ACUSERA

THIRD PARTY CONTROLS



RANDOX



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.

BENEFITS



Traceability

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



Consolidation

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



Clinically Relevant Levels

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



Reduced Waste

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



Flexible Options

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



Custom Controls

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

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

ISO REQUIREMENTS

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

Third Party Controls

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

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

Commutability

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

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

Clinically Relevant Levels

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

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

Data Management

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

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

EQA

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

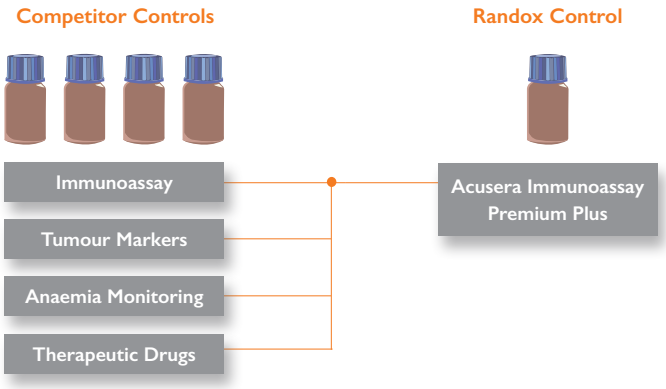
The Randox International Quality Assessment Scheme (RIQAS), is used by more than 45,000 laboratory participants in 124 countries and accredited to ISO 17043. As a result, we have RIQAS users on every continent who are registered for one or more of our 32 flexible EQA programmes, utilising the available data to ensure the quality and reliability of their results.

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.

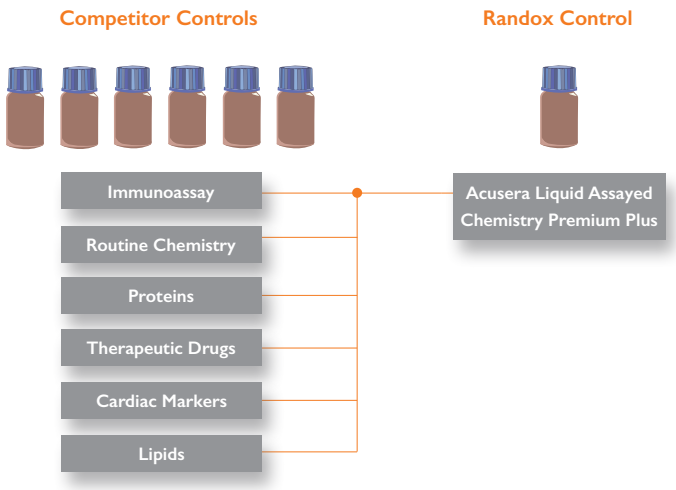


Immunoassay Premium Plus Control

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.

UKAS

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

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

ISO 13485:2003

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.

ACUSERA

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.



ANTIOXIDANT CONTROLS

ANTIOXIDANTS

Antioxidant Product Range			
Product Description	Size	Cat. No.	Page No.
Glutathione Reductase Control	10 x 5 ml	GR2608	8
Glutathione Reductase Calibrator	10 x 5 ml	GR2609	8
Glutathione Peroxidase (Ransel) Control	10 x 1 ml	SC692	8
Glutathione Peroxidase (Ransel) Calibrator	10 x 1 ml	SC10154	8
Superoxide Dismutase (Ransod) Control	10 x 1 ml	SD126	8
Total Antioxidant Status (TAS) Control	10 x 5 ml	NX2331	9
Total Antioxidant Status (TAS) Calibrator	10 x 1 ml	NX2615	9


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Glutathione Reductase Control and Calibrator

