USE WITH SAMPLES THAT DO NOT REQUIRE PRE-DILUTION

FOR USE WITH SAMPLES THAT REQUIRE PRE-DILUTION

Specific Protein Calibrator - Requires pre-dilution



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

Multi-analyte calibrator designed for use in the routine calibration of 3 serum proteins. Supplied in a convenient, liquid ready-to-use format with a working stability of 30 days, waste and time are kept to a minimum.

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

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

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
- Multi-point calibrator

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

Canine CRP Control 6





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

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

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

CSF Control &





 α -1-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 x 3 ml	CF1500
CSF Control Level 3	10 x 3 ml	CF1501

*No claims are made regarding values or stability.

Liquid CSF Control 6



 α -1-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)*

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 x 3 ml	CF10138
Liquid CSF Control Level 2	10 x 3 ml	CF10139

*No claims are made regarding values or stability.





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
- Single point calibrator

Size Cat. No. BM10444 β-2-Microglobulin Calibrator 3 x 1 ml

Cystatin C Control and Calibrator 6 1 1



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

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

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

Immunoglobulin Liquid Protein Calibrator



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

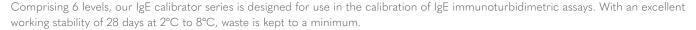
Calibrator series designed for use in the calibration of IgA, IgG and IgM immunoturbidimetric assays. Suitable for use with the Randox immunoglobulin assays.

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

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

IgE Calibrator 👢 🎯





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

Description	Size	Cat. No.
lgE Calibrator Series	6 x 1 ml	IF2492

Soluble Transferrin Receptor (sTfR) Control and Calibrator Series 👢 🎯 🛊





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

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

Description	Size	Cat. No.
sTfR Control Level 1 & 2	$3 \times 2 \times 1 \text{ ml}$	TF10162
sTfR Calibrator	6 x 1 ml	TF10161

INFECTIOUS DISEASE CONTROLS (SEROLOGY)

The Acusera range of serology controls is designed to deliver a cost effective, high quality solution for the analysis of infectious diseases using our multi-marker controls that cover a wide range of testing. These liquid ready-to-use controls come with an unrivalled 60 day open-vial stability whilst helping laboratories save time and money with added consolidation. Negative controls are also available within our Serology Controls portfolio.

INFECTIOUS DISEASE (SEROLOGY)

Infectious Disease (Serology) Product Range			
Product Description	Size	Cat. No.	Page No.
Anti SARS-CoV-2 Controls	2 x 2 x 4 ml	COV10460	50
EBV Positive Control	1 x 5 ml	SR10350	50
Lyme Disease Negative Control	1 x 5 ml	SR10345	50
Lyme Disease Positive Control	1 x 5 ml	SR10346	50
Serology Negative Control	6 x 5 ml	SR10351	51
Serology I Positive Control	3 x 5 ml	SR10352	51
Serology II Positive Control	3 x 5 ml	SR10353	51
Serology III Positive Control	3 x 5 ml	SR10354	51
ToRCH Negative Control	6 x 5 ml	SR10347	51
ToRCH IgG Positive Control	3 x 5 ml	SR10348	51
ToRCH IgM Positive Control	3 x 5 ml	SR10349	51







enhanced stability





matrix

INFECTIOUS DISEASE (SEROLOGY)

Anti-SARS-CoV-2 Controls



Comprising both reactive and non-reactive controls for SARS-CoV-2 total antibodies, the Acusera range is designed to assess the precision of serological assays for COVID-19. As a true third party control, independent performance assessment is guaranteed.

- Liquid ready-to-use
- 100% human plasma
- Reactive and non-reactive controls available
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days at 2°C to 8°C

Description	Size	Cat. No.
Anti-SARS-CoV-2 Controls	2 x 2 x 4 ml	COV10460

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 as liquid ready-to-use and is suitable for use with most immunoassay analysers.

- Liquid ready-to-use
- Human based serum
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 60 days at 2°C to 8°C
- Suitable for use with most immunoassay analysers

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

Lyme Disease (Borrelia burgdorferi) Control



Analytes

Borrelia burgdorferi IgG

Borrelia burgdorferi IgM

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

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

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

INFECTIOUS DISEASE (SEROLOGY)

Serology Controls



Analytes			
Serology Negative	HBc IgM	Anti-HCV	Anti-HBc
Anti-HAV	HBeĀg	Anti-HIV 1 / 2	Anti-HBe
Anti-HBc	HBsAg	Anti-HTLV 1 / 2	Anti-HBs
Anti-HBe	HIV P24Ag	HBsAg	
Anti-HBs	Treponema pallidum (Syphilis)	Treponema pallidum (Syphilis)	Serology III Positive
Anti-HCV	lgG	lgG	HAV IgM
Anti-HIV 1 / 2		, and the second se	HBc IgM
Anti-HTLV 1 / 2	Serology I Positive	Serology II Positive	
HAV IgM	Anti-HBc	Anti-HAV	

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

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

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

ToRCH Controls



Analytes

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 1 (HSV-1) IgG Herpes Simplex Virus 1 (HSV-1) IgM Herpes Simplex Virus 2 (HSV-2) IgG Herpes Simplex Virus 2 (HSV-2) IgM

Measles IgG

Mumps IgG

ToRCH Negative

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 IgG Herpes Simplex Virus 1 (HSV-1) 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 1 (HSV-1) 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
- Human based serum
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 60 days at 2°C to 8°C
- · Suitable for use with most immunoassay analysers

