ACUSERA

THIRD PARTY CONTROLS



RAND©X



ACUSERA

True third party controls offering complete test menu consolidation

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BENEFITS

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

Quality Control is our passion; we believe in producing high quality material that can help streamline procedures, whilst saving time and money for laboratories of all sizes and budgets. With an extensive product offering comprising third party quality controls & calibrators, interlaboratory data management, external quality assessment, and calibration verification, 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 45,000 laboratory participants in 124 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 32 flexible EQA programmes, utilising the available data to ensure the quality and reliability of their results.

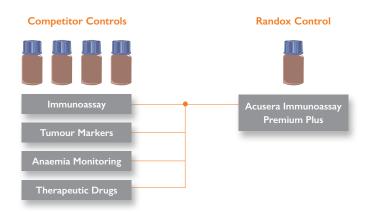
CONSOLIDATION

Consolidate and Save with Randox Acusera

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

How can consolidating with Randox Acusera benefit you?

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

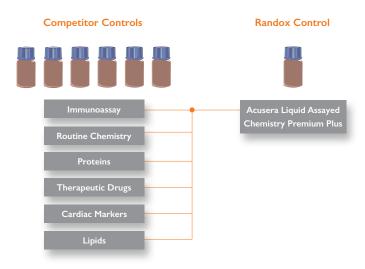


Immunoassay Premium Plus Control

Impressively covering 54 analytes including tumour markers, therapeutic drugs and routine immunoassay tests, the Acusera Immunoassay Premium Plus control has been uniquely designed to eliminate the need for four or more controls, dramatically reducing costs and time. The added advantage of ultra-low levels of Ferritin, Vitamin B12 and TSH will help to ensure accurate performance at key decision levels and further reduce the number of controls required. - turn to page 44 for more information

Liquid Assayed Chemistry Premium Plus Control

Uniquely combining up to 99 analytes including; routine chemistry, immunoassays, lipids, therapeutic drugs, proteins and cardiac markers in a single vial, you can experience effective consolidation and significant cost savings. The presence of CRP and other proteins at elevated levels will not only help to ensure accurate instrument performance at key decision levels but further reduce the number of individual controls required. - turn to page 26 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 2003, Randox was accredited with

ISO 13485:2003 approval.

ISO 13485:2003 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.

ISO 13485:2003 highlights the requirements for a quality management system where an organisation needs to prove its ability to provide medical devices and other related services that consistently meet regulatory requirements.

FDA Cleared

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



CE Mark

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

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

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

Canadian Medical Device Regulations from Health Canada

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



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

iize	C-6 NI-	
	Cat. No.	Page No.
0 x 5 ml	GR2608	8
0 x 5 ml	GR2609	8
0 x l ml	SC692	8
0 x l ml	SC10154	8
0 x l ml	SD126	8
0 x 5 ml	NX2331	9
0 x l ml	NX2615	9
0	0 x 5 ml 0 x 1 ml 0 x 1 ml 0 x 1 ml 0 x 1 ml	x 5 ml



Liquid ready-to-use









Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

ANTIOXIDANTS

Glutathione Reductase Control and Calibrator 👢 🎯



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

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

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

Glutathione Peroxidase (Ransel) Control and Calibrator 👢 🍥





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

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

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

Superoxide Dismutase (Ransod) Control 👢 🍥



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

- · Lyophilised for enhanced stability
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of I0 days at 2°C to 8°C

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

ANTIOXIDANTS

Total Antioxidant Status (TAS) Control and Calibrator 👢 🍥



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

Control

- Lyophilised for enhanced stability
- ${}^{\bullet}$ Stable to expiry date at 2°C to 8°C
- \bullet Reconstituted stability of 2 days at 2°C to 8°C or 12 hours at 15°C to 25°C

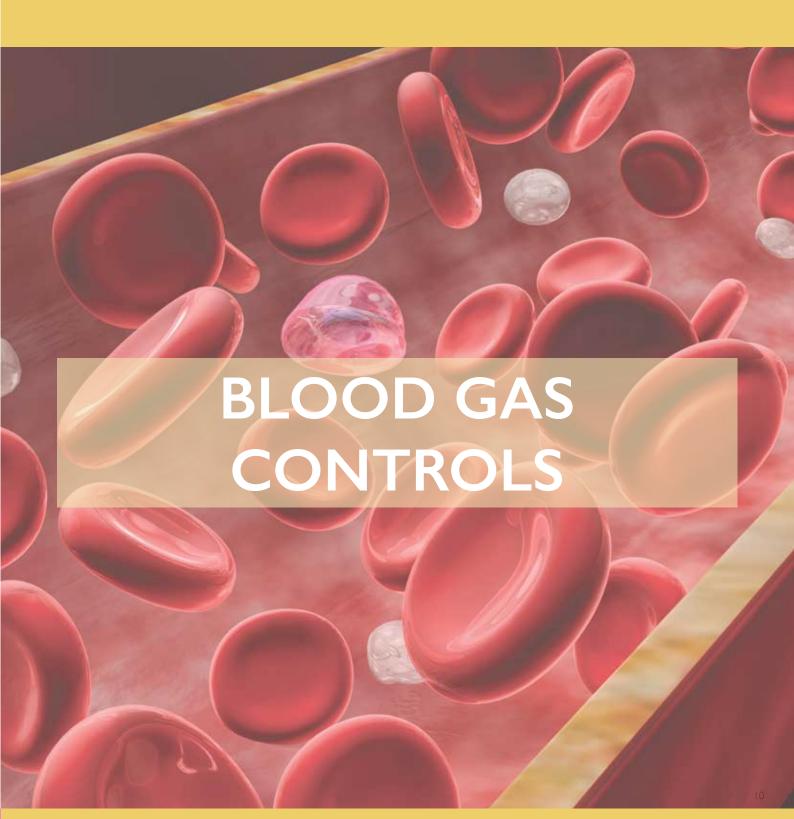
Calibrator

- · Lyophilised for enhanced stability
- Approximately 1.5 mmol/l
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 2 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Total Antioxidant Status Control	$10 \times 5 \text{ ml}$	NX2331
Total Antioxidant Status Calibrator	$10 \times 1 \text{ m}$	NX2615

ACUSERA @

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	12	
Blood Gas Control Level 2	30 x 1.8 ml	BG5002	12	
Blood Gas Control Level 3	30 x 1.8 ml	BG5003	12	











Liquid ready-to-use

Assayed target values provided

BLOOD GAS

Blood Gas Control 6 @



	Ana	lytes	
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.

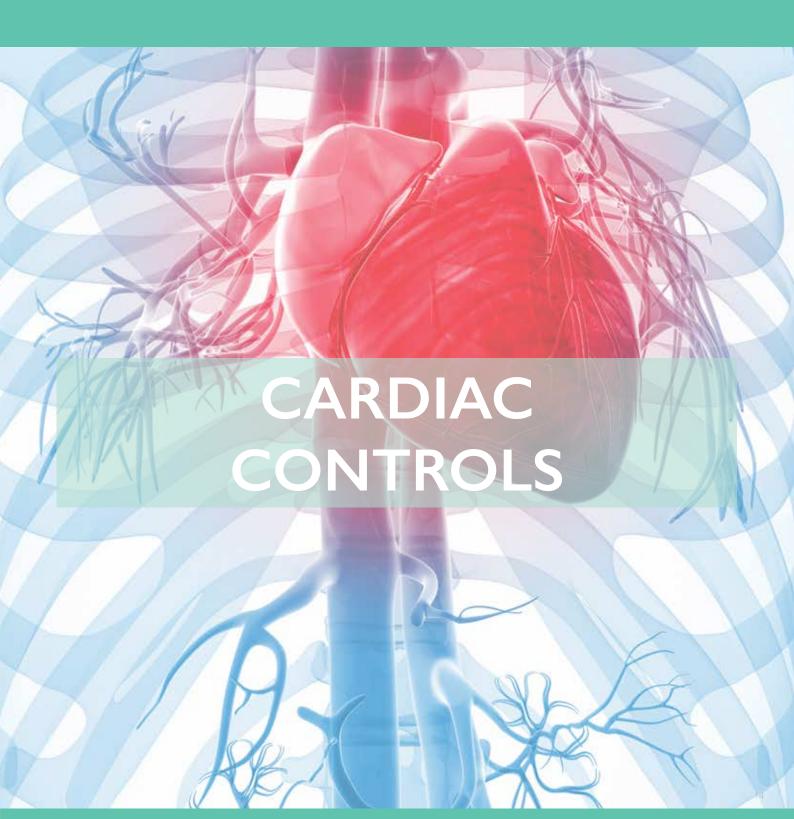
- · Liquid ready-to-use
- Aqueous material
- Stable to expiry date at 2°C to 8°C
- Once opened, controls should be analysed within I minute for pH and blood gas analytes; for electrolyte measurements, the control should be analysed within I hour of opening

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

BLOOD GAS



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. Available in a choice of both liquid ready-to-use and lyophilised formats, they are ideal for use at the point-of-care and in the laboratory. Manufactured from 100% human serum, a matrix similar to that of the patient sample is guaranteed.



CARDIAC

Cardiac Product Range				
Product Description	Size	Cat. No.	Page No.	
Tri-Level Cardiac Control	3 x l ml	CQ3100	16	
Tri-Level Cardiac Control	3 x 2 ml	CQ3259	16	
Liquid Cardiac Control Level I	3 x 3 ml	CQ5051	16	
Liquid Cardiac Control Level 2	3 x 3 ml	CQ5052	16	
Liquid Cardiac Control Level 3	3 x 3 ml	CQ5053	16	
Liquid BNP Control (Beckman Access / Beckman DxI) Level I	3 x l ml	CQ5133	16	
Liquid BNP Control (Beckman Access / Beckman DxI) Level 2	3 x l ml	CQ5134	16	
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 3	3 x l ml	CQ5135	16	
Liquid BNP Control (Abbott Architect) Level I	3 x l ml	CQ5136	16	
Liquid BNP Control (Abbott Architect) Level 2	3 x l ml	CQ5137	16	
Liquid BNP Control (Abbott Architect) Level 3	3 x l ml	CQ5138	16	
Liquid BNP Control (Siemens Advia Centaur) Level I	3 x l ml	CQ5139	16	
Liquid BNP Control (Siemens Advia Centaur) Level 2	3 x l ml	CQ5140	16	
Liquid BNP Control (Siemens Advia Centaur) Level 3	3 x l ml	CQ5141	16	
Myoglobin Calibrator Series	4 x l ml	MY2456	17	
CK-MB Control	10 x 2 ml	CK1212	17	
CK-MB Calibrator	10 x 1 ml	CK2393	17	
High Sensitivity Troponin T Control	3 x 3 ml	CQ5080	17	
H-FABP Control Level I	3 x l ml	FB4026	17	
H-FABP Control Level 2	3 x l ml	FB4027	17	
H-FABP Calibrator Series	6 x l ml	FB3134	17	











Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided





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

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

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

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



Analytes					
CK-MB (Mass)	Digoxin	Myoglobin	Troponin I		
D-dimer	hsCRP	NT-proBNP	Troponin T		

A comprehensive control designed for use in the routine monitoring of accuracy and precision. Assayed instrument specific target values and ranges are provided for 8 cardiac markers on a wide range of chemistry, immunoassay & POCT instruments, eliminating the need to spend time assigning target values inhouse. The convenient liquid ready-to-use format will dramatically reduce preparation time, while an open vial stability of 30 days for all analytes will minimise waste and reduce costs. Three individual levels are available spanning the complete clinical range, helping to ensure accurate performance at key decision levels.

- · Liquid ready-to-use
- 100% human serum
- Suitable for use in POC testing
- 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 Cardiac Control Level I	$3 \times 3 \text{ ml}$	CQ5051
Liquid Cardiac Control Level 2	$3 \times 3 \text{ ml}$	CQ5052
Liquid Cardiac Control Level 3	$3 \times 3 \text{ ml}$	CQ5053

Liquid BNP Controls



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

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

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

CARDIAC

Myoglobin Calibrator Series 👢 🎯



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

- · Lyophilised for enhanced stability
- · Prepared from purified human Myoglobin in a stabilised matrix
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 30 days at 2°C to 8°C or 6 months at -20°C

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

CK-MB Control and Calibrator 👢 🎯 🛉





Analytes		
CK-MB (Activity)	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 2°C to 8°C or 28 days at -20°C

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

High Sensitivity Troponin T Control & © †





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

- · Lyophilised for enhanced stability
- 100% human serum
- Very low Troponin T levels around 14.5ng/I (0.0145ng/ml)
- Stable to expiry at 2°C to 8°C
- Reconstituted stability of 5 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
High Sensitivity Troponin T Control	$3 \times 3 \text{ ml}$	CO5080

Heart Type Fatty Acid Binding Protein (H-FABP) Control and Calibrator Set & 🌡 🎯 🛊