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

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

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

Glutathione Peroxidase (Ransel) Control and Calibrator

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

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

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

Superoxide Dismutase (Ransod) Control

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

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

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

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

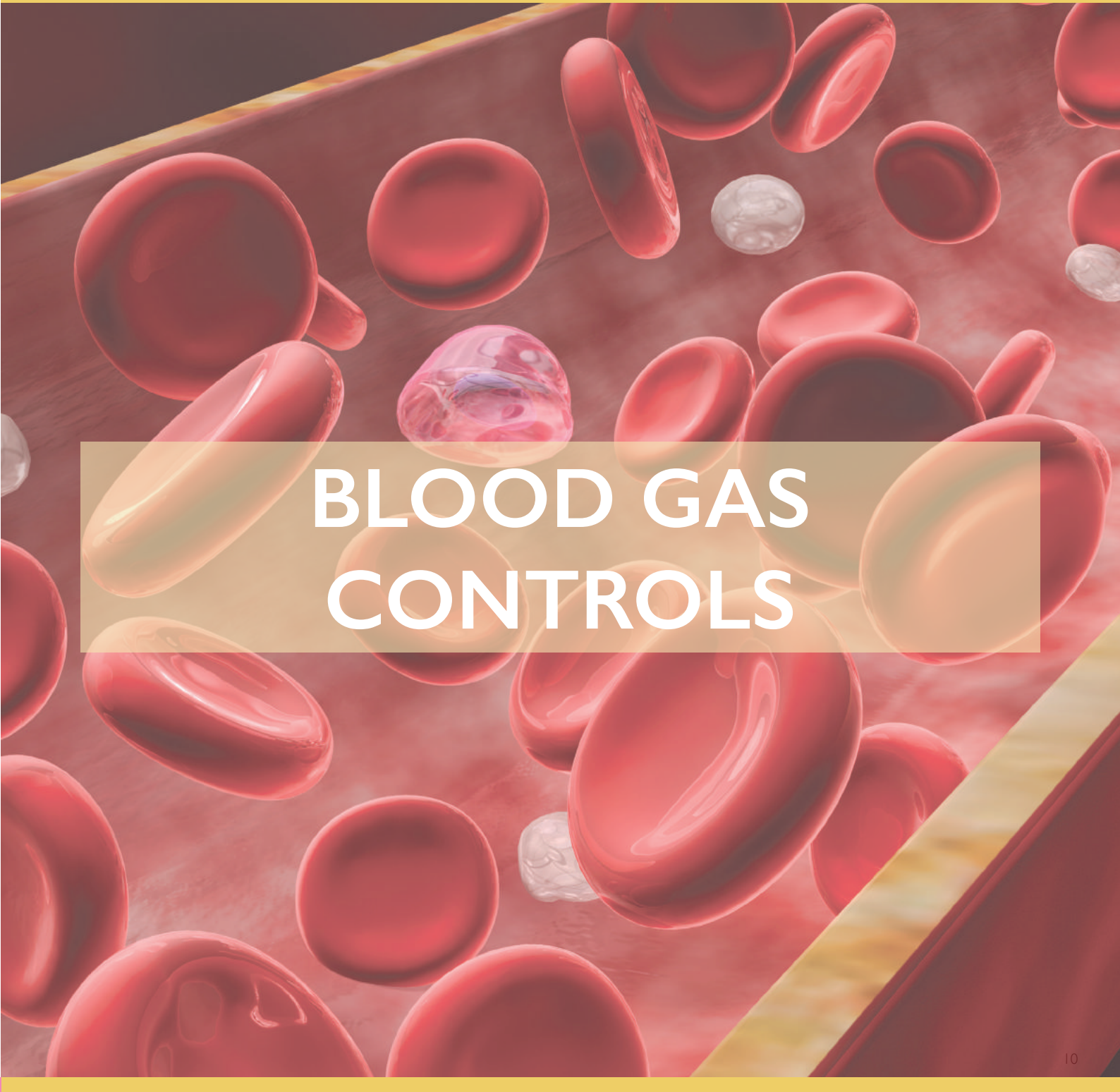
Calibrator

- **Lyophilised for enhanced stability**
- **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 x 5 ml	NX2331
Total Antioxidant Status Calibrator	10 x 1 ml	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 CONTROLS

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

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

Blood Gas Control

Analytes			
Bicarbonate	Glucose	pH	Sodium
Calcium	Lactate	pO_2	
Chloride	pCO_2	Potassium	