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

LIPID CONTROLS

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

LIPIDS

Lipid Product Range			
Product Description	Size	Cat. No.	Page No.
Lipid Control Level 1	5 x 1 ml	LE2668	54
Lipid Control Level 2	5 x 1 ml	LE2669	54
Lipid Control Level 3	5 x 1 ml	LE2670	54
Lipid Control Level 1	5 x 3 ml	LE2661	54
Lipid Control Level 2	5 x 3 ml	LE2662	54
Lipid Control Level 3	5 x 3 ml	LE2663	54
Direct HDL/LDL Cholesterol Calibrator (Clearance)	3 x 1 ml	CH2673	54
Apolipoprotein Control Level 1	3 x 1 ml	LE5016	55
Apolipoprotein Control Level 2	3 x 1 ml	LE5017	55
Apolipoprotein Control Level 3	3 x 1 ml	LE5018	55
Apolipoprotein Calibrator	3 x 1 ml	LP3023	55
Apolipoprotein Calibrator 2	3 x 1 ml	LP5047	55
Lipoprotein (a) Control Level 3	3 x 1 ml	LP3406	55
Lipoprotein (a) Calibrator Series	5 x 1 ml	LP3404	55
sLDL Control Level 1	3 x 1 ml	LE5013	56
sLDL Control Level 2	3 x 1 ml	LE5014	56
sLDL Control Level 3	3 x 1 ml	LE5015	56
sLDL Calibrator	3 x 1 ml	CH5050	56













Analytes Apolipoprotein A-1 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

Size	Cat. No.
5 x 1 ml	LE2668
5 x 1 ml	LE2669
5 x 1 ml	LE2670
5 x 3 ml	LE2661
5 x 3 ml	LE2662
5 x 3 ml	LE2663
	5 x 1 ml 5 x 1 ml 5 x 1 ml 5 x 3 ml 5 x 3 ml

Direct LDL/HDL Cholesterol Calibrator & 🌡 🎯 🛉





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

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

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

LIPIDS

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

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

Lipoprotein (a) Control and Calibrator &







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

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

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

LIPIDS

sLDL Control and Calibrator 👢 🎯 🛉



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

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

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

SPECIALITY AND RESEARCH CONTROLS

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

Speciality and Research Product Range			
Product Description	Size	Cat. No.	Page No.
Antimicrobial Control II	3 x 1 ml	AMC5035	59
Antimicrobial Control III	3 x 1 ml	AMC5036	59
Growth Promoter Control	3 x 1 ml	GP5003	59
Adhesion Molecules Tri-Level Control	3 x 3 x 1 ml	EV3569	60
Adhesion Molecules Calibrator Series	9 x 1 ml	EV3568	60
Cerebral Array II Tri-Level Control	3 x 3 x 0.5 ml	CBB5009	60
Cytokine Array I Tri-Level Control	3 x 3 x 1 ml	CY5006	61
High Sensitivity Cytokine Array Tri-Level Control	3 x 3 x 2 ml	CY5005	61
Cytokine Array Calibrator Series	9 x 1 ml	EV3561	61
Cytokine Array III Tri-Level Control	3 x 3 x 1 ml	CY5012	61
Cytokine Array IV Tri-Level Control	3 x 3 x 1 ml	CY5011	62
Evidence Immunoassay Control	4 x 3 x 5 ml	EV3570	62
Synthetic Steroids Control	3 x 1 ml	EV3709	63
Synthetic Steroids Calibrator	9 x 1 ml	EV3708	63
Metabolic Syndrome Array I Control	3 x 3 x 1 ml	EV3757	63
Metabolic Syndrome Array I Calibrator	9 x 1 ml	EV3756	63
Metabolic Syndrome Array II Control	3 x 3 x 1 ml	EV3761	64
Metabolic Syndrome Array II Calibrator	9 x 1 ml	EV3760	64
Thyroid Total Calibrator Series	9 x 1 ml	EV3555	64
Thyroid Free Calibrator Series	9 x 1 ml	EV3563	64











Antimicrobial Control II &



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

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

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

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

Antimicrobial Control III &



Analytes			
AHD AMOZ	AOZ	Chloramphenicol	Semicarbazine (SEM)

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

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

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

Growth Promoter Control &



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

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

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

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

Adhesion Molecules Control and Calibrator 👢 🎯 🛊



Analytes

E-Selectin (E-SEL) Intercellular Adhesion Molecule-1 (ICAM-1) 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 x 1 ml	EV3568

Cerebral Array II Control 👢 🎯 🛉



Analytes

CRP 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	$3 \times 3 \times 0.5 \text{ ml}$	CBB5009

Cytokine Array I and High Sensitivity Cytokine Array I Controls and Calibrator & 🌡 🎯 🛉





Epidermal Growth Factor (EGF) Interferon g (IFNg) Interleukin- 1α (IL- 1α) Interleukin-1β (IL-1β) Interleukin-2 (IL-2) Interleukin-4 (IL-4)

Interleukin-6 (IL-6) Interleukin-8 (IL-8) Interleukin-10 (IL-10) Monocyte Chemoattractant Protein-1 (MCP-1) Tumour Necrosis Factor α (TNF α) Vascular Endothelial Growth Factor (VEGF)

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

- Lyophilised for enhanced stability
- · Assayed values available for Randox Biochip systems
- 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 x 3 x 2 ml	CY5005
Cytokine Array Calibrator Series	9 x 1 ml	EV3561

Cytokine Array III Control 👢 🎯 🛊



Analytes

GM-CSF Interleukin-5 (IL-5)

Interleukin-15 (IL-15) Macrophage Inflammatory Protein-1 α (MIP-1 α)

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

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

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

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

Evidence Immunoassay Control & © †



	Analy	ytes	
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
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C or 28 days at -20°C

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

Synthetic Steroids Control and Calibrator 👢 🍥



	Analy	tes	
17β-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 x 1 ml	EV3709
Synthetic Steroids Calibrator	9 x 1 ml	EV3708