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

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

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



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, premium/premium plus 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	20
recision Chemistry Premium Plus Level 3	20 x 5 ml	UE1558	20
iquid Chemistry Premium Level 2	12 x 5 ml	LUN5048	21
iquid Chemistry Premium Level 3	12 x 5 ml	LUE5049	21
iquid Chemistry Premium Plus Level I	12 x 5 ml	LUL5069	22
iquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070	22
iquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071	22
iquid Chemistry Premium Plus Level I	12 x 10 ml	LUL5093	22
iquid Chemistry Premium Plus Level 2	12 x 10 ml	LUN5094	22
iquid Chemistry Premium Plus Level 3	12 x 10 ml	LUE5095	22
ssayed Chemistry Premium Plus Level 2	20 x 5 ml	HN1530	23
assayed Chemistry Premium Plus Level 3	20 x 5 ml	HE1532	23
ssayed Chemistry Premium Plus Level 2 & 3	2 x 5 x 5 ml	HS2611	23
Chemistry Premium Level 2	12 x 5 ml	HN5067	24
hemistry Premium Level 3	12 x 5 ml	HE5068	24
iquid Assayed Chemistry Premium Level 2	12 x 5 ml	LAN4216	25
iquid Assayed Chemistry Premium Level 3	12 x 5 ml	LAE4217	25
iquid Assayed Chemistry Premium Plus Level I	12 x 5 ml	LAL4213	26
iquid Assayed Chemistry Premium Plus Level 2	12 x 5 ml	LAN4214	26
iquid Assayed Chemistry Premium Plus Level 3	12 x 5 ml	LAE4215	26
Bovine Chemistry Assayed Level I	20 x 5 ml	AL1027	27
Sovine Chemistry Assayed Level 2	20 x 5 ml	AN1026	27
ovine Chemistry Assayed Level 3	20 x 5 ml	AE1032	27
Bovine Chemistry Precision Level I	20 x 5 ml	SL1084	28
Bovine Chemistry Precision Level 2	20 x 5 ml	SN1085	28
Sovine Chemistry Precision Level 3	20 x 5 ml	SE1086	28
Clinical Chemistry Calibration Serum Level 2	20 x 5 ml	CAL2350	29
Clinical Chemistry Calibration Serum Level 3	20 x 5 ml	CAL2351	29
Ammonia Ethanol Control Level I	6 x 2 ml	EA1366	29
Ammonia Ethanol Control Level 2	6 x 2 ml	EA1367	29
Ammonia Ethanol Control Level 3	6 x 2 ml	EA1368	29
Aldolase Calibrator	3 x I ml	AD5000	30
Aldolase Control Level 2	3 x l ml	AD5001	30
Aldolase Control Level 3	3 x l ml	AD5002	30
Bilirubin Elevated Serum	10 x 3 ml	BE454	30
iquid Bilirubin Control Level I	3 x 3 ml	BR10172	30
iquid Bilirubin Control Level 2	3 x 3 ml	BR10173	30
Glycerol Control	3 x 5 ml	GY1369	30
1ulti Calibrator	3 x 2 ml	MC1382	31
1ulti Control Level I	5 x 2 ml	MC1379	31
1ulti Control Level 2	5 x 2 ml	MC1380	31
1ulti Control Level 3	5 x 2 ml	MC1381	31
Glutamine Control Level I	5 x 5 ml	GM1376	31
Silutamine Control Level 2	5 x 5 ml	GM1377	31
Glutamine Control Level 3	5 x 5 ml	GM1378	31
Slutamine Calibrator	3 x 5 ml	GM1375	31
xB Cardio Control Level I	3 x 3 ml	TXB5125	31
xB Cardio Control Level 2	3 x 3 ml	TXB5126	31
TXB Cardio Control Level 3	3 x 3 ml	TXB5127	31
TxB Cardio Calibrator Series	6 x 3 ml	TXB3132	31
• .	3 x 100 ml	.,	











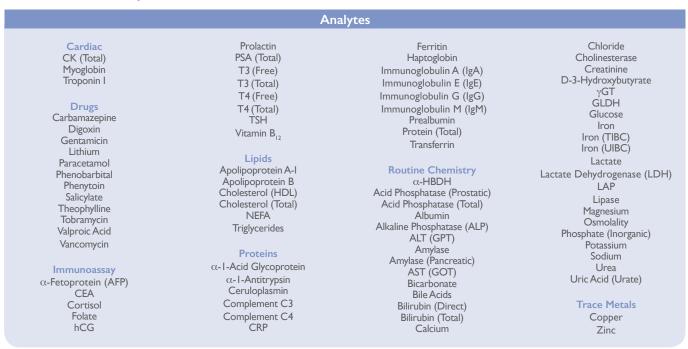
Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

Precision Chemistry Premium Plus Control



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 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Precision Chemistry Premium Plus Level 2	$20 \times 5 \text{ ml}$	UN 1557
Precision Chemistry Premium Plus Level 3	$20 \times 5 \text{ ml}$	UE1558
Serum Diluent	$20 \times 5 \text{ ml}$	MS5007

Liquid Chemistry Premium Control



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

Containing 92 analytes, our Liquid Chemistry Premium control covers, routine chemistry, immunoassays, therapeutic drugs, cardiac markers and more, making it perfect for consolidation and cost savings. Supplied in a convenient liquid format for ease-of-use; minimal preparation is required. As an unassayed, true third party control it is designed for use in the routine monitoring of precision and is suitable for use with all major instruments and methodologies.

- Liquid for ease-of-use
- Human based serum
- Stable to expiry date at -20°C to -70°C
- Open vial stability of 7 days at 2°C to 8°C
- Typical values provided for all analytes

Description	Size	Cat. No.
Liquid Chemistry Premium Level 2	$12 \times 5 \text{ ml}$	LUN5048
Liquid Chemistry Premium Level 3	$12 \times 5 \text{ ml}$	LUE5049

Liquid Chemistry Premium Plus Control



Analytes			
			Dil A . I
Cardiac	Immunoassay	Proteins	Bile Acids
CK (Total)	α-Fetoprotein (AFP)	α-I-Acid Glycoprotein	Bilirubin (Direct)
Myoglobin	CEA	α-I-Antitrypsin	Bilirubin (Total)
Troponin T	Cortisol	β-2-Microglobulin	Calcium
	DHEA Sulphate	Ceruloplasmin	Chloride
Drugs	Folate	Complement C3	Cholinesterase
Amikacin	FSH	Complement C4	Creatinine
Caffeine	Growth Hormone (GH)	CRP	D-3-Hydroxybutyrate
Carbamazepine	hCG	Ferritin	γGT
Digoxin	Luteinising Hormone (LH)	Haptoglobin	GLDH
Ethanol	Progesterone	Immunoglobulin A (IgA)	Glucose
Gentamicin	Prolactin	Immunoglobulin E (IgE)	Iron
Lithium	Testosterone	Immunoglobulin G (IgG)	Iron (TIBC)
Paracetamol	T Uptake	Immunoglobulin M (IgM)	Iron (UIBC)
Phenobarbital	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
	12	Acid Phosphatase (Prostatic)	Phosphate (Inorganic)
Electrophoresis	Lipids	Acid Phosphatase (Total)	Potassium
α-I-Globulin	Apolipoprotein A-I	Albumin	Sodium
α -2-Globulin	Apolipoprotein B	Alkaline Phosphatase (ALP)	Urea
Albumin	Cholesterol (HDL)	ALT (GPT)	Uric Acid (Urate)
β-Globulin	Cholesterol (LDL)	Amylase	,
γ-Globulin	Cholesterol (Total)	Amylase (Pancreatic)	Trace Metals
,	Lipoprotein (a)	AST (GOT)	Copper
	Triglycerides	Bicarbonate	Zinc

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

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

Size	Cat. No.
12 x 5 ml	LUL5069
12 x 5 ml	LUN5070
12 x 5 ml	LUE5071
12 x 10 ml	LUL5093
$12 \times 10 \text{ ml}$	LUN5094
12 × 10 ml	LUE5095
	$12 \times 5 \text{ ml}$ $12 \times 5 \text{ ml}$ $12 \times 5 \text{ ml}$ $12 \times 10 \text{ ml}$ $12 \times 10 \text{ ml}$

Assayed Chemistry Premium Plus Control &





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

One of our most popular controls, the Acusera Assayed Chemistry Premium Plus Control, combines a comprehensive 70 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 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Assayed Chemistry Premium Plus Level 2	$20 \times 5 \text{ ml}$	HN1530
Assayed Chemistry Premium Plus Level 3	$20 \times 5 \text{ ml}$	HE1532
Assayed Chemistry Premium Plus Level 2 & 3	$2 \times 5 \times 5$ ml	HS2611
Serum Diluent	$20 \times 5 \text{ ml}$	MS5007

Chemistry Premium Control &



Analytes				
Cardiac	Immunoglobulin M (IgM)	AST (GOT)	Lactate	
CK (Total)	Protein (Total)	Bilirubin (Direct)	Lactate Dehydrogenase (LDH)	
` '	Transferrin	Bilirubin (Total)	LAP	
Drugs		Calcium	Lipase	
Lithium	Routine Chemistry	Chloride	Magnesium	
	α-HBDH	Cholinesterase	Phosphate (Inorganic)	
Lipids	Acid Phosphatase (Prostatic)	Creatinine	Potassium	
Cholesterol	Acid Phosphatase (Total)	γGT	Sodium	
Triglycerides	Albumin	GLDH	Urea	
	Alkaline Phosphatase (ALP)	Glucose	Uric Acid (Urate)	
Proteins	ALT (GPT)	Iron		
Immunoglobulin A (IgA)	Amylase	Iron (TIBC)		
Immunoglobulin G (lgG)	Amylase (Pancreatic)	Iron (UIBC)		

Our Chemistry Premium control is designed for use in the routine monitoring of accuracy and precision. As a true third party control, assayed target values and ranges are provided for the most common methods. Combining a total of 40 analytes including routine chemistry and proteins, this control will contribute to effective consolidation and cost savings in any laboratory.

- · 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 or 28 days at -20°C

Description	Size	Cat. No.
Chemistry Premium Level 2	$12 \times 5 \text{ ml}$	HN5067
Chemistry Premium Level 3	$12 \times 5 \text{ ml}$	HE5068
Serum Diluent	$20 \times 5 \text{ml}$	MS5007

Liquid Assayed Chemistry Premium 🐉 🎯



CardiacImmunoassayCeruloplasminCalciumCK (Total)α-Fetoprotein (AFP)Complement C3ChlorideMyoglobinCEAComplement C4CholinesteraseTroponin TCortisolCRPCreatinineFolateFerritinD-3-HydroxybutyrateDrugshCGHaptoglobinγGTCarbamazepineProlactinImmunoglobulin A (IgA)GLDHDigoxinPSA (Total)Immunoglobulin E (IgE)GlucoseEthanolT3 (Free)Immunoglobulin G (IgG)IronGentamicinT3 (Total)Immunoglobulin M (IgM)Iron (TIBC)LithiumT4 (Free)PrealbuminLactateParacetamolT4 (Total)Protein (Total)Lactate Dehydrogenase (LDH)PhenobarbitalTSHTransferrinLAPPhenytoinVitamin B12LipaseSalicylateRoutine ChemistryMagnesiumTheophyllineLipidsα-HBDHOsmolality	
CK (Total) α-Fetoprotein (AFP) Complement C3 Chloride Myoglobin CEA Complement C4 Cholinesterase Troponin T Cortisol CRP Creatinine Folate Ferritin D-3-Hydroxybutyrate Drugs hCG Haptoglobin γGT Carbamazepine Prolactin Immunoglobulin A (IgA) GLDH Digoxin PSA (Total) Immunoglobulin E (IgE) Glucose Ethanol T3 (Free) Immunoglobulin G (IgG) Iron Gentamicin T3 (Total) Immunoglobulin M (IgM) Iron (TIBC) Lithium T4 (Free) Prealbumin Lactate Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Routine Chemistry Magnesium	
MyoglobinCEAComplement C4CholinesteraseTroponin TCortisolCRPCreatinineFolateFerritinD-3-HydroxybutyrateDrugshCGHaptoglobinγGTCarbamazepineProlactinImmunoglobulin A (IgA)GLDHDigoxinPSA (Total)Immunoglobulin E (IgE)GlucoseEthanolT3 (Free)Immunoglobulin G (IgG)IronGentamicinT3 (Total)Immunoglobulin M (IgM)Iron (TIBC)LithiumT4 (Free)PrealbuminLactateParacetamolT4 (Total)Protein (Total)Lactate Dehydrogenase (LDH)PhenobarbitalTSHTransferrinLAPPhenytoinVitamin B12Koutine ChemistryMagnesium	
Troponin T Cortisol Folate Folate Ferritin D-3-Hydroxybutyrate Drugs hCG Haptoglobin γGT Carbamazepine Prolactin Digoxin PSA (Total) Immunoglobulin A (IgA) Digoxin Folate Ferritin D-3-Hydroxybutyrate Ferritin P-3-Hydroxybutyrate Fund T GLDH Immunoglobulin A (IgA) GLDH Immunoglobulin E (IgE) Glucose Immunoglobulin G (IgG) Iron Gentamicin T3 (Total) Immunoglobulin M (IgM) Iron (TIBC) Lithium T4 (Free) Prealbumin Lactate Paracetamol Paracetamol Paracetamol T4 (Total) Protein (Total) Protein (Total) Protein (Total) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B Salicylate Routine Chemistry Magnesium	
Folate Ferritin D-3-Hydroxybutyrate Drugs hCG Haptoglobin γGT Carbamazepine Prolactin Immunoglobulin A (IgA) GLDH Digoxin PSA (Total) Immunoglobulin E (IgE) Glucose Ethanol T3 (Free) Immunoglobulin G (IgG) Iron Gentamicin T3 (Total) Immunoglobulin M (IgM) Iron (TIBC) Lithium T4 (Free) Prealbumin Lactate Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Routine Chemistry Magnesium	
Drugs hCG Haptoglobin γGT Carbamazepine Prolactin Immunoglobulin A (IgA) GLDH Digoxin PSA (Total) Immunoglobulin E (IgE) Glucose Ethanol T3 (Free) Immunoglobulin G (IgG) Iron Gentamicin T3 (Total) Immunoglobulin M (IgM) Iron (TIBC) Lithium T4 (Free) Prealbumin Lactate Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Lipase Salicylate Routine Chemistry Magnesium	
Carbamazepine Prolactin Immunoglobulin A (IgA) GLDH Digoxin PSA (Total) Immunoglobulin E (IgE) Glucose Ethanol T3 (Free) Immunoglobulin G (IgG) Iron Gentamicin T3 (Total) Immunoglobulin M (IgM) Iron (TIBC) Lithium T4 (Free) Prealbumin Lactate Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Routine Chemistry Magnesium	
Digoxin PSA (Total) Immunoglobulin E (IgE) Glucose Ethanol T3 (Free) Immunoglobulin G (IgG) Iron Gentamicin T3 (Total) Immunoglobulin M (IgM) Iron (TIBC) Lithium T4 (Free) Prealbumin Lactate Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Routine Chemistry Magnesium	
Ethanol T3 (Free) Immunoglobulin G (IgG) Iron Gentamicin T3 (Total) Immunoglobulin M (IgM) Iron (TIBC) Lithium T4 (Free) Prealbumin Lactate Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Routine Chemistry Magnesium	
Gentamicin T3 (Total) Immunoglobulin M (IgM) Iron (TIBC) Lithium T4 (Free) Prealbumin Lactate Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Lipase Salicylate Routine Chemistry Magnesium	
Lithium T4 (Free) Prealbumin Lactate Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Lipase Salicylate Routine Chemistry Magnesium	
Paracetamol T4 (Total) Protein (Total) Lactate Dehydrogenase (LDH) Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Lipase Salicylate Routine Chemistry Magnesium	
Phenobarbital TSH Transferrin LAP Phenytoin Vitamin B ₁₂ Lipase Salicylate Routine Chemistry Magnesium	
Phenytoin Vitamin B ₁₂ Lipase Salicylate Routine Chemistry Magnesium	
Salicylate Routine Chemistry Magnesium	
Salicylate Routine Chemistry Magnesium	
Theophylline Lipids $lpha$ -HBDH Osmolality	
Valproic Acid Apolipoprotein A-I Acid Phosphatase (Total) Phosphate (Inorganic)	
Vancomycin Apolipoprotein B Albumin Potassium	
Cholesterol (HDL) Alkaline Phosphatase (ALP) Sodium	
Electrophoresis Cholesterol (LDL) ALT (GPT) Urea	
α-I-Globulin Cholesterol (Total) Amylase Uric Acid (Urate)	
α-2-Globulin Lipoprotein (a) Amylase (Pancreatic)	
Albumin Triglycerides AST (GOT) Trace Metals	
β-Globulin Bicarbonate Copper	
γ-Globulin Proteins Bile Acids Zinc	
α -I-Acid Glycoprotein Bilirubin (Direct)	
α-I-Antitrypsin Bilirubin (Total)	

A comprehensive chemistry control designed to reduce the number of individual controls required by combining 90 analytes, including routine chemistry, proteins, therapeutic drugs, lipids, electrophoresis and more. Supplied in a convenient liquid format for ease-of-use, minimal preparation is required. As a true third party control, assayed target values are provided for most major analysers, ensuring unbiased performance assessment.