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

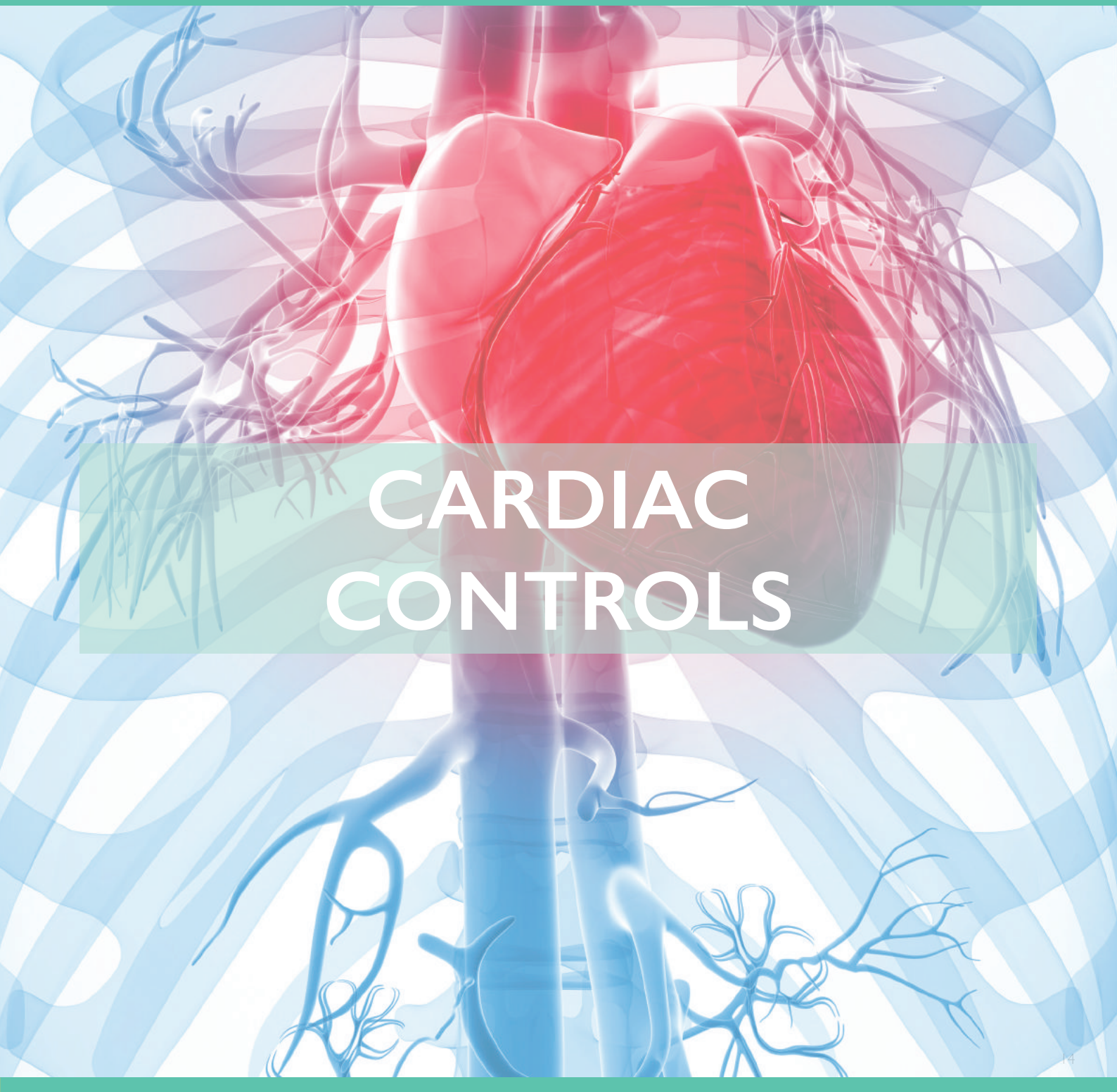
- **Liquid ready-to-use**
- **Aqueous material**
- **Stable to expiry date at 2°C to 8°C**
- **Once opened, controls should be analysed within 1 minute for pH and blood gas analytes; for electrolyte measurements, the control should be analysed within 1 hour of opening**