Metabolic Syndrome Array I Control and Calibrator 👢 🎯 🛉

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

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

- 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 x 1 ml	EV3756

Metabolic Syndrome Array II Control and Calibrator 👢 🎯 🛊



	Analytes	
Adiponectin	CRP	Cystatin C

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

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

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

Thyroid Total Calibrator 👢 🎯 🛉



	Analytes	
T3 (Total)	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
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C and 28 days at -20°C

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

Thyroid Free Calibrator 👢 🎯 🛉



	Analytes	
T3 (Free)	T4(Free)	TSH

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

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

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

THERAPEUTIC DRUG CONTROLS

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

THERAPEUTIC DRUG

Therapeutic Drug P	roduct Range		
Product Description	Size	Cat. No.	Page No.
Therapeutic Drug Control Level 1	20 x 5 ml	HD1667	67
Therapeutic Drug Control Level 2	20 x 5 ml	HD1668	67
Therapeutic Drug Control Level 3	20 x 5 ml	HD1669	67
Therapeutic Drug Calibrator	6 x 3 ml	TD3417	67









Lyophilised for enhanced stability



Assayed target values provided



100% human matrix

THERAPEUTIC DRUG

Therapeutic Drug Control 👢 🎯 🛉



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

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

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

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

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 6 therapeutic drug assays on clinical chemistry analysers. An extended stability of 28 days will help to reduce waste and costs.

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

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

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	70	
Drugs of Abuse Array 1 Plus (Urine) Controls	4 x 2 x 1 ml	EV3745	70	
Drugs of Abuse Array 1 Plus (Urine) Calibrators	9 x 1 ml	EV3744	70	
Drugs of Abuse Array 1 Plus (Whole Blood) Controls	4 x 2 x 1 ml	EV3750	70	
Drugs of Abuse Array 1 Plus (Whole Blood) Calibrators	9 x 1 ml	EV3749	70	
Drugs of Abuse Array II (Urine) Controls	4 x 2 x 1 ml	EV3657	70	
Drugs of Abuse Array II (Whole Blood) Controls	4 x 2 x 1 ml	EV3682	70	
Drugs of Abuse Array II (Urine) Calibrator Series	9 x 1 ml	EV3656	70	
Drugs of Abuse Array II (Whole Blood) Calibrator Series	9 x 1 ml	EV3687	70	
Drugs of Abuse Array III (Urine) Control	4 x 2 x 1 ml	EV3830	71	
Drugs of Abuse Array III (Urine) Calibrator Series	9 x 1 ml	EV3829	71	
Drugs of Abuse Array III (Whole Blood) Control	4 x 2 x 1 ml	EV3794	71	
Drugs of Abuse Array III (Whole Blood) Calibrator Series	9 x 1 ml	EV3797	71	
Drugs of Abuse Array IV (Urine) Control	4 x 2 x 1 ml	EV3835	71	
Drugs of Abuse Array IV (Urine) Calibrator Series	9 x 1 ml	EV3834	71	
Drugs of Abuse Array IV (Whole Blood) Control	4 x 2 x 1 ml	EV3809	71	
Drugs of Abuse Array IV (Whole Blood) Calibrator Series	9 x 1 ml	EV3808	71	
Drugs of Abuse Array V (Urine) Control	4 x 2 x 1 ml	EV3814	72	
Drugs of Abuse Array V (Urine) Calibrator Series	9 x 1 ml	EV3815	72	
Drugs of Abuse Array V (Whole Blood) Control	4 x 2 x 1 ml	EV3848	72	
Drugs of Abuse Array V (Whole Blood) Calibrator Series	9 x 1 ml	EV3847	72	











Lyophilised for enhanced stability



Assayed target values provided



100% human matrix

Ethanol Calibrator/Control Set &



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

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

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

Drugs of Abuse Array 1 Plus Controls and Calibrators 👢 🎯





	Analy	tes	
Amphetamine Barbiturates Benzodiazepine 1 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 1 Plus (Urine) Controls	4 x 2 x 1 ml	EV3745
Drugs of Abuse Array 1 Plus (Urine) Calibrators	9 x 1 ml	EV3744
Drugs of Abuse Array 1 Plus (Whole Blood) Controls	4 x 2 x 1 ml	EV3750
Drugs of Abuse Array 1 Plus (Whole Blood) Calibrators	9 x 1 ml	EV3749

Drugs of Abuse Array II Controls and Calibrators 👢 🎯



	Anal	ytes	
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 11 analytes.

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

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

TOXICOLOGY

Drugs of Abuse Array III Controls and Calibrators 👢 🍥





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

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

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

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





Drugs of Abuse Array IV Controls and Calibrators 👢 🍥

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Creatinine Dextromethorphan Escitalopram Fluoxetine

Haloperidol Ibuprofen Methylphenidate 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
- 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 x 1 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 1 ml	EV3808

TOXICOLOGY

Drugs of Abuse Array V Controls and Calibrators &



Analytes

Bath Salts 1 Bath Salts 2 Benzylpiperazines

Mescaline Phenylpiperazines Salvinorin

Synthetic Cannabinoids 1 Synthetic Cannabinoids 2 Synthetic Cannabinoids 3 Synthetic Cannabinoids 4

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 x 1 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 1 ml	EV3847

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	75
Assayed Urine Control Level 3	12 x 10 ml	AU2353	75
Liquid Urine Control Level 2	10 x 10 ml	UC5074	75
Liquid Urine Control Level 3	10 x 10 ml	UC5075	75
Urinalysis Control Level 1	12 x 12 ml	UC5033	76
Urinalysis Control Level 2	12 x 12 ml	UC5034	76
Microalbumin Calibrator Series	6 x 2 ml	MA1567	76







Lyophilised for enhanced stability



Assayed target values provided



100% human matrix

URINE

Assayed Urine Control 👢 🎯 🛉



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

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

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

Description	Size	Cat. No.	
Assayed Urine Control Level 2	12 x 10 ml	AU2352	
Assayed Urine Control Level 3	12 x 10 ml	AU2353	*No claims are made regarding stability.