- Liquid for ease-of-use
- Human based serum
- Assayed instrument specific target values and ranges
- Stable to expiry when stored at -20°C to -70°C
- \bullet Open vial stability of up to 7 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid Assayed Chemistry Premium Level 2	$12 \times 5 \text{ ml}$	LAN4216
Liquid Assayed Chemistry Premium Level 3	$12 \times 5 \text{ ml}$	LAE4217

Liquid Assayed Chemistry Premium Plus Control



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

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

- Liquid for ease-of-use
- Human based serum
- Assayed instrument specific target values and ranges
- High levels of CRP and other proteins eliminate the need for multiple controls
- ${}^{\bullet}$ 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	$12 \times 5 \text{ ml}$	LAL4213
Liquid Assayed Chemistry Premium Plus Level 2	$12 \times 5 \text{ ml}$	LAN4214
Liquid Assayed Chemistry Premium Plus Level 3	$12 \times 5 \text{ ml}$	LAE4215

Bovine Chemistry Assayed Control &



Lipids	ALT (GPT)	Iron (TIBC)
Cholesterol	Amylase	Lactate
NEFA	AST (GOT)	Lactate Dehydrogenase (LDH)
Triglycerides	Bicarbonate	Lipase
<i>.</i>	Bile Acids	Magnesium
Proteins	Bilirubin (Direct)	Osmolality
Protein (Total)	Bilirubin (Total)	Phosphate (Inorganic)
	Calcium	Potassium
Routine Chemistry	Chloride	Sodium
α-HBDH	Creatinine	Urea
Acid Phosphatase (Prostatic)	D-3-Hydroxybutyrate	Uric Acid (Urate)
Acid Phosphatase (Non-Prostatic)	γGT	,
Acid Phosphatase (Total)	GLDH	Trace Metals
Albumin	Glucose	Copper
Alkaline Phosphatase (ALP)	Iron	Zinc
	Cholesterol NEFA Triglycerides Proteins Protein (Total) Routine Chemistry α-HBDH Acid Phosphatase (Prostatic) Acid Phosphatase (Non-Prostatic) Acid Phosphatase (Total) Albumin	Cholesterol Amylase NEFA AST (GOT) Triglycerides Bicarbonate Bile Acids Bile Acids Proteins Bilirubin (Direct) Protein (Total) Bilirubin (Total) Calcium Calcium Chloride Creatinine Acid Phosphatase (Prostatic) D-3-Hydroxybutyrate Acid Phosphatase (Non-Prostatic) γGT Acid Phosphatase (Total) GLDH Albumin Glucose

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 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Bovine Chemistry Assayed Level 1	$20 \times 5 \text{ ml}$	AL1027
Bovine Chemistry Assayed Level 2	$20 \times 5 \text{ ml}$	AN 1026
Bovine Chemistry Assayed Level 3	$20 \times 5 \text{ ml}$	AE1032
Serum Diluent	$20 \times 5 \text{ ml}$	MS5007

Bovine Chemistry Precision Control



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

Covering 43 analytes including Bile Acids, Lactate and D-3-Hydroxybutyrate in a bovine serum matrix, the Acusera Bovine Chemistry Precision Control is ideally suited to veterinary laboratories. As an unassayed, third party control it is suitable for use on a wide range of chemistry systems.

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

Description	Size	Cat. No.
Bovine Chemistry Precision Level I	$20 \times 5 \text{ ml}$	SL1084
Bovine Chemistry Precision Level 2	$20 \times 5 \text{ ml}$	SN 1085
Bovine Chemistry Precision Level 3	$20 \times 5 \text{ ml}$	SE1086
Serum Diluent	$20 \times 5 \text{ ml}$	MS5007

Clinical Chemistry Calibration Serum 👢 🍥



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

Comprising 42 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 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.
Clinical Chemistry Calibration Serum Level 2	$20 \times 5 \text{ ml}$	CAL2350
Clinical Chemistry Calibration Serum Level 3	$20 \times 5 \text{ ml}$	CAL235 I

Ammonia Ethanol Control



Analytes		
Ammonia	Ethanol	

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

- Liquid ready-to-use
- Aqueous material
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 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 ImI vial.

- · Lyophilised for enhanced stability
- Human based 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.
Aldolase Calibrator	$3 \times 1 \text{ ml}$	AD5000
Aldolase Control Level 2	$3 \times 1 \text{ ml}$	AD5001
Aldolase Control Level 3	$3 \times 1 \text{ ml}$	AD5002

Bilirubin Elevated Serum 👢 🌀





	Analytes
Bilirubin (Direct)	Bilirubin (Total)

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

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

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

Liquid Bilirubin Control





Analytes		
Bilirubin (Direct)	Bilirubin (Total)	

Providing a true third party solution for the measurement of Bilirubin, the Acusera Liquid Bilirubin Control is designed to deliver an unbiased, independent assessment of analytical performance. Two levels are available covering the required clinically relevant decision levels for paediatric testing.

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

Description	Size	Cat. No.
Liquid Bilirubin Control Level I	$3 \times 3ml$	BR10172
Liquid Bilirubin Control Level 2	3×3 ml	BR10173

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

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

Multi Control and Calibrator



	An	alytes	
Ammonia	Glucose	Glutamate	Lactate

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

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

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

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

Glutamine Control and Calibrator & 🌡 🎯 🛉





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

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

Description	Size	Cat. No.
Glutamine Control Level 1	$5 \times 5 \text{ ml}$	GM1376
Glutamine Control Level 2	$5 \times 5 \text{ ml}$	GM1377
Glutamine Control Level 3	$5 \times 5 \text{ ml}$	GM1378
Glutamine Calibrator	$3 \times 5 \text{ ml}$	GM1375





Dedicated control and calibrator series for use on clinical chemistry systems to monitor the levels of the urinary metabolite 11dhTXB₂.

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

Description	Size	Cat. No.
TXB Cardio Control Level I	$3 \times 3 \text{ ml}$	TBX5125
TXB Cardio Control Level 2	$3 \times 3 \text{ ml}$	TBX5126
TXB Cardio Control Level 3	$3 \times 3 \text{ ml}$	TBX5127
TXB Cardio Calibrator Series	3×3 ml	TBX3132
TXB Cardio Sample Diluent	$3 \times 100 \text{ ml}$	TBX2814



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



COAGULATION AND HAEMATOLOGY

Coagulation and Haematology Product Range					
Product Description	Size	Cat. No.	Page No.		
Coagulation Control Level I	12 x 1 ml	CG5021	34		
Coagulation Control Level 2	I2 x I ml	CG5022	34		
Coagulation Control Level 3	12 x 1 ml	CG5023	34		
Coagulation Calibrator	10 x 1 ml	CG5037	34		
Haematology Control	3 x 2 x 4.5 ml	HM5162	35		











COAGULATION AND HAEMATOLOGY

Coagulation Control 👢 🎯 🛉



Analytes

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

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

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

Description	Size	Cat. No.
Coagulation Control Level 1	$12 \times 1 \text{ ml}$	CG5021
Coagulation Control Level 2	$12 \times 1 \text{ ml}$	CG5022
Coagulation Control Level 3	$12 \times 1 \text{ ml}$	CG5023

Coagulation Calibrator 👢 🎯 🛉



Analytes

Anti-Thrombin III (AT III)

Fibrinogen

The Acusera multi-analyte Coagulation Calibrator is a true third party calibrator designed for the use in the calibration of the Randox Fibrinogen and Anti-Thrombin III assays.

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

Description	Size	Cat. No.
Coagulation Calibrator	$10 \times 1 \text{ ml}$	CG5037

COAGULATION AND HAEMATOLOGY

Haematology Control 6 🌘 🛉



Analytes

BASO-X BASO -Y Basophils (BASO)* % Basophils (% BASO) DIFF-X DIFF-Y Eosinophils (EOS) % Eosinophils (%EOS) FSC-X Haematocrit (HCT) Haemoglobin (HGB) Haematopoietic Progenitor Cell (HPC) **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 Corpuscular Haemoglobin Concentration (MCHC) Mean Corpuscular Volume (MCV)

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

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

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

Description	Size	Cat. No.
Haematology Control Tri-Level	$3 \times 2 \times 4.5 \text{ ml}$	HM5162

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



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	38
HbA1c Calibrator Series	5 x 2 ml, 1 x 8 ml	HA3444	38
Liquid HbA1c Control Set Level 1 and 2	2 x 2 x 0.5 ml	HA10155	38
G-6PDH Control Deficient	6 x 0.5 ml	PD2617	38
G-6PDH Control Normal	6 x 0.5 ml	PD2618	38
Fructosamine Control Level I	3 x l ml	FR2994	39
Fructosamine Control Level 3	3 x l ml	FR2996	39
Fructosamine Calibrator	3 x l ml	FR2993	39
Haemoglobin F and A2 Control	2 x 2 x 0.2 ml	HA5083	39
Adiponectin Control Level 2	3 x l ml	AO2801	39
Adiponectin Control Level 3	3 x l ml	AO2802	39
Adiponectin Calibrator	4 x l ml	AO2800	39











Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

DIABETES AND WHOLE BLOOD



A	nalytes
Haemoglobin (Total)	HbAIc

The Acusera HbAIc control is designed for use in the quality control of both HbAIc and Total Haemoglobin 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.

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

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

Liquid HbA1c Control



Analytes

%HbA1c

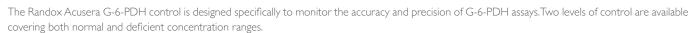
Delivering an assayed QC solution for HbA1c testing, our Acusera Liquid HbA1c control offers a liquid ready-to-use format ideal for both laboratory and POCT testing. Employing our Liquid HbAIc Control in your laboratory could reduce preparation time, whilst the 30 day stability will ultimately minimise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

- · Liquid ready-to-use
- · Human based whole blood
- 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 Set Level 1 and 2	$2 \times 2 \times 0.5$ ml	HA10155

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





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

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

DIABETES AND WHOLE BLOOD

Fructosamine Control and Calibrator



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

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

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

Haemoglobin F & A2 Control

Level I Haemoglobin A2 (HbA2) Haemoglobin F (HbF)



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

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

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

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

Adiponectin Control and Calibrator 🕻 🎯



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

- Liquid ready-to-use
- · Human based serum
- Stable to expiry date at 2°C to 8°C
- ${}^{\circ}$ Once opened stable to expiry date at 2°C to 8°C

Description	Size	Cat. No.
Adiponectin Control Level 2	$3 \times 1 \text{ ml}$	AO2801
Adiponectin Control Level 3	$3 \times 1 \text{ ml}$	AO2802
Adiponectin Calibrator	$4 \times 1 \text{ ml}$	AO2800



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 Pr	oduct Range		
Product Description	Size	Cat. No.	Page No.
Liquid Immunoassay Premium Level I	12 x 5 ml	LIA3105	42
Liquid Immunoassay Premium Level 2	12 x 5 ml	LIA3106	42
Liquid Immunoassay Premium Level 3	12 x 5 ml	LIA3107	42
Liquid Immunoassay Premium Tri-Level	4 x 3 x 5 ml	LIA3108	42
PTH Control Level I	3 x 2 ml	PTH10110	42
PTH Control Level 2	3 x 2 ml	PTH10111	42
PTH Control Level 3	3 x 2 ml	PTH10112	42
Immunoassay Premium Level I	12 x 5 ml	IA2638	43
Immunoassay Premium Level 2	12 x 5 ml	IA2639	43
Immunoassay Premium Level 3	12 x 5 ml	IA2640	43
Immunoassay Premium Tri-Level	4 x 3 x 5 ml	IA2633	43
Immunoassay Premium Plus Level I	12 x 5 ml	IA3109	44
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110	44
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111	44
Immunoassay Premium Plus Tri-Level	4 x 3 x 5 ml	IA3112	44
Immunoassay Speciality I Level I	5 x 2 ml	IAS3113	45
Immunoassay Speciality I Level 2	5 x 2 ml	IAS3114	45
Immunoassay Speciality I Level 3	5 x 2 ml	IAS3115	45
Immunoassay Speciality II Level I	5 x I ml	IAS3117	45
Immunoassay Speciality II Level 2	5 x I ml	IAS3118	45
Immunoassay Speciality II Level 3	5 x I ml	IAS3119	45
Tumour Marker Control Level 2	3 x 2 ml	TU5002	46
Tumour Marker Control Level 3	3 x 2 ml	TU5003	46
Liquid Tumour Marker Control Level I	6 x 3 ml	TU5085	46
Liquid Tumour Marker Control Level 2	6 x 3 ml	TU5086	46
Liquid Tumour Marker Control Level 3	6 x 3 ml	TU5087	46
Maternal Screening Control Level I	3 x I ml	MSS5024	47
Maternal Screening Control Level 2	3 x I ml	MSS5025	47
Maternal Screening Control Level 3	3 x I ml	MSS5026	47











Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

Liquid Immunoassay Premium Control 😺 🎯 🛊





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

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

- Liquid for ease-of-use
- 100% human serum
- Stable to expiry date at -20°C to -70°C
- Open vial stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.	
Liquid Immunoassay Premium Level 1	$12 \times 5 \text{ ml}$	LIA3105	
Liquid Immunoassay Premium Level 2	12 x 5 ml	LIA3106	
Liquid Immunoassay Premium Level 3	$12 \times 5 \text{ ml}$	LIA3107	*No claims are made regarding values or stability.
Liquid Immunoassay Premium Tri-Level	$4 \times 3 \times 5$ ml	LIA3108	*Not for use in the USA.