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

BLOOD GAS

ACUSERA

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 CONTROLS

CARDIAC

Cardiac Product Range			
Product Description	Size	Cat. No.	Page No.
Tri-Level Cardiac Control	3 x 1 ml	CQ3100	16
Tri-Level Cardiac Control	3 x 2 ml	CQ3259	16
Liquid Cardiac Control Level 1	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 Dx1) Level 1	3 x 1 ml	CQ5133	16
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 2	3 x 1 ml	CQ5134	16
Liquid BNP Control (Beckman Access / Beckman Dx1) Level 3	3 x 1 ml	CQ5135	16
Liquid BNP Control (Abbott Architect) Level 1	3 x 1 ml	CQ5136	16
Liquid BNP Control (Abbott Architect) Level 2	3 x 1 ml	CQ5137	16
Liquid BNP Control (Abbott Architect) Level 3	3 x 1 ml	CQ5138	16
Liquid BNP Control (Siemens Advia Centaur) Level 1	3 x 1 ml	CQ5139	16
Liquid BNP Control (Siemens Advia Centaur) Level 2	3 x 1 ml	CQ5140	16
Liquid BNP Control (Siemens Advia Centaur) Level 3	3 x 1 ml	CQ5141	16
Myoglobin Calibrator Series	4 x 1 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 1	3 x 1 ml	FB4026	17
H-FABP Control Level 2	3 x 1 ml	FB4027	17
H-FABP Calibrator Series	6 x 1 ml	FB3134	17


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Cardiac Control

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

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

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

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

Liquid Cardiac Control

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 in-house. 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 1	3 x 3 ml	CQ5051
Liquid Cardiac Control Level 2	3 x 3 ml	CQ5052
Liquid Cardiac Control Level 3	3 x 3 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-to-use with assayed values ensuring specific analyser requirements are met, while maintaining user convenience.

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

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

CARDIAC

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 x 1 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 x 2 ml	CK1212
CK-MB Calibrator	10 x 1 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/l (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 x 3 ml	CQ5080

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

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

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

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

ACUSERA

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 CHEMISTRY CONTROLS

CLINICAL CHEMISTRY

Clinical Chemistry Product Range			
Product Description	Size	Cat. No.	Page No.
Precision Chemistry Premium Plus Level 2	20 x 5 ml	UN1557	20
Precision Chemistry Premium Plus Level 3	20 x 5 ml	UE1558	20
Liquid Chemistry Premium Level 2	12 x 5 ml	LUN5048	21
Liquid Chemistry Premium Level 3	12 x 5 ml	LUE5049	21
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069	22
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070	22
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071	22
Liquid Chemistry Premium Plus Level 1	12 x 10 ml	LUL5093	22
Liquid Chemistry Premium Plus Level 2	12 x 10 ml	LUN5094	22
Liquid Chemistry Premium Plus Level 3	12 x 10 ml	LUE5095	22
Assayed Chemistry Premium Plus Level 2	20 x 5 ml	HN1530	23
Assayed Chemistry Premium Plus Level 3	20 x 5 ml	HE1532	23
Assayed Chemistry Premium Plus Level 2 & 3	2 x 5 x 5 ml	HS2611	23
Chemistry Premium Level 2	12 x 5 ml	HN5067	24
Chemistry Premium Level 3	12 x 5 ml	HE5068	24
Liquid Assayed Chemistry Premium Level 2	12 x 5 ml	LAN4216	25
Liquid Assayed Chemistry Premium Level 3	12 x 5 ml	LAE4217	25
Liquid Assayed Chemistry Premium Plus Level 1	12 x 5 ml	LAL4213	26
Liquid Assayed Chemistry Premium Plus Level 2	12 x 5 ml	LAN4214	26
Liquid Assayed Chemistry Premium Plus Level 3	12 x 5 ml	LAE4215	26
Bovine Chemistry Assayed Level 1	20 x 5 ml	AL1027	27
Bovine Chemistry Assayed Level 2	20 x 5 ml	AN1026	27
Bovine Chemistry Assayed Level 3	20 x 5 ml	AE1032	27
Bovine Chemistry Precision Level 1	20 x 5 ml	SL1084	28
Bovine Chemistry Precision Level 2	20 x 5 ml	SN1085	28
Bovine 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 1	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 1 ml	AD5000	30
Aldolase Control Level 2	3 x 1 ml	AD5001	30
Aldolase Control Level 3	3 x 1 ml	AD5002	30
Bilirubin Elevated Serum	10 x 3 ml	BE454	30
Liquid Bilirubin Control Level 1	3 x 3 ml	BR10172	30
Liquid Bilirubin Control Level 2	3 x 3 ml	BR10173	30
Glycerol Control	3 x 5 ml	GY1369	30
Multi Calibrator	3 x 2 ml	MC1382	31
Multi Control Level 1	5 x 2 ml	MC1379	31
Multi Control Level 2	5 x 2 ml	MC1380	31
Multi Control Level 3	5 x 2 ml	MC1381	31
Glutamine Control Level 1	5 x 5 ml	GM1376	31
Glutamine Control Level 2	5 x 5 ml	GM1377	31
Glutamine Control Level 3	5 x 5 ml	GM1378	31
Glutamine Calibrator	3 x 5 ml	GM1375	31
TxB Cardio Control Level 1	3 x 3 ml	TXB5125	31
TxB 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
TxB Cardio Sample Diluent	3 x 100 ml	TXB2814	31