Liquid Urine Control 6 1



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

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

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

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



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

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

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

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

Microalbumin Calibrator 🕻 🎯 🛉



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

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

Description	Size	Cat. No.
Microalbumin Calibrator Series	6 x 2 ml	MA1567

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 40 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 Markers
- Clinical Chemistry
- Coagulation and Haematology
- Diabetes and Whole Blood
- Immunoassay
- Immunology/Proteins
- Infectious Disease (Serology)
- Lipids
- Tumour Markers
- Therapeutic Drugs and Toxicology
- Urine Chemistry
- 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

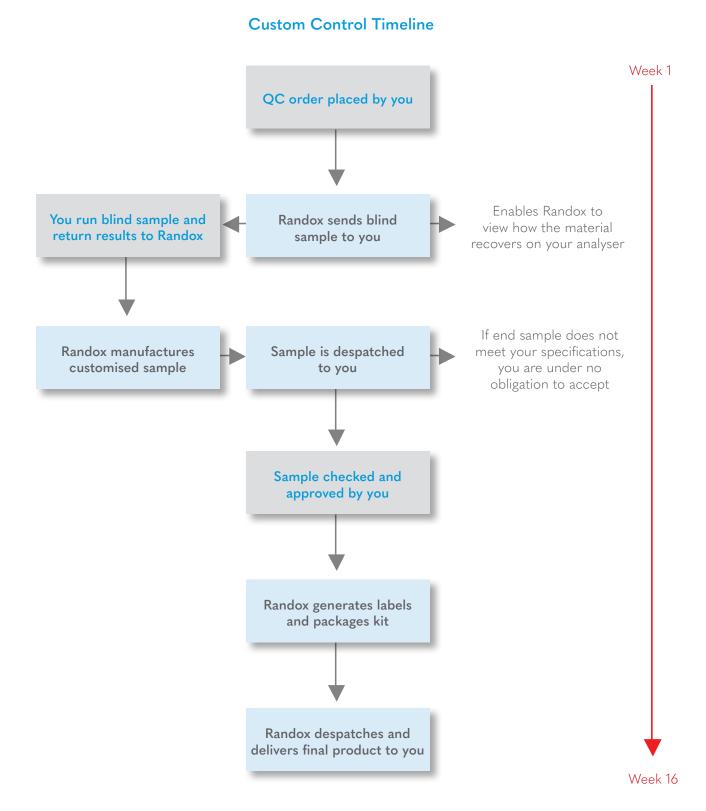
Quality

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



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.

WHAT IS ACUSERA 24.7?

ACUSERA

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.

FEATURES



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

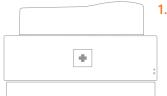
The Statistical Metrics Report incorporates %Bias, Total Error and a Sigma score for optimum QC strategy design while the Uncertainty of Measurement Report helps to meet ISO15189:2012 requirements.

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.



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.



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

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

OPTIONS FOR PARTICIPATION

Randox offers several options for participation in the Acusera 24.7 program ranging from basic to advanced user options. The table below is designed to help determine the best solution for your laboratory.

FEATURES		PLATINUM	GOLD	SILVER				
Global Peer Data								
Access to real-time peer group data		✓	✓	✓				
Users								
Multiple levels of user access		✓	✓	×				
Unlimited number of registered users		✓	×	×				
Configuration								
Custom Multi-Rules		✓	×	×				
Ability to use other manufacturer controls or o	custom controls	✓	×	×				
Data Entry								
Data import via Acusera 24•7 Connect *		✓	✓	✓				
Manual data entry by panel		✓	✓	×				
Semi automated data entry via EDI		✓	✓	✓				
Recording of instrument events		✓	×	×				
Result History								
Automatic calculation of Mean, SD and %CV		✓	✓	✓				
Result History		✓	✓	✓				
Automatic calculation of %Bias and Total Error		✓	✓	×				
Automatic calculation of Inter-Precision, Sigma Measurement and Expanded Uncertainty	Scores, Uncertainty of	✓	×	×				
Reports								
Statistical Analysis Report		✓	✓	✓				
Peer Group Statistics Report		✓	✓	✓				
Exception Report		✓	✓	×				
Statistical Metrics Report		✓	×	×				
Uncertainty of Measurement Report		✓	×	×				
Charts								
Levey-Jennings Chart		✓	✓	✓				
Histogram Chart		✓	✓	✓				
Performance Summary Chart		✓	✓	✓				
Multi-Levey Jennings/Histogram Charts		✓	✓	×				
Utilities								
Dashboard		✓	✓	×				
Audit Trail		✓	×	×				
Advisor Tool		✓	×	×				
Data Review		✓	✓	✓				
ORDERING DETAILS								
Description	Cat. No.	Description		Cat. No.				
Acusera 24 • 7 Platinum (1 - year licence)	QC4218	Acusera 24•7 Connect		QC4227				
Acusera 24.7 Gold (1 - year licence)	QC10232	Acusera 24•7 Cloud Co	onnect	QC4228				
Acusera 24 • 7 Silver (1 - year licence)	QC10233	Installation of Randox C	QC4229					
Acusera 24•7 Configuration/Mapping	QC4224	Installation of Customer	QC4230					
Acusera 24 • 7 Training (on-site)	QC4225	Installation of Customer	QC4231					
Acusera 24•7 Training (remote)	QC4226	Acusera 24•7 End User Cloud Connect* QC4232						



Bias%

In Acusera 24.7, Bias is the difference between the Peer Group Mean and the observed value.