Intact PTH (Parathyroid Hormone)

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 for ease-of-use
- 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 I	$3 \times 3 \text{ ml}$	PTH10110
PTH Control Level 2	$3 \times 3 \text{ ml}$	PTHIOIII
PTH Control Level 3	$3 \times 3 \text{ ml}$	PTH10112

Immunoassay Premium Control & 🌘 🛊





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

Efficiently combining 5 I 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
- ${}^{\bullet}$ Ferritin and Vitamin ${\rm B_{12}}$ levels suitable for Anaemia monitoring
- ${}^{\bullet}$ TSH levels around 0.11 μ U/ml in the level 1 control
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 7 days at 2°C to 8°C, or up to 28 days at -20°C

Description	Size	Cat. No.	
Immunoassay Premium Level I	$12 \times 5 \text{ ml}$	IA2638	
Immunoassay Premium Level 2	$12 \times 5 \text{ ml}$	IA2639	
Immunoassay Premium Level 3	$12 \times 5 \text{ ml}$	IA2640	*No claims are made regarding values or stability.
Immunoassay Premium Tri-level	$4 \times 3 \times 5$ ml	IA2633	*Values may not be provided for all levels.

Immunoassay Premium Plus Control & 🌘 🛉



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

Impressively covering 54 analytes including tumour markers, therapeutic drugs and routine immunoassay tests, the Acusera Immunoassay Premium Plus control has been uniquely designed to eliminate the need for four or more controls, dramatically reducing costs and time. The added advantage of ultra low levels of Ferritin, Vitamin 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 5 I analytes in this true third party control. Manufactured using 100% human serum, this control is designed to directly mimic a patient sample, reducing costly shifts when reagent batch is changed.

- · Lyophilised for enhanced stability
- 100% human serum
- Ferritin and Vitamin B, levels suitable for Anaemia monitoring
- TSH targets are around 0.11 µU/ml in 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 7 days at 2°C to 8°C or 28 days at -20°C

Description	Size	Cat. No.	
Immunoassay Premium Plus Level I	$12 \times 5 \text{ ml}$	IA3109	
Immunoassay Premium Plus Level 2	$12 \times 5 \text{ ml}$	IA3110	
Immunoassay Premium Plus Level 3	$12 \times 5 \text{ ml}$	IA3111	*No claims are made regarding values or stability.
Immunoassay Premium Plus Tri-Level	$4 \times 3 \times 5$ ml	IA3112	⁺ Values may not be provided for all levels.

Immunoassay Speciality I Control & © †



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

C-Peptide Insulin Insulin Like Growth Factor-I (IGF-I) Intact PTH (Parathyroid Hormone)

Osteocalcin Procalcitonin

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

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

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

Immunoassay Speciality II Control & 🌘 🛉





	Analytes
Calcitonin	Procalcitonin
Gastrin	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, I day at 2°C to 8°C for Procalcitonin and 8 hours at 2°C to 8°C for Gastrin and Calcitonin. Stable for 28 days at -20°C

Description	Size	Cat. No.
Immunoassay Speciality II Level I	$5 \times 1 \text{ ml}$	IAS3117
Immunoassay Speciality II Level 2	$5 \times 1 \text{ ml}$	IAS3118
Immunoassay Speciality II Level 3	$5 \times 1 \text{ ml}$	IAS3119

NSE

PSA (Free)

PSA (Total)

Thyroglobulin

Total β -hCG

Tumour Marker Control & 🌘 🛉



	Analytes	
α -Fetoprotein (AFP)	CA 125	hCG
β-2-Microglobulin	Calcitonin	NSE
CA 15-3	CEA	PSA (Free)
CA 19-9	CYFRA 21-I	PSA (Total)
CA 72-4	Ferritin	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 14 days at 2°C to 8°C

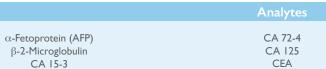
Description	Size	Cat. No.
Tumour Marker Control Level 2	$3 \times 2 \text{ ml}$	TU5002
Tumour Marker Control Level 3	$3 \times 2 \text{ ml}$	TU5003

Liquid Tumour Marker Control 🕻 🎯 🛉

CA 19-9

CA 27-29





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

CYFRA 21-1

Ferritin

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

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

Maternal Screening Control & 🌘 🛉





 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
- $^{\circ}$ Reconstituted stability of 7 days at 2°C to 8°C

Description	Size	Cat. No.
Maternal Screening Control Level 1	$3 \times 1 \text{ ml}$	MSS5024
Maternal Screening Control Level 2	$3 \times 1 \text{ ml}$	MSS5025
Maternal Screening Control Level 3	$3 \times 1 \text{ ml}$	MSS5026

ACUSERA @

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 I	3 x l ml	PS2682	50
Specific Protein Control Level 2	3 x l ml	PS2683	50
Specific Protein Control Level 3	3 x l ml	PS2684	50
Specific Protein Calibrator (Liquid)	5 x l ml	IT2691	50
Specific Protein Calibrator (Liquid)	5 x l ml	IT2692	50
Liquid CRP Control Level 2	I0 x I ml	CP2480	51
Liquid CRP Control Level 3	I0 x I ml	CP2481	51
High Sensitivity CRP Control Level I	I0 x I ml	CP2476	51
High Sensitivity CRP Control Level 2	I0 x I ml	CP2477	51
CRP Calibrator	3 x l ml	CP2179	51
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478	51
CRP Calibrator Series	6 x 2 ml	CP2479	51
CRP Full Range Calibrator	6 x l ml	CP2499	51
Canine CRP Control Level 2	3 x l ml	CP2803	51
Canine CRP Control Level 3	3 x l ml	CP2804	51
CSF Control Level 2	10 x 3 ml	CF1500	51
CSF Control Level 3	10 x 3 ml	CF1501	51
Liquid CSF Control Level I	10 x 3 ml	CF10138	52
Liquid CSF Control Level 2	10 x 3 ml	CF10139	52
ASO Standard	5 x l ml	LO2306	52
β-2-Microglobulin Calibrator	3 x l ml	BM1362	52
Cystatin C Control Level 2	3 x 2 ml	CYS5019	52
Cystatin C Control Level 3	3 x 2 ml	CYS5020	52
Cystatin C Calibrator	5 x 2 ml	CYS2699	52
Immunoglobulin Liquid Protein Calibrator	3 x l ml	IT3861	53
IgE Calibrator Series	6 x I ml	IE2492	53
High Sensitivity IgG Control Level I	5 x 2 ml	IT3982	53
High Sensitivity IgG Control Level 2	5 x 2 ml	IT3983	53
High Sensitivity IgG Control Level 3	5 x 2 ml	IT3984	53
High Sensitivity IgG Calibrator	3 x l ml	IT3899	53
Rheumatoid Factor Calibrator Series	5 x l ml	RF2301	53











Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided



 $\alpha\text{-I-Acid Glycoprotein}$ α -I-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 Kappa Light Chain (Free) Lambda Light Chain

Lambda Light Chain (Free) Prealbumin Protein (Total) Retinol Binding Protein (RBP) Rheumatoid Factor (RF) Transferrin

Covering a unique combination of 27 serum proteins, including; Total & Free 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 & Free Kappa and Lambda Light Chains
- Stable to expiry date at 2°C to 8°C
- Open vial stability of 30 days at 2°C to 8°C

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

Specific Protein Calibrator





		Analy

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

Size Cat. No. Specific Protein Calibrator (Liquid) $5 \times 1 \text{ ml}$ IT2691 FOR USE WITH SAMPLES THAT DO NOT REQUIRE PRE-DILUTION

Specific Protein Calibrator - Requires Pre-dilution



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

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

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

Description Size Cat. No. Specific Protein Calibrator (Liquid) $5 \times 1 \text{ ml}$ IT2692

FOR USE WITH SAMPLES THAT REQUIRE PRE-DILUTION

CRP Controls and Calibrator



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

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

Description	Size	Cat. No.
Liquid CRP Control Level 2	$10 \times 1 \text{ ml}$	CP2480
Liquid CRP Control Level 3	$10 \times 1 \text{ ml}$	CP2481
High Sensitivity CRP Control Level I	$10 \times 1 \text{ ml}$	CP2476
High Sensitivity CRP Control Level 2	$10 \times 1 \text{ ml}$	CP2477
CRP Calibrator	$3 \times 1 \text{ ml}$	CP2179
High Sensitivity CRP Calibrator Series	$6 \times 2 \text{ ml}$	CP2478
CRP Calibrator Series	$6 \times 2 \text{ ml}$	CP2479
CRP Full Range Calibrator	6 x l 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	$3 \times 1 \text{ ml}$	CP2803
Canine CRP Control Level 3	$3 \times 1 \text{ ml}$	CP2804



Analytes			
lpha-1-Globulin (Electrophoresis) $lpha$ -2-Globulin (Electrophoresis) Albumin (Electrophoresis)	$\begin{array}{c} \beta\text{-Globulin (Electrophoresis)} \\ \text{Chloride} \\ \gamma\text{-Globulin (Electrophoresis)} \end{array}$	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 I4 days at 2°C to 8°C

Description	Size	Cat. No.
CSF Control Level 2	$10 \times 3 \text{ ml}$	CF1500
CSF Control Level 3	$10 \times 3 \text{ ml}$	CF1501

Liquid CSF Control 6



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

Chloride γ-Globulin (Electrophoresis) Glucose

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

Protein (Total) Sodium

High Sensitivity Immunoglobulin A (hslgA)*

Microalbumin

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

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

Description	Size	Cat. No.
Liquid CSF Control Level I	$10 \times 3 \text{ ml}$	CF10138
Liquid CSF Control Level 2	$10 \times 3 \text{ ml}$	CF10139

*No claims are made regarding values or stability.

ASO Standard 🕻 🎯 🛉





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

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

Description	Size	Cat. No.
ASO Standard	$5 \times 1 \text{ ml}$	LO2306

β-2-Microglobulin Calibrator $\rlap{\ } \rlap{\ } \rlap{$



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

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

Cystatin C Control and Calibrator





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

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

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

Immunoglobulin Liquid Protein Calibrator



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

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

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

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

IgE Calibrator





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

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

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

High Sensitivity IgG Control and Calibrator



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

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

Size	Cat. No.
$5 \times 2 \text{ ml}$	IT3982
$5 \times 2 \text{ ml}$	IT3983
$5 \times 2 \text{ ml}$	IT3984
$3 \times 1 \text{ ml}$	IT3899
	5 x 2 ml 5 x 2 ml



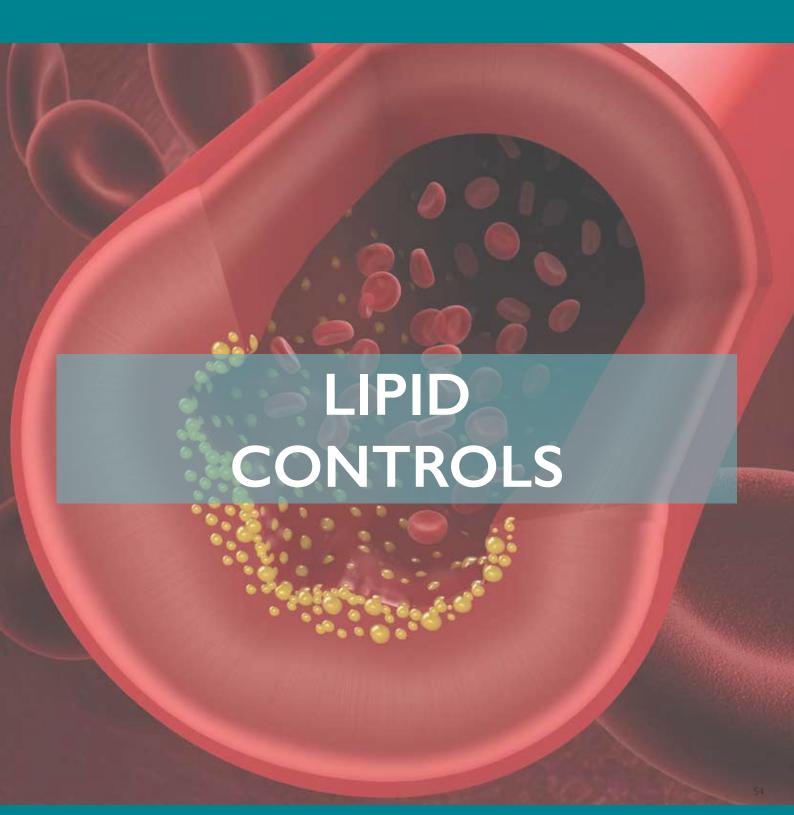
Comprising 5 levels, our RF calibrator series is designed for use in the calibration of RF immunoturbidimetric assays. Supplied in a user-friendly liquid readyto-use format and stable to expiry date, no preparation is required.

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

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



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. As all of our Lipid Controls are lyophilised, they contain no stabilisers or preservatives, which may affect the overall performance of the controls. The multi-analyte controls enable test menu consolidation which, along with a four year shelf life from the date of manufacture, ensures minimal waste and helps to reduce costs.