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Precision Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin I

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

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

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

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

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

Trace Metals
Copper
Zinc

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

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

Description	Size	Cat. No.
Precision Chemistry Premium Plus Level 2	20 x 5 ml	UN1557
Precision Chemistry Premium Plus Level 3	20 x 5 ml	UE1558
Serum Diluent	20 x 5 ml	MS5007

CLINICAL CHEMISTRY

Liquid Chemistry Premium Control

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin T

Drugs
Carbamazepine
Digoxin
Ethanol
Gentamicin
Lithium
Paracetamol
Phenobarbital
Phenytoin
Salicylate
Theophylline
Valproic Acid
Vancomycin

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

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

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

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

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

Trace Metals
Copper
Zinc

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 x 5 ml	LUN5048
Liquid Chemistry Premium Level 3	12 x 5 ml	LUE5049

Liquid Chemistry Premium Plus Control

Analytes

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
α-2-Globulin
Albumin
β-Globulin
γ-Globulin

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

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

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

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

Trace Metals
Copper
Zinc

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

- **Liquid 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**

Description	Size	Cat. No.
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071
Liquid Chemistry Premium Plus Level 1	12 x 10 ml	LUL5093
Liquid Chemistry Premium Plus Level 2	12 x 10 ml	LUN5094
Liquid Chemistry Premium Plus Level 3	12 x 10 ml	LUE5095

CLINICAL CHEMISTRY

Assayed Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)

Drugs
Digoxin
Gentamicin
Lithium
Paracetamol
Salicylate
Theophylline
Tobramycin

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

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

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

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

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

Trace Metals
Copper
Zinc

One of our most popular controls, the Acusera Assayed Chemistry Premium Plus Control, combines a comprehensive 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 x 5 ml	HN1530
Assayed Chemistry Premium Plus Level 3	20 x 5 ml	HE1532
Assayed Chemistry Premium Plus Level 2 & 3	2 x 5 x 5 ml	HS2611
Serum Diluent	20 x 5 ml	MS5007

Chemistry Premium Control

Analytes

Cardiac
CK (Total)

Drugs
Lithium

Lipids
Cholesterol
Triglycerides

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

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

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 x 5 ml	HN5067
Chemistry Premium Level 3	12 x 5 ml	HE5068
Serum Diluent	20 x 5 ml	MS5007

CLINICAL CHEMISTRY

Liquid Assayed Chemistry Premium

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin T

Drugs
Carbamazepine
Digoxin
Ethanol
Gentamicin
Lithium
Paracetamol
Phenobarbital
Phenytoin
Salicylate
Theophylline
Valproic Acid
Vancomycin

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

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

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

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

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

Trace Metals
Copper
Zinc

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**
- **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 x 5 ml	LAN4216
Liquid Assayed Chemistry Premium Level 3	12 x 5 ml	LAE4217

Liquid Assayed Chemistry Premium Plus Control

Analytes

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
α-2-Globulin
Albumin
β-Globulin
γ-Globulin

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

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

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

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

Trace Metals
Copper
Zinc

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

- **Liquid 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**
- **Stable to expiry when stored at -20°C to -70°C**
- **Open vial stability of up to 7 days at 2°C to 8°C**

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

CLINICAL CHEMISTRY

Bovine Chemistry Assayed Control

Analytes

Cardiac
CK (Total)

Drugs
Lithium

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

Lipids
Cholesterol
NEFA
Triglycerides

Proteins
Protein (Total)