Coefficient of Variation Index (CVI)

The CVI compares the precision from your laboratory to the precision of other laboratories in your chosen peer group.

$$CVI = \frac{Laboratory CV}{Peer Group CV}$$



Standard Deviation Index (SDI)

SDI provides an indication of how well your Mean compares to the Peer Group Mean for a given assay and control lot.



Total Error (TE)

Total Error represents the overall error in a test result that is attributed to imprecision (%CV) and inaccuracy (Bias%).

$$TE = Bias\% + (1.96 \times \%CV)$$



Sigma

Sigma looks at the number of standard deviations (SD) or 'sigmas' that fit within the quality specifications of the process. In the laboratory, the quality specifications relate to the Total Allowable Error (TEa). The higher the number of standard deviations that fit between these limits, the higher the sigma score and the more robust the process or method is.



Uncertainty of Measurement (UM)

With every result generated in the laboratory, there will always be a degree of error. Uncertainty of Measurement (UM) looks at the doubt that exists for the result of any measurement.

$$u = \sqrt{A^2 + B^2}$$

$$U = 2 \times U$$

$$U = 2 \times U$$

$$Where:$$

$$A = SD \text{ or SEM of the Intra-assay precision}$$

$$U = Standard \text{ Uncertainty}$$

$$U = Expanded \text{ Uncertainty}$$

EXTERNAL QUALITY ASSESSMENT

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

FEATURES AND BENEFITS

Randox International Quality Assessment Scheme RIQAS

RIQAS is the largest international EQA scheme, used by more than 55,000 laboratory participants in over 134 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

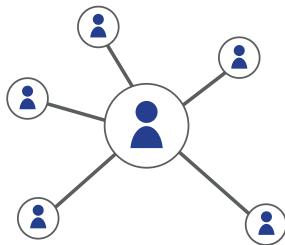
- Frequent reporting allows early identification of system errors and implementation of any necessary corrective actions with minimum disruption to the lab.
- With a turnaround of less than 72 hours for most reports, corrective action can be taken immediately reducing the time spent performing expensive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



STANDARD REPORT

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



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

Ammonia/Ethanol Programme With target scoring



RQ9164 (2 ml)

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

Ethanol

Anti-TSH Receptor Programme+ With target scoring



1 Parameter

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

Anti-TSH Receptor (TRAb)

Blood Gas Programme With target scoring



RQ9134 (1.8 ml) RQ9134/A (1.8 ml) First registered instrument Subsequent instruments 11 Parameters 11 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription

Bicarbonate CO₂(Total) Ca++ Cl-Glucose Lactate

Na+ рСО, pH pO₂

BNP Programme+ With target scoring



RQ9165 (1 ml)

1 Parameter

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

RNP

Cardiac Programme With target scoring



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

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

CK-MB (Mass) Myoglobin Troponin T CK-MB (Activity) Troponin I

Cardiac Plus Programme With target scoring



RQ9190 (3 ml) 11 Parameters

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

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

Cerebrospinal Fluid Programme+ With target scoring



RQ9168 (3 ml) 7 Parameters

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

Albumin Glucose Sodium Protein (Total) Chloride lgG



Coagulation Programme With target scoring



RQ9135/a (1 ml) RQ9135/b (1 ml) 5 Selected parameters only + 1 pilot Full 16 Parameters + 1 pilot (aPTT, PT, TT, Fibrinogen, Antithrombin III)
Samples every month, 1 x 12 month cycle, 12 month subscription

D-dimer* PT (including INR) Factor II Factor V Fibrinogen Factor VII Factor VIII Antithrombin III

Factor IX Factor X Factor XI Factor XII Plasminogen

Protein C Protein S

CO-Oximetry Programme+



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

Carboxyhaemoglobin (COHb / HbCO) Deoxyhaemoglobin (HHb)

Methaemoglobin (MetHb) Oxygen Content (O2CT)

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

Total Haemoglobin (tHb)

CYFRA 21-1 Programme+



RQ9175 (1 ml) 1 Parameter

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

CYFRA 21-1 (Cytokeratin 19)

Cytokines Programme+ 🦶



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

Epidermal Growth Factor (EGE)* Interleukin - 1 alpha (IL-1a)* Interleukin – 1 beta (IL-1β)* Interleukin - 2 (IL-2)

Interleukin - 4 (II -4)* Interleukin - 6 (IL-6) Interleukin - 8 (IL-8) Interleukin - 10 (IL-10)* Interferon gamma (INF-Y)* Monocyte Chemoattractant Protein -1 (MCP-1)* Tumour Necrosis Factor alpha (TNF-α)* Vascular Endothelial Growth Factor (VEGF)*

ESR Programme+



RQ9163 (4.5 ml)

2 samples per quarterly distribution, 1 x 12 month cycle, 12 month subcription

ESR (Erythrocyte Sedimentation Rate)

ACE (Angiotensin Converting Enzyme)

General Clinical Chemistry Programme With target scoring



RQ9112/b (5 ml) RQ9112/a (5 ml) RQ9112/c (5 ml) RQ9128 (5ml) 10 Parameters + 4 pilots 17 Parameters + 4 pilots Full 52 Parameters + 4 pilots Full 52 Parameters + 4 pilots Samples every month, 1 x 12 monthly cycle, 12 month subscription Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription, reference method values

Acid Phosphatase (Prostatic) Acid Phosphatase (Total) Albumin Alkaline Phosphatase ALT (ALAT) Amylase (Pancreatic) Amylase (Total) AST (ASAT) Bicarbonate Bile Acids Bilirubin (Direct) Bilirubin (Total) Calcium