LIPIDS

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











Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

Lipid Control 👢 🎯 🛉

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

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

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

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

Apolipoprotein Control and Calibrators &





Apolipoprotein Control
Apolipoprotein A-II
Apolipoprotein C-II
Apolipoprotein C-III
Apolipoprotoin E

Apolipoprotein Calibrator Apolipoprotein A-I Apolipoprotein B

Analytes

Apolipoprotein Calibrator 2 Apolipoprotein A-II Apolipoprotein C-II Apolipoprotein C-III Apolipoprotein E

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

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

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

LIPIDS

Direct LDL/HDL Cholesterol Calibrator



Analytes

Cholesterol (HDL) Cholesterol (LDL)

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

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

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



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

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

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

sLDL Control and Calibrator 👢 🎯 🛉



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

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

Size	Cat. No.
$3 \times 1 \text{ ml}$	LE5013
$3 \times 1 \text{ ml}$	LE5014
$3 \times 1 \text{ ml}$	LE5015
$3 \times 1 \text{ ml}$	CH5050
	3 x l ml 3 x l ml 3 x l ml



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 I ml	AMC5035	60
Antimicrobial Control III	3 x l ml	AMC5036	60
Growth Promoter Control	3 x I ml	GP5003	60
Adhesion Molecules Tri-Level Control	3 x 3 x I ml	EV3569	61
Adhesion Molecules Calibrator Series	9 x I ml	EV3568	61
Cerebral Series I Tri-Level Control	3 x 3 x I ml	CAB5008	61
Cerebral Array I Calibrator Series	9 x I ml	EV3625	61
Cerebral Series II Tri-Level Control	3 x 3 x 0.5 ml	CBB5009	61
Cytokine Array I Tri-Level Control	3 x 3 x 1 ml	CY5006	62
High Sensitivity Cytokine Array Tri-Level Control	3 x 3 x 2 ml	CY5005	62
Cytokine Array Calibrator Series	9 x I ml	EV3561	62
Cytokine Array III Tri-Level Control	3 x 3 x I ml	CY5012	62
Cytokine Array III Calibrator Series	9 x I ml	EV3679	62
Cytokine Array IV Tri-Level Control	3 x 3 x I ml	CY5011	63
Cytokine Array IV Calibrator Series	9 x I ml	EV3658	63
Cardiac Array Control	3 x 3 x l ml	EV3691	63
Evidence Immunoassay Control	4 x 3 x 5 ml	EV3570	64
Synthetic Steroids Control	3 x I ml	EV3709	64
Synthetic Steroids Calibrator	9 x I ml	EV3708	64
Metabolic Syndrome Array I Control	3 x 3 x 1 ml	EV3757	65
Metabolic Syndrome Array I Calibrator	9 x I ml	EV3756	65
Metabolic Syndrome Array II Control	3 x 3 x 1 ml	EV3761	65
Metabolic Syndrome Array II Calibrator	9 x I ml	EV3760	65
Thyroid Total Calibrator Series	9 x I ml	EV3555	65
Thyroid Free Calibrator Series	9 x l ml	EV3563	66











Liquid ready-to-use Liquid frozen

Lyophilised for enhanced stability

Antimicrobial Control II &



Analytes

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

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

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

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

Antimicrobial Control III &



	Analytes
AHD AMOZ	Chloramphenicol Semicarbazine (SEM)
A07	

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

Cat. No. Description Size Antimicrobial Control III AMC5036 $3 \times 1 \text{ ml}$

Growth Promoter Control &





Analytes β-Agonists (Clenbuterol) Nandrolone Stanozolol Trenbolone Boldenone Ractopamine Stilbenes 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 $3 \times 1 \text{ ml}$ GP5003

Adhesion Molecules Control and Calibrator 👢 🎯 🛉



Analytes

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

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

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

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

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

Cerebral Series I Control and Calibrator 👢 🎯 🛊



Analytes

Brain Derived Neurotrophic Factor (BDNF) Fatty Acid Binding Protein (FABP)

Glial Fibrillary Acidic Protein (GFAP) Interleukin-6 (IL-6)

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 recombinant material
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 8 hours at 2°C to 8°C or 21 days at -20°C

Description	Size	Cat. No.
Cerebral Series I Tri-Level Control	$3 \times 3 \times 1 \text{ ml}$	CAB5008
Cerebral Array Calibrator Series	9 x m	FV3625

Cerebral Series II Control 👢 🎯 🛉



Analytes

D-dimer Neuron Specific Enolase (NSE)

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

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

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

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

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



Analytes

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

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

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

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

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

Cytokine Array III Control and Calibrator 👢 🎯 🛊



Analytes

GM-CSF Interleukin-5 (IL-5)

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

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

- · Lyophilised for enhanced stability
- · Assayed values available for Randox Biochip systems
- 100% human material
- 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 III Calibrator Series	$9 \times 1 \text{ ml}$	EV3679

Cytokine Array IV Control and Calibrator 👢 🎯 🛊



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
Cytokine Array IV Calibrator Series	9 x m	EV3658

Cardiac Array Control &



Analytes		
CK-MB	Myoglobin	
H-FABP	Troponin I	

Multi-analyte cardiac control designed for use in the routine monitoring of precision on clinical chemistry and immunoassay systems. This is the only control of its type to include the novel marker heart type fatty acid binding protein (H-FABP). Three levels of control are supplied spanning the complete clinical range.

- · 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 16 hours at 2°C to 8°C or 7 weeks at -80°C

Description Size Cat. No. Cardiac Array Control $3 \times 3 \times 1 \text{ ml}$ EV3691

Evidence Immunoassay Control & © †



Analytes				
Progesterone Prolactin PSA (Free)	T3 (Free) T3 (Total) T4 (Free)	Testosterone TSH		
	Progesterone Prolactin	Progesterone T3 (Free) Prolactin T3 (Total) PSA (Free) T4 (Free)		

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

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

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

Synthetic Steroids Control and Calibrator &



Analytes		
l 7β-Clostebol Ethinylestradiol	Gestagens (Generic) Methandriol	Methyltestosterone

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

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

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

Metabolic Syndrome Array I Control and Calibrator & 🌡 🎯 🛉



Analytes

C-Peptide Interleukin- $I\alpha$ (IL- $I\alpha$) Interleukin-6 (IL-6) Ferritin Insulin Leptin

Plasminogen Activator Inhibitor-I Resistin Tumour Necrosis Factor α (TNF α)

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

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

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

Metabolic Syndrome Array II Control and Calibrator & 🌡 🎯 🛉



Analytes		
Adiponectin	CRP	Cystatin C

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

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

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

Thyroid Total Calibrator 👢 🎯 🛉



Analytes		
T3 (Total)	T4 (Total)	TSH

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

- · Lyophilised for enhanced stability
- Assayed values available for Randox Biochip systems
- 100% human material
- 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 × 1 ml	EV3555

Thyroid Free Calibrator & 🌡 🎯 🛉

Analytes		
T3 (Free)	T4 (Free)	TSH

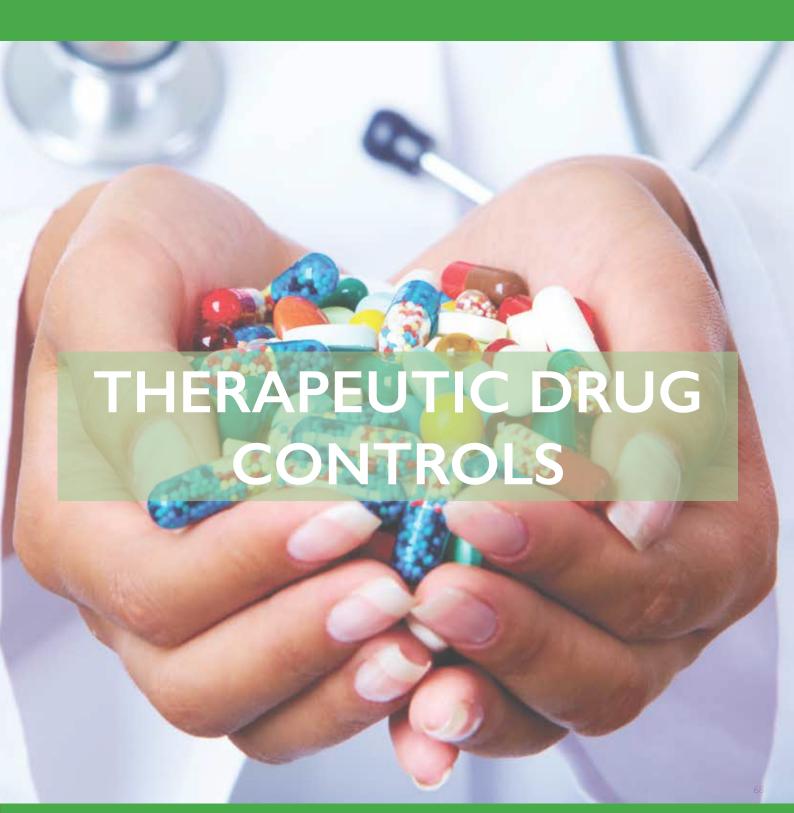
A comprehensive multi analyte calibrator designed for use in the calibration of the Randox Thyroid Free Array on Randox Biochip systems.

- 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

Description	Size	Cat. No.
Thyroid Free Calibrator Series	9 x 1 ml	FV3563



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



THERAPEUTIC DRUG

Therapeutic Drug Product Range			
Product Description	Size	Cat. No.	Page No.
Therapeutic Drug Control Level I	20 x 5 ml	HD1667	70
Therapeutic Drug Control Level 2	20 x 5 ml	HD1668	70
Therapeutic Drug Control Level 3	20 x 5 ml	HD1669	70
Therapeutic Drug Calibrator	6 x 3 ml	TD3417	70











Liquid ready-to-use Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

THERAPEUTIC DRUG

Therapeutic Drug Control & 🌘 🛊





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

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

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

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

Therapeutic Drug Calibrator 👢 🎯 🛉



Analytes			
Carbamazepine Digoxin	Gentamicin Phenobarbital	Phenytoin	Valproic Acid

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

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

Description	Size	Cat. No.
Therapeutic Drug Calibrator	$6 \times 3 \text{ ml}$	TD3417

THERAPEUTIC DRUG



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.