Calcium, Adjusted* Calcium (Ionised) Chloride Cholesterol Cholinesterase CK, Total (CPK) Copper Creatinine D-3-Hvdroxvbutvrate eGFR (estimated glomerular filtration rate)* Fructosamine GLDH Glucose

HBDH HDL-Cholesterol Iron Lactate LD (LDH) IDI-Cholesterol* Lipase Lithium Magnesium NEFA Non-HDL Cholesterol* 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 (HbA1c) With target scoring

RQ9129 (0.5ml)

2 Parameters

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

Haematocrit (HCT)

Cortisol

Total Haemoglobin

Haematology Programme With target scoring



RQ9118 (2 ml) RQ9140 (2ml) 11 Parameters Samples every 2 weeks, 2×6 monthly cycles, 12 month subscription

Haemoglobin (Hb) (MCHC)

Mean Cell Volume (MCV) Mean Cell Haemoglobin (MCH)

11 Parameters

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

Mean Platelet Volume (MPV) Red Blood Cell Count (RBC) Platelets (PLT) Red Cell Distribution Width (RDW) Plateletcrit (PCT) Total White Blood Cell Count (WBC)

Protein (Total)

25-OH-Vitamin D

Sodium

Uric Acid

Urea

VMA

5-HIAA

Human Urine Programme With target scoring



RQ9115 (10 ml) 25 Parameters

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

RQ9185 (10ml) 25 Parameters

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

ACR. Creatinine Normetanephrine Albumin/Microalbumin Magnesium Dopamine Amylase Epinephrine Osmolality Calcium Glucose Chloride Metanephrine Phosphate (Inorganic) Copper Norepinephrine Potassium

Mean Cell Haemoglobin Concentration

Immunoassay Programme With target scoring



RQ9125/b (5 ml) RQ9130 (5 ml) RO9125/a (5 ml) RO9125/c (5 ml) 13 Parameters only + 2 pilots Full 49 Parameters + 2 pilots Full 49 Parameters + 2 pilots 4 Parameters only + 2 pilots Samples every month, 1 x 12 month Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c) cycle, 12 month subscription RQ9130)

ACTH DHEA-Sulphate 17-OH-Progesterone T₄ (Free) T₄ (Total) DHEA Unconjugated Paracetamol Aldosterone Digoxin Phenobarbital Testosterone (Free)* Amikacin Ferritin Phenytoin Testosterone (Total) Androstenedione Folate Progesterone Theophylline β -2-Microglobulin FSH Prolactin Thyroglobulin TSH CA125 PSA (Free) Gentamicin CA15-3 GH PSA (Total) Valproic Acid CA19-9 hCG Vancomycin Carbamazepine lgE Salicylate Vitamin B12 CEA Insulin SHBĠ 1-25-(OH)₂-Vitamin D*

Immunoassay Speciality 1 Programme With target scoring

Oestradio

IΗ



T₃ (Free) T₃ (Total)

Cortisol

C-Pentide

9 Parameters + 1 pilot

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

1-25-(OH),-Vitamin D* Anti-TG Osteocalcin 25-OH-Vitamin D Anti-TPO Procalcitonin C-Peptide

Immunoassay Speciality 2 Programme With target scoring



RQ9142 (1 ml) 5 Parameters

Gastrin

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

Procalcitonin Plasma Renin Activity Renin (Direct Concentration) Calcitonin





Immunosuppressant Programme+

RQ9159 (2 ml)

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

Tacrolimus

Lipid Programme With target scoring

RQ9126/b (3 ml)

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

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

Maternal Screening Programme With target scoring



RO9137 (1 ml) 6 Parameters

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

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

Neonatal Bilirubin Programme+



RQ9191 (3 ml)

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

Direct Bilirubin Total Bilirubin

Serology (Anti-SARS-CoV-2) Programme+

RQ9193 (0.5 ml)

3 Parameters

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

lgΜ Total Antibodies

Serology (EBV) Programme+



RQ9153 (1 ml) 3 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

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

Serology (HIV-Hepatitis) Programme+



RQ9151 (1.8 ml)

16 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-CMV (Total) Anti-HBc IgM* Anti-HAV lgM* Anti-HBe (Total)* Anti-HIV-2 Anti-HTLV combined Anti-HAV (Total)* Anti-HBs (Total)* Anti-HIV combined HBsAg Anti-HBc Anti-HCV Anti-HTLV I P24*

Serology (Syphilis) Programme+

RQ9154 (1 ml)

1 Parameter

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

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





91

Serology (ToRCH) Programme+

RQ9152 (1 ml) 15 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-HSV2 IgG Anti-Toxoplasma IgG Anti-CMV IgM Anti-HSV2 IgM Anti-Mumps IgG* Anti-Toxoplasma IgM Anti-HSV1 lgG Anti-HSV1/2 IgG Anti-Rubella IgG Anti-VZV IgG* Anti-HSV1 IgM Anti-HSV1/2 IgM Anti-Rubella IgM

Serum Indices Programme+

RQ9194 (1 ml) RQ9194/A (1 ml) 3 Indices Assessments 25 Parameters Samples Bi-Monthly (9 samples per distribution), 2 distributions per cycle

Indices Assessment (Quantitative and Semi-Quantitative)

Haemolysis Lipaemic

Parameter Assessment (Quantitative)

ALP Cholesterol Lactate Sodium CK NAC LDH AIT Triglycerides AST Creatinine Lipase Urea Bilirubin (Direct) GGT Uric Acid Magnesium Bilirubin (Total) Glucose Phosphate Calcium HDL Potassium Chloride Protein (Total) Iron

Specific Proteins Programme With target scoring



26 Parameters 26 Parameters Samples every 2 weeks, 2×6 monthly cycles, 12 month subscription Samples every month, 1×12 monthly cycle, 12 month subscription β -2-Microglobulin lgΑ Lambda Light Chain (Total) IgE Albumin Ceruloplasmin Prealbumin (Transthyretin)

Complement C₃ IgG IgM lpha-1-Acid glycoprotein Retinol Binding Protein α-1-Antitrypsin Complement C Rheumatoid Factor α-2-Macroglobulin C-Reactive Protein Kappa Light Chain (Free) Transferrin Kappa Light Chain (Total) Anti Streptolysin O Ferritin Lambda Light Chain (Free) Antithrombin III Haptoglobin

Sweat Testing Programme+

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

Chloride Conductivity

Therapeutic Drugs Programme With target scoring

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

Amikacin Ethosuximide Phenobarbital Tobramycin Caffeine Gentamicin Phenytoin Valproic Acid

Salicylic Acid Ciclosporin Digoxin Paracetamol (Acetaminophen) Theophylline

Lithium

Trace Elements In Blood Programme+

RQ9172 (3 ml)

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

Zinc Coppe Lead Manganese lodine Magnesium Selenium



Carbamazepine



Primidone

Vancomycin

Trace Elements In Serum Programme+



Zinc

Phenobarbital

Secobarbital

RQ9170 (3 ml) 10 Parameters

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

Copper Manganese Chromium lodine Cobalt Selenium Lead

Trace Elements In Urine Programme+



RQ9171 (3 ml) 11 Parameters

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

Nickel Cadmium Copper Magnesium Manganese Molybdenum Thallium Chromium lodine Cobalt Lead

Urinalysis Programme With scoring



RQ9138 (12 ml) 14 Parameters

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

Specific Gravity Galactose Leucocytes Bilirubin Glucose Nitrite Urobilinogen hCG На Blood Creatinine Ketones Protein

Urine Toxicology Programme+



RQ9139 (5 ml) 20 Parameters

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

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

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

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

CALIBRATION VERIFICATION SETS

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

WHAT IS ACUSERA VERIFY?

ACUSERA 🙋 VERIEY

Our 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

Consolidation

 Reduce costs, storage space and the number of individual products required to cover your test menu with our comprehensive, multi-analyte Calibration Verifiers.

Format

• Many of our samples are provided in a user-friendly, liquid format significantly reducing preparation time and the risk of pipetting errors.

Clinically Relevant Levels

• Specifically designed to challenge the complete Analytical Measuring Range (AMR), helping to ensure accurate and reliable instrument performance. A minimum of 5 levels eliminates the need for manual dilution and allows for more comprehensive assessment than the minimum requirement of 3 levels set by CLIA.

Instrument Dedicated

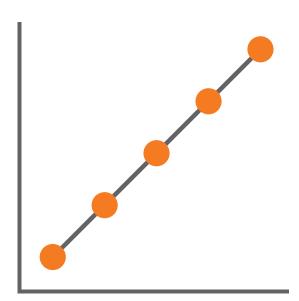
• Help to ensure specific instrument requirements are met with the availability of dedicated solutions for Roche Cobas and Beckman systems.

Stability

• An extended open vial stability keeps waste to a minimum and ensures availability of product for troubleshooting.

Data Reduction Software

Complimentary data reduction software is provided delivering an immediate indication of performance.



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

Apolipoprotein A-1 (Apo A-1) & Apolipoprotein B (Apo B) Linearity Verifier (Roche Cobas)

Analytes

Apolipoprotein A-1 (Apo A-1)

Apolipoprotein B (Apo B)

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

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

DescriptionSizeCat. No.Apolipoproteins Linearity Verifier5 x 3 mlLV10357

Bilirubin Linearity Verifier (Roche Cobas)

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 spans five levels ensuring the instruments entire reportable range is measured.

- Lyophilised for enhanced stability
- 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

DescriptionSizeCat. No.Bilirubin Linearity Verifier5 x 3 mlLV10356

C-Reactive Protein (CRP) Linearity Verifiers (Roche Cobas)

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 1 mlLV10334

Clinical Chemistry Linearity Verifier (Roche Cobas)

	Ana	alytes	
Albumin BUN Calcium Chloride Cholesterol (Total)	Creatinine Glucose Iron Lactate Lithium	Magnesium Phosphate Potassium Protein (Total) Sodium	Triglycerides Uric Acid

This Chemistry verifier for use on Roche Cobas analysers, comes in a liquid frozen format. Designed to objectively verify calibration of the instrument, the five levels available span the complete measuring range.

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

Description Size Cat. No. Clinical Chemistry Linearity Verifier $5 \times 5 \text{ ml}$ LV10390

CO₂ and Electrolytes Linearity Verifier (Roche Cobas)

	An	alytes	
CO ₂	Sodium	Potassium	Chloride

Dedicated Linearity Verifier for the measurment of CO₂ and electrolytes on Roche Cobas analysers. This verifier is supplied in a liquid ready-to-use format and can be used to objectively verify calibration of the instrument. Five levels are available spanning the instrument's complete reportable range.

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

Cat. No. Description $5 \times 5 \text{ ml}$ LV10362 CO₂ and Electrolytes Linearity Verifier

Enzyme Linearity Verifier (Roche Cobas)

	Analyte	es	
ALT	Amylase (Pancreatic)	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 use with Roche Cobas systems, our Verifier is available in a convenient liquid frozen format.