Product Description Size Cat. No. Page No. Drugs of Abuse Array I Plus (Urine) Controls 4 x 2 x l ml E y3745 74 Drugs of Abuse Array I Plus (Whole Blood) Controls 9 x l ml E y3750 74 Drugs of Abuse Array I Plus (Whole Blood) Controls 4 x 2 x l ml E y3750 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x l ml E y3757 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x l ml E y3657 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x l ml E y36582 74 Drugs of Abuse Array II (Oral Fluid) Controls 4 x 2 x l ml E y3656 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x l ml E y3656 74 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x l ml E y3667 74 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x l ml E y3687 74 Drugs of Abuse Array III (Urine) Calibrator Series 9 x l ml E y3829 75 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x l ml E y3829 75 <th colspan="5">Toxicology Product Range</th>	Toxicology Product Range				
Drugs of Abuse Array I Plus (Urine) Calibrators 9 x I ml EV3744 74 Drugs of Abuse Array I Plus (Whole Blood) Controls 4 x 2 x I ml EV3750 74 Drugs of Abuse Array I Plus (Whole Blood) Calibrators 9 x I ml EV3749 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x I ml EV3657 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x I ml EV3682 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x I ml EV3656 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x I ml EV3656 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x I ml EV3667 74 Drugs of Abuse Array III (Oral Fluid) Calibrator Series 9 x I ml EV3687 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x I ml EV3807 75 Drugs of Abuse Array III (Urine) Calibrator Series 9 x I ml EV3829 75 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x I ml EV3829 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3834 75	Product Description	Size	Cat. No.	Page No.	
Drugs of Abuse Array I Plus (Whole Blood) Calibrators 4 x 2 x I ml EV3750 74 Drugs of Abuse Array I Plus (Whole Blood) Calibrators 9 x I ml EV3749 74 Drugs of Abuse Array II (Urine) Controls 4 x 2 x I ml EV3657 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x I ml EV3682 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x I ml EV3656 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x I ml EV3687 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x I ml EV3687 74 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x I ml EV3687 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x I ml EV3830 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x I ml EV3830 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3797 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3834 75 <td>Drugs of Abuse Array I Plus (Urine) Controls</td> <td>4 x 2 x l ml</td> <td>EV3745</td> <td>74</td>	Drugs of Abuse Array I Plus (Urine) Controls	4 x 2 x l ml	EV3745	74	
Drugs of Abuse Array I Plus (Whole Blood) Calibrators 9 x I ml EV3749 74 Drugs of Abuse Array II (Urine) Controls 4 x 2 x I ml EV3657 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x I ml EV3682 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x I ml EV3702 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x I ml EV3656 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x I ml EV3667 74 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x I ml EV3701 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x I ml EV3830 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x I ml EV3794 75 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x I ml EV3797 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x I ml EV3835 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x I ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x I ml EV3808 75 <	Drugs of Abuse Array I Plus (Urine) Calibrators	9 x I ml	EV3744	74	
Drugs of Abuse Array II (Urine) Controls 4 x 2 x I ml EV3657 74 Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x I ml EV3682 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x I ml EV3702 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x I ml EV3656 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x I ml EV3687 74 Drugs of Abuse Array II (Urine) Control 4 x 2 x I ml EV3701 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x I ml EV3830 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x I ml EV3774 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x I ml EV3774 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3774 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x I ml EV3809 75 D	Drugs of Abuse Array I Plus (Whole Blood) Controls	4 x 2 x 1 ml	EV3750	74	
Drugs of Abuse Array II (Whole Blood) Controls 4 x 2 x 1 ml EV3682 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x 1 ml EV3656 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x 1 ml EV3656 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x 1 ml EV3687 74 Drugs of Abuse Array III (Urine) Calibrator Series 9 x 1 ml EV3687 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x 1 ml EV3830 75 Drugs of Abuse Array III (Urine) Calibrator Series 9 x 1 ml EV3829 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x 1 ml EV3794 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3809 75 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3814 76	Drugs of Abuse Array I Plus (Whole Blood) Calibrators	9 x I ml	EV3749	74	
Drugs of Abuse Array II (Oral Fluid) Controls 4 x 2 x 1 ml EV3702 74 Drugs of Abuse Array II (Urine) Calibrator Series 9 x 1 ml EV3656 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x 1 ml EV3687 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x 1 ml EV3701 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x 1 ml EV3830 75 Drugs of Abuse Array III (Urine) Calibrator Series 9 x 1 ml EV3829 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x 1 ml EV3794 75 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x 1 ml EV37977 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x 1 ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3809 75 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3814 76	Drugs of Abuse Array II (Urine) Controls	4 x 2 x 1 ml	EV3657	74	
Drugs of Abuse Array II (Urine) Calibrator Series 9 x I ml EV3656 74 Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x I ml EV3687 74 Drugs of Abuse Array III (Oral Fluid) Calibrator Series 9 x I ml EV3701 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x I ml EV3830 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x I ml EV3829 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x I ml EV3797 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x I ml EV3835 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x I ml EV3835 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x I ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x I ml EV3809 75 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x I ml EV3808 75 Drugs of Abuse Array V (Urine) Calibrator Series 9 x I ml EV3808 75 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x I ml EV3818 76	Drugs of Abuse Array II (Whole Blood) Controls	4 x 2 x 1 ml	EV3682	74	
Drugs of Abuse Array II (Whole Blood) Calibrator Series 9 x I ml EV3687 74 Drugs of Abuse Array III (Oral Fluid) Calibrator Series 9 x I ml EV3701 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x I ml EV3830 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x I ml EV3829 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x I ml EV3794 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x I ml EV3797 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x I ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x I ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x I ml EV3808 75 Drugs of Abuse Array V (Urine) Control 4 x 2 x I ml EV3808 75 Drugs of Abuse Array V (Urine) Calibrator Series 9 x I ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x I ml EV3815 76	Drugs of Abuse Array II (Oral Fluid) Controls	4 x 2 x 1 ml	EV3702	74	
Drugs of Abuse Array II (Oral Fluid) Calibrator Series 9 x 1 ml EV3701 74 Drugs of Abuse Array III (Urine) Control 4 x 2 x 1 ml EV3830 75 Drugs of Abuse Array III (Urine) Calibrator Series 9 x 1 ml EV3829 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x 1 ml EV3794 75 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x 1 ml EV3797 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x 1 ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Urine) Control 4 x 2 x 1 ml EV3814 76 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3818 76	Drugs of Abuse Array II (Urine) Calibrator Series	9 x I ml	EV3656	74	
Drugs of Abuse Array III (Urine) Control 4 x 2 x 1 ml EV3830 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x 1 ml EV3829 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x 1 ml EV3794 75 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x 1 ml EV3797 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x 1 ml EV3835 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3814 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannab	Drugs of Abuse Array II (Whole Blood) Calibrator Series	9 x l ml	EV3687	74	
Drugs of Abuse Array III (Urine) Calibrator Series 9 x 1 ml EV3829 75 Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x 1 ml EV3794 75 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x 1 ml EV3797 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x 1 ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3814 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3128 76 Ecstasy Calibrator Set<	Drugs of Abuse Array II (Oral Fluid) Calibrator Series	9 x I ml	EV3701	74	
Drugs of Abuse Array III (Whole Blood) Control 4 x 2 x 1 ml EV3794 75 Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x 1 ml EV3797 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x 1 ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Urine) Control 4 x 2 x 1 ml EV3814 76 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Control Level I 5 x 5 ml <	Drugs of Abuse Array III (Urine) Control	4 x 2 x 1 ml	EV3830	75	
Drugs of Abuse Array III (Whole Blood) Calibrator Series 9 x 1 ml EV3797 75 Drugs of Abuse Array IV (Urine) Control 4 x 2 x 1 ml EV3835 75 Drugs of Abuse Array IV (Urine) Calibrator Series 9 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Urine) Control 4 x 2 x 1 ml EV3814 76 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Control Level 1 5 x 5 ml	Drugs of Abuse Array III (Urine) Calibrator Series	9 x I ml	EV3829	75	
Drugs of Abuse Array IV (Urine) Calibrator Series 9 x I ml EV3835 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x I ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x I ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x I ml EV3808 75 Drugs of Abuse Array V (Urine) Control 4 x 2 x I ml EV3814 76 Drugs of Abuse Array V (Urine) Calibrator Series 9 x I ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x I ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x I ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 5 ml DA3123 77 </td <td>Drugs of Abuse Array III (Whole Blood) Control</td> <td>4 x 2 x 1 ml</td> <td>EV3794</td> <td>75</td>	Drugs of Abuse Array III (Whole Blood) Control	4 x 2 x 1 ml	EV3794	75	
Drugs of Abuse Array IV (Urine) Calibrator Series 9 x 1 ml EV3834 75 Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Urine) Control 4 x 2 x 1 ml EV3814 76 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 5 ml DA3125 76 Ecstasy Control Level 1 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Drugs of Abuse Array III (Whole Blood) Calibrator Series	9 x l ml	EV3797	75	
Drugs of Abuse Array IV (Whole Blood) Control 4 x 2 x 1 ml EV3809 75 Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Urine) Control 4 x 2 x 1 ml EV3814 76 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 5 ml DA3123 77	Drugs of Abuse Array IV (Urine) Control	4 x 2 x l ml	EV3835	75	
Drugs of Abuse Array IV (Whole Blood) Calibrator Series 9 x 1 ml EV3808 75 Drugs of Abuse Array V (Urine) Control 4 x 2 x 1 ml EV3814 76 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level I 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Drugs of Abuse Array IV (Urine) Calibrator Series	9 x I ml	EV3834	75	
Drugs of Abuse Array V (Urine) Control 4 x 2 x 1 ml EV3814 76 Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Drugs of Abuse Array IV (Whole Blood) Control	4 x 2 x l ml	EV3809	75	
Drugs of Abuse Array V (Urine) Calibrator Series 9 x 1 ml EV3815 76 Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Drugs of Abuse Array IV (Whole Blood) Calibrator Series	9 x I ml	EV3808	75	
Drugs of Abuse Array V (Whole Blood) Control 4 x 2 x 1 ml EV3848 76 Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Drugs of Abuse Array V (Urine) Control	4 x 2 x l ml	EV3814	76	
Drugs of Abuse Array V (Whole Blood) Calibrator Series 9 x 1 ml EV3847 76 Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Drugs of Abuse Array V (Urine) Calibrator Series	9 x I ml	EV3815	76	
Cannabinoid Calibrator Set 5 x 3 ml DA2700 76 Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Drugs of Abuse Array V (Whole Blood) Control	4 x 2 x l ml	EV3848	76	
Cannabinoid Control Level I 5 x 3 ml DA3127 76 Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Drugs of Abuse Array V (Whole Blood) Calibrator Series	9 x l ml	EV3847	76	
Cannabinoid Control Level 2 5 x 3 ml DA3128 76 Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Cannabinoid Calibrator Set	5 x 3 ml	DA2700	76	
Ecstasy Calibrator Set 5 x 10 ml DA2701 76 Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Cannabinoid Control Level I	5 x 3 ml	DA3127	76	
Ecstasy Control Level I 5 x 5 ml DA3125 76 Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Cannabinoid Control Level 2	5 x 3 ml	DA3128	76	
Ecstasy Control Level 2 5 x 5 ml DA3126 76 EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Ecstasy Calibrator Set	5 x 10 ml	DA2701	76	
EDDP Calibrator Set 5 x 10 ml DA2702 77 EDDP Control Level I 5 x 5 ml DA3123 77	Ecstasy Control Level I	5 x 5 ml	DA3125	76	
EDDP Control Level I 5 x 5 ml DA3123 77	Ecstasy Control Level 2	5 x 5 ml	DA3126	76	
	EDDP Calibrator Set	5 x 10 ml	DA2702	77	
EDDP Control Level 2 5 x 5 ml DA3124 77	EDDP Control Level I	5 x 5 ml	DA3123	77	
	EDDP Control Level 2	5 x 5 ml	DA3124	77	
Ethanol Calibrator/Control Set 5 x 10 ml DA2703 77	Ethanol Calibrator/Control Set	5 x 10 ml	DA2703	77	
Multidrug Calibrator Set 5 x 10 ml DA2704 77	Multidrug Calibrator Set	5 x 10 ml	DA2704	77	
Multidrug Control Level I 5 x 5 ml DA3121 77	Multidrug Control Level I	5 x 5 ml	DA3121	77	
Multidrug Control Level 2 5 x 5 ml DA3122 77	Multidrug Control Level 2	5 x 5 ml	DA3122	77	
Benzodiazepines Control Level I 5 x 5 ml DA3130 78	Benzodiazepines Control Level I	5 x 5 ml	DA3130	78	
Benzodiazepines Control Level 2 5 x 5 ml DA3131 78	Benzodiazepines Control Level 2	5 x 5 ml	DA3131	78	
Benzodiazepines Calibrator Set 5 x 10 ml DA3129 78	Benzodiazepines Calibrator Set	5 x 10 ml	DA3129	78	













Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

Drugs of Abuse Array I Plus Controls and Calibrators &



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

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

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

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

Drugs of Abuse Array II Controls and Calibrators &



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

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

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

Description	Size	Cat. No.
Drugs of Abuse Array II (Urine) Controls	$4 \times 2 \times 1 \text{ ml}$	EV3657
Drugs of Abuse Array II (Whole Blood) Controls	$4 \times 2 \times 1 \text{ ml}$	EV3682
Drugs of Abuse Array II (Oral Fluid) Controls	$4 \times 2 \times 1 \text{ ml}$	EV3702
Drugs of Abuse Array II (Urine) Calibrator Series	9 x I ml	EV3656
Drugs of Abuse Array II (Whole Blood) Calibrator Series	$9 \times 1 \text{ ml}$	EV3687
Drugs of Abuse Array II (Oral Fluid) Calibrator Series	$9 \times 1 \text{ ml}$	EV3701

Drugs of Abuse Array III Controls and Calibrators &



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

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

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

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

Drugs of Abuse Array IV Controls and Calibrators &



Analytes				
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 ml	EV3834
Drugs of Abuse Array IV (Whole Blood) Control	$4 \times 2 \times 1 \text{ ml}$	EV3809
Drugs of Abuse Array IV (Whole Blood) Calibrator Series	9 x l ml	EV3808

Drugs of Abuse Array V Controls and Calibrators 👢 🍥



Analytes

Bath Salts I Bath Salts 2 Benzylpiperazines Mescaline

Phenylpiperazines Salvinorin Synthetic Cannabinoids I 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	$9 \times 1 \text{ ml}$	EV3815
Drugs of Abuse Array V (Whole Blood) Control	$4 \times 2 \times 1 \text{ ml}$	EV3848
Drugs of Abuse Array V (Whole Blood) Calibrator Series	9 x l ml	EV3847

Cannabinoid Control and Calibrator





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

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

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

Ecstasy Control and Calibrator



Analytes

MDMA

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

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

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

EDDP Control and Calibrator



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

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

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

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	$4 \times 10 \text{ ml}$	DA2703

Multidrug Control &



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

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

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

Description	Size	Cat. No.
Multidrug Control Level 1	5×5 ml	DA3121
Multidrug Control Level 2	$5 \times 5 \text{ ml}$	DA3122
Multidrug Calibrator Set	$5 \times 10 \text{ ml}$	DA2704



Benzodiazepines Control and Calibrator



Analytes

Oxazepam

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

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

Description	Size	Cat. No.
Benzodiazepines Control Level 1	$5 \times 5 \text{ ml}$	DA3130
Benzodiazepines Control Level 2	$5 \times 5 \text{ ml}$	DA3131
Benzodiazepines Calibrator Set	$5 \times 10 \text{ ml}$	DA3129

ACUSERA @

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 Produ	ct Range		
Product Description	Size	Cat. No.	Page No.
Assayed Urine Control Level 2	12 x 10 ml	AU2352	82
Assayed Urine Control Level 3	12 x 10 ml	AU2353	82
Urine Precision Control Level 2	10 x 10 ml	UC1502	82
Urine Precision Control Level 3	10 x 10 ml	UC1503	82
Liquid Urine Control Level 2	10 x 10 ml	UC5074	83
Liquid Urine Control Level 3	10 x 10 ml	UC5075	83
Urinalysis Control Level I	12 x 12 ml	UC5033	83
Urinalysis Control Level 2	12 x 12 ml	UC5034	83
Microalbumin Control Level I & 2	6 x l ml	MA1361	83
Microalbumin Calibrator Series	6 x 2 ml	MA1567	83











Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

Assayed Urine Control & 🌘 🛉



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

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

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

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

Urine Precision Control



Analytes			
Calcium	Glucose	Phosphate (Inorganic)	Sodium
Chloride	Magnesium	Potassium	Urea
Creatinine	Osmolality	Protein (Total)	Uric Acid (Urate)

Combining 12 common urine chemistry analytes in a single unassayed control, the Acusera Urine Precision control has been manufactured to monitor precision on a wide range of clinical chemistry analysers.

- · Lyophilised for enhanced stability
- 100% human urine
- Stable until 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.
Urine Precision Control Level 2	$10 \times 10 \text{ ml}$	UC1502
Urine Precision Control Level 3	$10 \times 10 \text{ m}$	UC1503

URINF

Liquid Urine Control **I O †**



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

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

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

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

Urinalysis Control 6 🌘 🛉



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

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

- · Liquid ready-to-use
- 100% human urine
- · Suitable for use in POC testing
- 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 Control and Calibrator



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

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

Description	Size	Cat. No.
Microalbumin Control Level 8 2	$6 \times 1 \text{ ml}$	MA1361
Microalbumin Calibrator Series	$6 \times 2 \text{ ml}$	MA1567



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 & reliable patient results.



For over 30 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 390 analytes. In addition to 'off the shelf' quality control products, Randox is the world's leading provider of customised control materials. Customising control materials can involve adding / removing analytes, specifying concentrations or choosing alternative vial sizes.