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

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

Esoterics Linearity Verifier (Roche Cobas)

	Analytes	
Acetaminophen	Ethanol	Protein (Urinary)
Ammonia	Microalbumin	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 Verifier5 x 3 mlLV10336

High Sensitivity C-Reactive Protein (hsCRP) Linearity Verifier (Roche Cobas)

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

DescriptionSizeCat. No.hsCRP Linearity Verifier5 x 1 mlLV10335

Lipids Linearity Verifier (Roche Cobas)

	Ana	lytes	
Cholesterol (HDL)	Cholesterol (LDL)	Cholesterol (Total)	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 Verifier5 x 3 mlLV10344

Rheumatoid Factor (RF) Linearity Verifier (Roche Cobas)

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 1 mlLV10343

Therapeutic Drug Monitoring (TDM) Linearity Verifier (Roche Cobas)

Analytes

Phenytoin Theophylline Acetaminophen Gentamicin Procainamide Amikacin Lithium Tobramycin N-Acetylprocainamide Carbamazepine Valproic Acid Quinidine 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 Verifier5 x 5 mlLV10355

SOLUTIONS FOR BECKMAN ANALYSERS

Apolipoprotein A-1 (Apo A-1) & Apolipoprotein B (Apo B) Linearity Verifier (Beckman Coulter)

Analytes

Apolipoprotein A-1

Apolipoprotein B

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

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

DescriptionSizeCat. No.Apolipoproteins Linearity Verifier5 x 3 mlLV10363

Lipids Linearity Verifier (Beckman Coulter)

Analytes

Cholesterol (HDL) Cholesterol (LDL) Triglycerides

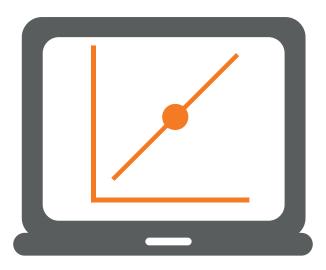
Our Lipids Linearity Verifier comprises 3 common lipid assays and is specifically designed for use on Beckman Coulter analysers. Five levels are available spanning the instrument's complete reportable range. Designed in a liquid frozen format, this linearity verifier will objectively verify calibration 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 Verifier5 x 3 mlLV10364

DATA REDUCTION SOFTWARE

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



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

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

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

Find out more at www.randoxqc.com

ANALYTE

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.

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Specific Protein Calibrator (Requires Pre-dilution) CRP Controls and Calibrator	CSF Control	Liquid CSF Control	β-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	sTfR Control and Calibrator Series	Anti SARS-CoV-2 Controls	Epstein Barr Virus (EBV) Control	Lyme Disease (Borrelia burgdorferi) Control	Serology Controls	ToRCH Controls	Lipid Control	Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Array II Control	Cytokine Array Controls and Calibrator Series	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array 1 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	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Microalbumin Calibrator		
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ln	ımı	unology/Protein Controls	Glutathione Peroxidase (Ransel) Control and Calibrato	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Cardiac Control	Tri-I evel Cardiac Control	T income	CK-MB Control and Calibrator	Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Liquid Bilirubin Control	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Serum Indices Control	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Maternal Screening Control	Specific Protein Control
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	+	\dashv								\vdash										×											+					^	^		Stanozolol	
	$^{+}$																			x																			Stilbenes	
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	T																														\vdash			х					Synthetic Cannabinoids (1 to 4)	
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Ant	ioxidant Controls	1	88	80	80	98	= 7	<u>†</u> 4	15	15	18	19	20	77	22	23	23	24	24	54	25	25	25	97	29	32	32	32	33	36	36	37	88	39	39	40	40	43	43
Blo	od Gas Controls		Calibrato								_			control																									
Car	diac Controls		Control and Ca	ibrator	ontrol						Control	ontrol	Contro	n Plus C	_	E,										ies.			tor	ıtrol			0						
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Coa	agulation & Haematology ntrols	:	ansel) C	Control and Calibrator	(Ransc	s Cont		10		alibrato	emiun	lium P	minm	try Pre	yed C	ibrator	trol	Calibra	_	Ε			Calibrator			librato			and Calibrator	emiun-		Cont	Plus (y I Cor	y II Co	_	ontrol	-0	ator
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	nunoassay Controls		ne Pero	ne Redu	de Dis	tioxida	as Con	Cardi	T Cor	Control	Chem	hemist	Chemi	ssayed	hemist	Chemis	a Ethar	Contr	lirubin	Elevat	Contr	ntrol a	ne Con	ndices	ology C	ontrol	bA1c C	Conti	mine C	ounuu	ıtrol	assay P	assay P	assay S	assay S	Marker	Scree	Proteir	Proteir
lmn	nunology/Protein Controls		Glutathione	Glutathione Reductase	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Blood Gas Control	Tri-Level Cardiac Control	Troponin T Control	CK-MB Control and Calibrator	Precision Chemistry Premium Plus	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Liquid Bilirubin Control	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and	Serum Indices Control	Haematology Control	HbA1c Control and Calibrator	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator
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tion)						_					-	trol										tor		Corios	200		r	tors		_		Drugs of Abuse Array 1 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	V Controls and Calibrators					Infectious Disease Cor (Sero	ntrols logy
Specific Protein Calibrator (Requires Pre-dilution)						, Immunoglobulin Liquid Protein Calibrator						Control				ator	tors	tor				Adhesion Molecules Control and Calibrator					Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators		Therapeutic Drug Control and Calibrator		d Cali	Calik	Cali	Cali	J Cali					Lipid Cor	ntrols
quires F					ator	Cali		eries		-	<u>5</u> 2	Lyme Disease (Borrelia burgdorferi)				Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator				nd C		Outoking Array Controls and Colibrator	- 2	_	Cal	ndC		Calii		ols an	s and	ls and	ols and	olsano					Speciality & Research Cor	ntrols
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RANDOX - A GLOBAL DIAGNOSTIC SOLUTIONS PROVIDER

Randox has been supplying laboratories worldwide with revolutionary diagnostic solutions for over 40 years. Our experience and expertise allow us to create a leading product portfolio of high quality diagnostic tools which offer reliable and rapid diagnosis. We believe that by providing laboratories with the right tools, we can improve healthcare worldwide.

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

NOTES	