Our principal control products are:

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

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

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

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

Consolidation

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

Tailor Made

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

Stability

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

Options

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

Flexibility

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

Quality

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

Choice

3 different formats – lyophilised / liquid / liquid frozen

Week I QC order placed by you Enables Randox to view You run blind sample and Randox sends blind how the material recovers sample to you return results to Randox on your analyser If end sample does Sample is despatched not meet your Randox manufacture customised sample to you specifications, you are under no obligation to accept Sample checked and approved by you Randox generates labels and packages kit Randox despatches and delivers final product to you

Custom Control Timeline

Week16

Antioxidant

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

Blood Gas

- Calcium
- Chloride
- Glucose
- Lactate
- pCO₂
- pH
- pO,
- Potassium
- Sodium
- Total CO,

Cardiac

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

Cellular Adhesion Molecules

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

Cerebral

- BDNF
- GFAP
- IL-6
- NGAL
- NSEsTNFRI
- Thrombomodulin

Coagulation

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

CSF

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

Cytokine & Growth Factors

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

Diabetes

- Fructosamine
- HbAIc
- HbA2
- Hbf
- Hbs

Drugs (Therapeutic)

- Acetaminophen (Paracetamol)
- Amikacin
- Caffeine
- Carbamazepine
- Cyclosporine
- Digoxin
- Ethosuximide
- Gentamicin
- Lithium
- Methotrexate

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

Drugs of Abuse

- 7-aminoflunitrazepam
- II-Nor D-9-THC-9-COOH
- Acetaminophen
- Amphetamine
- Barbiturates
- Bath Salts 1+2
- Bath Saits 1+2
 Benzodiazepine
- Benzoylecgonine
- Benzylpiperazines
- Buprenorphine
- CannabinoidsChloral Hydrate Metabolite
- Cocaine Metabolite
- Dextromethorphan
- Ecstasy
- EDDP
- Ethanol
- Ethyl Glucuronide
- Escitalopram
- Fentanyl
- Haloperidol
- Ibuprofen
- Ketamine
- LSD
- Meperidine
- MeprobamateMescaline
- Methadone
- Methamphetamine
- Methaqualone
- Methylphenidate
- MDMA
- Morphine
- Opiates
- OxazepamOxycodone I
- Oxycodone II
- Phencyclidine
- Phenobarbital
- PhenylpiperazinesPropoxyphene
- Salicylate
- Salicyluric Acid
- SalvinorinSecobarbital
- SetralineTramadol
- Trazodone
- Tricyclic Antidepressants
- Zoleplon
- ZolpidemZopiclone

Endocrine

Leptin

Immunoassay

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

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

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

Metabolic Syndrome

- Plasminogen Activator Inhibitor-I
- Resistin

Proteins

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

Routine Chemistry

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

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

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



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.



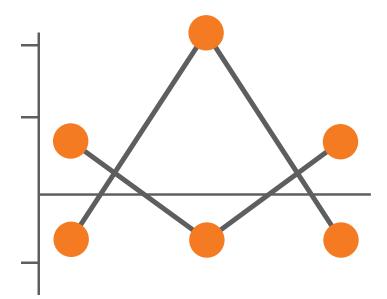
WHAT IS ACUSERA 24.7?

ACUSERA Live Online

Acusera 24.7 Live Online 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

Uniquely updated live, in real-time, you can customise peer groups 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 generated from our extensive database of laboratory participants.

Advanced Statistical Analysis

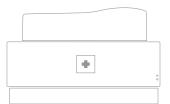
The Statistical Metrics Report incorporates %Bias, Total Error and a Sigma score for optimum QC strategy design while the Uncertainty of Measurement Report helps to meet ISO15189:2012 requirements.



DATA ENTRY OPTIONS

Manual result entry

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



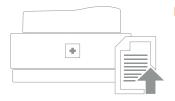
I. Analyser generates QC result.



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

Semi-automated result entry via EDI

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



I. An export file containing the QC result and associated information is generated by the analyser or LIS/LIMS system.



2. The user imports the EDI file into the Acusera 24•7 Live Online software.

QC4220

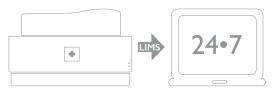
Note: First time users must first create a new configuration for the EDI file and carry out EDI mapping.

Fully automated import of QC data direct from your LIMS

Automatically capture data directly from your LIMS with Acusera 24•7 Connect and import into Acusera 24•7 Live Online without the need to manually import files.

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

Our Acusera 24 • 7 Connect team will work directly with you and your IT team to implement the best solution for your lab's requirements.



I. Acusera 24•7 Connect securely collects and processes QC data directly from the LIS/LIMS for import into Acusera 24•7 Live Online.

Software options

DescriptionCat. No.Acusera 24•7 Live Online Peer Group Activation and 12 Month LicenseQC4218Acusera 24•7 Live Online Peer Group 12 Month License RenewalQC4204Acusera 24•7 Connect*QC4205

*Pending site survey completion

Acusera 24.7 Live Online Upgrade from Acusera 24.7 Live

*Not available in USA



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 45,000 laboratory participants in over 124 countries worldwide. This large number of participants ensures an extensive database of results for many analytical methods, directly increasing statistical validity as a result.

Benefits

Large Database of Users

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

User-friendly Reports

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

Cost Effective

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

Frequency

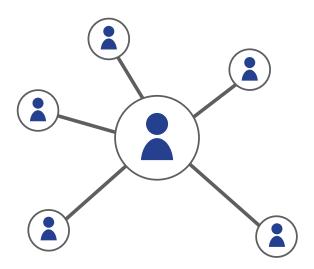
- Frequent reporting allows early identification of system errors and implementation of any necessary corrective actions with minimum disruption to the lab.
- With a turnaround of less than 72 hours for most reports, corrective action can be taken immediately reducing the time spent performing expensive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

High Quality Samples

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

Highly Accredited

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

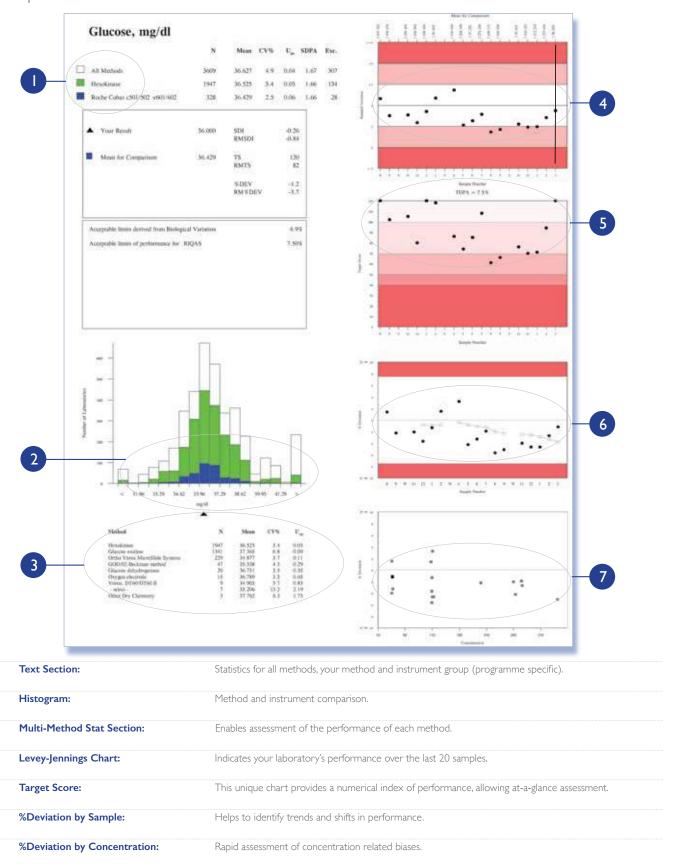


Participation in an EQA scheme will help produce reliable and accurate reporting of patient results. Quality results will reduce time and labour costs, and most importantly provide accurate patient diagnosis and treatment.

9.

STANDARD REPORT

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



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

Ammonia/Ethanol Programme+

RQ9164 (2 ml)

2 Parameters

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

Ammonia

Anti-TSH Receptor Programme+



I Parameter

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

Anti-TSH Receptor (TRAb)

Blood Gas Programme With target scoring



RQ9134 (1.8 ml) First registered instrument 10 Parameters

RQ9134/A (1.8 ml) Subsequent instruments 10 Parameters Samples every month, I \times I2 month cycle, I2 month subscription

pCO. pН pO,

CO₂(Total) Ca++

Na+ Glucose Lactate

BNP Programme+



RQ9165 (1 ml)

I Parameter

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

BNP

Cardiac Programme With target scoring



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

RQ9127/b (1 ml) Full 7 Parameters

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

Cerebrospinal Fluid Programme+



RQ9168 (3 ml) 12 Parameters

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

Albumin (electrophoresis) α- I -globulin (electrophoresis) α-2-globulin (electrophoresis) β-globulin (electrophoresis)

γ-globulin (electrophoresis) Glucose lgG

Lactate Protein (Total) Sodium

Coagulation Programme With target scoring



RQ9135/a (1 ml) 5 Selected parameters only RQ9135/b (1 ml) Full 17 Parameters

(aPTT, PT, TT, Fibrinogen, Antithrombin III)
Samples every month, 1 x 12 month cycle, 12 month subscription

PT (including INR)

Fibrinogen

Antithrombin III

Plasminogen Protein C Factor II Factor V

Factor VII Factor VIII Factor IX Factor X Factor XI

Factor XII D-dimer*

= Lyophilised samples



PURPLE = The only parameters available on RQ9135/a

+ = Not accredited

CYFRA 21-1 Programme+

RQ9175 (1 ml)

I Parameter

Samples every month, I x I2 month cycle, I2 month subscription

CYFRA 21-1 (Cytokeratin 19)

ESR Programme+



RQ9163 (4.5 ml)

I Parameter

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

ESR (Erythrocyte Sedimentation Rate)

General Clinical Chemistry Programme With target scoring



RQ9112/S (5 ml) RQ9113 (5 ml) 10 Parameters only 17 Parameters only **Full 52 Parameters** Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription, reference method values

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

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

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

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

Glycated Haemoglobin Programme (HbAlc) With target scoring



RQ9129 (0.5ml)

2 Parameters

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

Total Haemoglobin

Haematology Programme With target scoring



RQ9118 (2 ml) **II Parameters**

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

Haematocrit (HCT) Haemoglobin (Hb) Mean Cell Haemoglobin (MCH)

Mean Cell Haemoglobin Concentration (MCHC) Mean Cell Volume (MCV) Mean Platelet Volume (MPV)

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

Human Urine Programme With target scoring



RQ9115 (10 ml) 25 Parameters

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

Albumin/Microalbumin Amylase Calcium Chloride Copper Cortisol

Dopamine Epinephrine Glucose Metanephrine Norepinephrine

Normetanephrine Magnesium Osmolality Oxalate Phosphate (Inorganic) Potassium

Sodium Urea Uric Acid VMA 5-HIAA





PURPLE = The only parameters available on RQ9135/a

+ = Not accredited

Immunoassay Programme With target scoring



RQ9125/b (5 ml) RQ9125/a (5 ml) RQ9125/c (5 ml) RQ9130 (5 ml) 4 Parameters only (choose from 55) 13 Parameters only (choose from 55) Full 55 Parameters Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c), lyophilised samples Samples every month, 1 x 12 month cycle, 12 month subscription (RQ9130) Full 55 Parameters

DHEA Unconjugated 17-OH-Progesterone T₄ (Free) T₄ (Total) AFP Digoxin Paracetamol Aldosterone Estriol Total* Phenobarbital Testosterone (Free)* Ethosuximide* Phenytoin Amikacin Testosterone (Total) Androstenedione Ferritin Primidone* Theophylline β -2-Microglobulin Folate Progesterone Thyroglobulin FSH Prolactin CA125 Tobramycin* CA15-3 Gentamicin PSA (Free) TSH CA19-9 PSA (Total) GH Valproic Acid Carbamazepine hCG PTH Vancomycin CEA Salicylate Cortisol Insulin SHBG I-25-(OH),-Vitamin D* C-Peptide 1H T₃ (Free) 25-OH-Vitamin D DHEA-Sulphate Oestradiol T₃ (Total)

Immunoassay Speciality I Programme+ With target scoring



RO9141 (2 ml) 10 Parameters Samples every month, 1×12 month cycle, 12 month subscription

I-25-(OH),-Vitamin D Osteocalcin 25-OH-Vitamin D Anti-TPO Procalcitonin C-Peptide

Immunoassay Speciality 2 Programme+



RQ9142 (2 ml)

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

Plasma Renin Activity Renin (Direct Concentration) Calcitonin Gastrin

Immunosuppressant Programme+



RQ9159 (2 ml)

4 Parameters

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

Cyclosporine Sirolimus Tacrolimus

Lipid Programme With target scoring



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

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

Liquid Cardiac Programme With target scoring



9 Parameters

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

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





PURPLE = The only parameters available on RQ9135/a

+ = Not accredited

Maternal Screening Programme With target scoring

RQ9137 (1 ml) 6 Parameters

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

PAPP-A Total hCG Unconjugated Oestriol Inhihin A

free β -hCG



RQ9153 (1 ml) 3 Parameters

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

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

Serology (HIV-Hepatitis) Programme+



RQ9151 (1.8 ml) 10 Parameters

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

Anti-HCV Anti-HTLV-II HBsAg

Anti-HIV-2 Anti-HBo Anti-HTLV-1&2 Combined Anti-HIV-1&2 Combined Anti-HTLV-I Anti-CMV

Serology (Syphilis) Programme+



RQ9154 (1 ml)

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

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

Serology (ToRCH) Programme+



RQ9152 (1 ml) 12 Parameters

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

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

Specific Proteins Programme With target scoring



26 Parameters	KQ7100 (2 IIII)	KQ7101 (1 IIII)	
Samples every 2 weeks, 2 x 6 mg	onthly cycles, 12 month subscription		
AFP	β-2-Microglobulin	lgA	Lambda Light Chain (Total)
Albumin	Ceruloplasmin	lgE	Prealbumin (Transthyretin)
α-I-Acid glycoprotein	Complement C ₃	lgG	Retinol Binding Protein
α-I-Antitrypsin	Complement C ₄	IgM	Rheumatoid Factor
lpha-2-Macroglobulin	C-Reactive Protein	Kappa Light Chain (Free)	Transferrin

Sweat Testing Programme+



RQ9173 (2 ml) 3 Parameters

Anti Streptolysin O

Antithrombin III

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

Sodium

Haptoglobin





PURPLE = The only parameters available on RQ9135/a

Kappa Light Chain (Total)

Lambda Light Chain (Free)

+ = Not accredited

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

Ethosuximide Caffeine Gentamicin Carbamazepine Lithium Cyclosporine Methotrexate

Digoxin Paracetamol (Acetaminophen)

Phenobarbital Tobramycin Phenytoin Valproic Acid Primidone . Vancomycin Salicylic Acid Theophylline

Trace Elements In Blood Programme+



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

Manganese Copper lodine Magnesium

Trace Elements In Serum Programme+



RQ9170 (3 ml) Samples every month, I \times I2 month cycle, I2 month subscription

Copper Manganese Chromium lodine Nickel Cohalt Lead Selenium

Trace Elements In Urine Programme+



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

Cadmium Magnesium Nickel Copper lodine Thallium Chromium Manganese Cobalt Lead Molybdenum

Urinalysis Programme+



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

Specific Gravity Albumin Galactose Leukocytes . Úrobilinogen Bilirubin Glucose Nitrite hCG Blood Creatinine Ketones Protein

Urine Toxicology Programme+



RQ9139 (5 ml)

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

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

MDMA Methadone Nortriptyline Norpropoxyphene Oxazepam Phencyclidine

Phenobarbital Secobarbital





PURPLE = The only parameters available on RQ9135/a

* = Pilot study ongoing

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



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



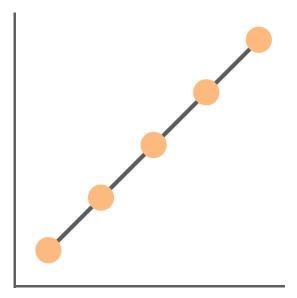
WHAT IS ACUSERA VERIFY?



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

Benefits

- All Acusera Calibration Verification Sets are suppled in a user-friendly liquid ready-to-use format reducing preparation time and the risk of reconstitution errors.
- Covering up to 21 analytes in a single vial you can reduce the number of individual products required to cover your test menu whilst reducing costs and time.
- Each Calibration Verifier contains 5-6 levels designed to challenge the entire analytical measuring range.
- The availability of instrument dedicated material ensures specific instrument requirements are met.



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

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

CARDIAC

Combining up to six common cardiac markers in a single product, the Acusera Cardiac Linearity Sets will reduce the number of individual products required to cover your test menu. Ensure specific instrument requirements are met with the availability of dedicated solutions for both Beckman & Roche Cobas systems. A minimum of five unique levels are provided in a user-friendly, liquid ready-to-use format, eliminating the need for manual dilution and significantly reducing preparation time.



Solutions for Beckman analysers

Analytes

CK-MB Mass | Myoglobin | Troponin I

Ordering Details

Cardiac Linearity Verifiers (for Beckman systems) 5 x 2 ml LV10151

Features & Benefits

- Convenient, liquid ready-to-use format
- 5 levels provided
- 30 day open vial stability at 2°C to 8°C
- Shelf life of 2 years

Solutions for Roche Cobas analysers

Analytes

CK-MB Mass | D-Dimer | Myoglobin
NT-proBNP | Troponin T | hsTroponin T

Ordering Details

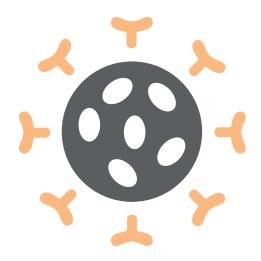
Cardiac Linearity Verifiers (for Roche systems) 6 x 2 ml LV10150

Features & Benefits

- Convenient, liquid ready-to-use format
- 6 levels provided
- 30 day open vial stability at 2°C to 8°C
- Shelf life of 2 years

SPECIFIC PROTEINS

A comprehensive range of serum proteins are available, supplied in multiple configurations designed to cover your laboratory's test menu and ensure supplier consolidation. Several unique options are available for both Beckman AU and Roche Cobas systems delivering accurate assessment of the instruments reportable range. The added advantage of a 30 day open vial stability and liquid ready-to-use format ensures availability of product for troubleshooting and maintains user convenience.



Specific Proteins I

Solutions for Beckman AU analysers

Analytes

ASO | Complement C3 | Complement C4 | CRP Ferritin | IgA | IgG | IgM | Prealbumin | Transferrin

Ordering Details

Protein I Linearity Verifiers (for Beckman AU systems) $5 \times 1.5 \text{ ml}$ LV 10147

Features & Benefits

- Convenient, liquid ready-to-use format
- 5 levels provided
- 30 day open vial stability at 2°C to 8°C
- Shelf life of 3 years

Solutions for Roche Cobas analysers

Analytes

Complement C3 | Complement C4 | IgA | IgG | IgM | Transferrin

Ordering Details

Protein I Linearity Verifiers (for Roche systems) 6 x I ml LV10143

Features & Benefits

- Convenient, liquid ready-to-use format
- 5 levels provided (6 for IgA, IgG and IgM)
- 30 day open vial stability at 2°C to 8°C
- Shelf life of 3 years

SPECIFIC PROTEINS

Specific Proteins 2

Solutions for Beckman AU analysers

Analytes

α-1-Acid Glycoprotein | α-1-Antitrypsin
 β-2-Microglobulin | Ceruloplasmin | Haptoglobin

Ordering Details

Protein 2 Linearity Verifiers (for Beckman AU systems) $5 \times 1.5 \text{ ml}$ LV 10148

Features & Benefits

- Convenient, liquid ready-to-use format
- 5 levels provided
- 30 day open vial stability at 2°C to 8°C
- Shelf life of 3 years

Solutions for Roche Cobas analysers

Analytes

 $\alpha\text{-I-Acid}$ Glycoprotein | $\alpha\text{-I-Antitrypsin}$ | $\beta\text{-2-Microglobulin}$ Ceruloplasmin

Ordering Details

Protein 2 Linearity Verifiers (for Roche systems) $5 \times 1 \text{ ml}$ LV10144

Features & Benefits

- Convenient, liquid ready-to-use format
- 5 levels provided
- 30 day open vial stability at 2°C to 8°C
- Shelf life of 3 years

Specific Proteins 3

Solutions for Roche Cobas analysers

Analytes

ASO | CRP | Haptoglobin

Ordering Details

Protein 3 Linearity Verifiers (for Roche systems) 6 x 1 ml LV10145

Features & Benefits

- Convenient, liquid ready-to-use format
- 6 levels provided (5 for Haptoglobin)
- 30 day open vial stability at 2°C to 8°C
- Shelf life of 3 years

SPECIFIC PROTEINS

Specific Proteins 4

Solutions for Roche Cobas analysers

Analytes

Albumin | Prealbumin | Rheumatoid Factor

Ordering Details

Protein 4 Linearity Verifiers (for Roche systems) 6 x I ml LV10146

Features & Benefits

- · Convenient, liquid ready-to-use format
- 6 levels provided (5 for Rheumatoid Factor)
- 30 day open vial stability at 2°C to 8°C
- Shelf life of 3 years

THERAPEUTIC DRUGS

The Acusera Therapeutic Drug Monitoring Linearity Sets are specifically designed for use with Beckman AU systems and are available in five unique levels spanning the instrument's reportable range. A total of 21 therapeutic drugs are covered in a single, liquid ready-to-use product, eliminating the need to purchase additional material to cover your test menu while remaining easy and convenient to use



Solutions for Beckman AU analysers

Analytes

Acetaminophen | Amikacin | Caffeine | Carbamazepine
Digoxin | Disopyramide | Ethosuximide | Gentamicin
Lidocaine | Lithium | N-Acetylprocainamide | Phenobarbital
Phenytoin | Primidone | Procainamide | Quinidine | Salicylate
Theophylline | Tobramycin | Valproic Acid | Vancomycin

Features & Benefits

- Convenient, liquid ready-to-use format
- 5 levels provided
- 14 day open vial stability at 2°C to 8°C

Ordering Details

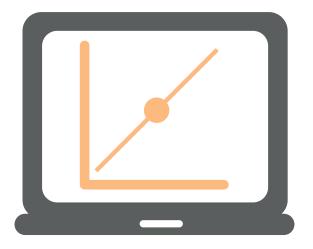
Therapeutic Drug Monitoring Linearity Verifiers (for Beckman AU systems) 5 x 3 ml LV 10 149

Acusera Verify Data Reduction Software

Complimentary data reduction software is available with all **Acusera Linearity Sets**. When used in combination you can effectively challenge your instrument across the complete reportable range while ultimately helping to ensure accurate and reliable patient testing.

What are the benefits of Acusera Verify data reduction software?

- With its straightforward design, you can enter results and review reports immediately
- Results can be measured against the expected value and peer group values
- Peer group data is updated live in real-time for faster troubleshooting
- Customisable charts allow users to add and remove data as required
- Unique traffic light system providing at-a-glance performance assessment



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.

ACUSERA VERIFY

ACUSERA @

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 Control	C rrote	Specific Protein Calibrator (Requires	CRP Controls and Calibrator	CSF Control	Liquid CSF Control	ASO Standard	8-2-Microglobulin Calibrator	Costatin C Control and Calibrator		Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	High Sensitivity IgG Control and Calibrator	Rheumatoid Factor Calibrator Series	arold L	Lipid Control	Apolipoprotein Control and Calibrators	Direct LDL/HDL Cholesterol Calibrator	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	Antimicrobial Controls	Anchine Oblar Condons	Adhesion Molecules Control and Calibrator	Cerebral Controls and Calibrator Series	Cytokine Array Controls and Calibrator Series	Cycordia Amou Control	c u a	Evidence Immunoassay Control	synthetic steroids Control and Calibrator	Metabolic Sydrome I Control and Calibrator	Metabolic Sydrome II Control and Calibrator	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Drugs of Abuse Array I Plus Controls and Calibr	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators	Cannabinoid Control and Calibrator	Ecstasy Control and Calibrator	EDDP Control and Calibrator	Ethanol Calibrator/Control Set	Multidrug Control	Benzodiazepines Control and Calibrator	Assayed Urine Control	Urine Precision Control	Liquid Urine Control	Urinalysis Control	Microalbumin Control and Calibrator		
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Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator	CSF Control	Liquid CSF Control	ASO Standard	8-2-Microglobulin Calibrator	Costatin Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	loF Calibrator	2 4	High Sensitivity IgG Control and Calibrator	Rheumatoid Factor Calibrator Series	Lipid Control	Apolipoprotein Control and Calibrators	Direct LDL/HDL Cholesterol Calibrator	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Controls and Calibrator Series	Cytokine Array Controls and Calibrator Series	Cardiac Array Control	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome I Control and Calibrator	Metabolic Sydrome II Control and Calibrator	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Drugs of Abuse Array I Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators	Cannabinoid Control and Calibrator	Ecstasy Control and Calibrator	EDDP Control and Calibrator	Ethanol Calibrator/Control Set	Multidrug Control	Benzodiazepines Control and Calibrator	Assayed Urine Control	Urine Precision Control	Liquid Urine Control	Urinalysis Control	Microalbumin Control and Calibrator		
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			x		Phenytoin
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					Platelet Distribution Width (PDW)
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					Plateletcrit (PCT)
					Platelet (PLT)
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P	Protein (Total)	G	G	S	-	В	0		_ ;	1 0	2	I	×	\rightarrow	\neg		у _	_	_	x	x	∢ ,	4 0	-	G	2 () 	0	I	I		G	ш	Ι.	∢ .		<u> </u>	= -	: =	+=	-		2
P	Prothrombin Time (PT)					Н			$^{+}$						+	$^{+}$	$^{+}$	+						+				x									+	+		$^{+}$		Н	Н
	PSA (Total)					Н	+	+	$^{+}$				х	х		x	×	x	x	х		+		+												x		хх		$^{+}$	x	х	Н
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	Secobarbital					Н			+							+		+				-		+													+	+		+	Н	H	Н
	Semicarbazine (SEM)					Н	+	+	+						+	+	+	+				+		+			+						+			+	+	+		+	\vdash	Н	Н
	Sertraline					Н	+	+	+					_	+	+	+	+				+		+												+	+	+	+	+	Н		Н
	Sex Hormone Binding Globulin (SHBG)					Н		+	+							+	+	+				+		+												x		x x		+		Н	Н
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s	Sodium					х	1		$^{+}$				х	x	x	x >	x x	×	x	х	х	_		+												+	+	+		$^{+}$		Н	Н
s	Soluble IL-2 Receptor α (sIL-2Rα)					Н			$^{+}$						+	$^{+}$	+	$^{+}$						+													+	+		$^{+}$		Н	Н
	Soluble IL-6 Receptor (sIL-6R)					Н	1		$^{+}$						+	$^{+}$	$^{+}$	+				+		+													+	+		$^{+}$	Н	Н	Н
S	Soluble Tumour Necrosis Factor					Н	\dashv	+	$^{+}$						$^{+}$	+	+	+															1			+	$^{+}$	+		$^{+}$		Н	Н
S	Receptor I (sTNFR I) Soluble Tumour Necrosis Factor					Н	+	+	+						+	+	+	+				+		+			+						+			+	+	+		+	\vdash	Н	Н
	Receptor II (sTNFR II)	Н				\vdash	+		+						+	+	+	+				+		+												+	+	+	+	+	Н	H	Н
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	Streptomycin						+	+																													+						
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	Synthetic Cannabinoids (1 to 4)			^		Н	+	+	+						+	+	+	+				+	+	+			+									+	+	+	+	+	\vdash		Н
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	Festosterone						+	+						-	x		+	x	+-																-	x	+	x x	-				
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	Fheophylline						1						×	х	x	x		×																		x		хх					
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	Fhrombin Time (TT)															+	+											×								+	+		+				
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Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator	CSF Control	Liquid CSF Control	ASO Standard	β-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	mmunoglobulin Liquid Protein Calibrator	IgE Calibrator	High Sensitivity In Control and Calibrator	nsicivity	Rheumatoid Factor Calibrator Series	Lipid Control	Apolipoprotein	Direct LDL/HDL Cholesterol Calibrator	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Controls and Calibrator	Cytokine Array Controls and Calibrator Series	Cardiac Array Control	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome I Control and Calibrator	Metabolic Sydrome II Control and Calibrator	Thyroid Calibrators	Therapeutic Drug Control and Calibrator	Drugs of Abuse Array I Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators	Cannabinoid Control and Calibrator	Ecstasy Control and Calibrator	EDDP Control and Calibrator	Ethanol Calibrator/Control Set	Multidrug Control	Benzodiazepines Control and Calibrator	Assayed Urine Control	Urine Precision Control	Liquid Urine Control	Urinalysis Control	Microalbumin Control and		
ecific	ecific	ecific	3P Co	S	duid 0	30 St	2-Mic	statir	munu	E Cali	S do	ac ug	enma	pid C	odiloc	rect I	popro	DL C	ntimic	rowth	dhesic	erebra	rtokin	ırdiac	idenc	nthet	etabo	etabo	yroid	erap	rugs of	o săn.	o sgn.	ugs o	ugs o	nnab	stasy	D A C	hanol	ultidru	pozua	sayed	rine P	duid 1	rinaly	icroal		
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+	+	+	+	+	+	\dashv				+	+	+	+	+											×	\vdash	\vdash		\vdash	\vdash	H	H	\vdash	+	+	+											PSA (Total)	1
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