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

Trace Metals
Copper
Zinc

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

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

Description	Size	Cat. No.
Bovine Chemistry Assayed Level 1	20 x 5 ml	AL1027
Bovine Chemistry Assayed Level 2	20 x 5 ml	AN1026
Bovine Chemistry Assayed Level 3	20 x 5 ml	AE1032
Serum Diluent	20 x 5 ml	MS5007

Bovine Chemistry Precision Control

Analytes

Cardiac
CK (Total)

Drugs
Lithium

Immunoassay
Cortisol
PSA (Total)
T3 (Total)
T4 (Free)
T4 (Total)

Lipids
Cholesterol
Triglycerides

Proteins
Protein (Total)

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

Trace Metals
Copper
Zinc

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 1	20 x 5 ml	SL1084
Bovine Chemistry Precision Level 2	20 x 5 ml	SN1085
Bovine Chemistry Precision Level 3	20 x 5 ml	SE1086
Serum Diluent	20 x 5 ml	MS5007

CLINICAL CHEMISTRY

Clinical Chemistry Calibration Serum

Analytes

Cardiac
CK (Total)

Drugs
Lithium

Lipids
Cholesterol
Triglycerides

Proteins
Protein (Total)

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

Trace Metals
Copper
Zinc

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 x 5 ml	CAL2350
Clinical Chemistry Calibration Serum Level 3	20 x 5 ml	CAL2351

Ammonia Ethanol Control

Analytes

Ammonia
Ethanol

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

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

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

Aldolase Control and Calibrator

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

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

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

Bilirubin Elevated Serum

Analytes	
Bilirubin (Direct)	Bilirubin (Total)

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

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

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

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 1	3 x 3ml	BR10172
Liquid Bilirubin Control Level 2	3 x 3ml	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**

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

CLINICAL CHEMISTRY

Multi Control and Calibrator

Analytes			
Ammonia	Glucose	Glutamate	Lactate

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

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

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

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

Glutamine Control and Calibrator

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

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

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

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

TXB Cardio Control and Calibrator Series

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

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

Description	Size	Cat. No.
TXB Cardio Control Level 1	3 x 3 ml	TBX5125
TXB Cardio Control Level 2	3 x 3 ml	TBX5126
TXB Cardio Control Level 3	3 x 3 ml	TBX5127
TXB Cardio Calibrator Series	3 x 3 ml	TBX3132
TXB Cardio Sample Diluent	3 x 100 ml	TBX2814

ACUSERA

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 CONTROLS

COAGULATION AND HAEMATOLOGY

Coagulation and Haematology Product Range			
Product Description	**Size**	**Cat. No.**	**Page No.**
Coagulation Control Level 1	12 x 1 ml	CG5021	34
Coagulation Control Level 2	12 x 1 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


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Coagulation Control

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

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

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

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

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 x 1 ml	CG5037

COAGULATION AND HAEMATOLOGY

Haematology Control

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

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

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

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

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

ACUSERA

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 CONTROLS

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 1	3 x 1 ml	FR2994	39
Fructosamine Control Level 3	3 x 1 ml	FR2996	39
Fructosamine Calibrator	3 x 1 ml	FR2993	39
Haemoglobin F and A2 Control	2 x 2 x 0.2 ml	HA5083	39
Adiponectin Control Level 2	3 x 1 ml	AO2801	39
Adiponectin Control Level 3	3 x 1 ml	AO2802	39
Adiponectin Calibrator	4 x 1 ml	AO2800	39


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

HbA1c Control and Calibrator Series

Analytes	
Haemoglobin (Total)	HbA1c

The Acusera HbA1c control is designed for use in the quality control of both HbA1c 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 x 2 x 0.5 ml	HA5072
HbA1c Calibrator Series	5 x 2 ml, 1 x 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 HbA1c Control in your laboratory could reduce preparation time, whilst the 30 day stability will ultimately minimise waste and costs.

- **Liquid ready-to-use**
- **Human based whole blood**
- **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 x 2 x 0.5 ml	HA10155

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

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

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

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

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 x 1 ml	FR2994
Fructosamine Control Level 3	3 x 1 ml	FR2996
Fructosamine Calibrator	3 x 1 ml	FR2993

Haemoglobin F & A2 Control

Analytes	
Level 1 Haemoglobin A2 (HbA2) Haemoglobin F (HbF)	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 x 2 x 0.2 ml	HA5083

Adiponectin Control and Calibrator

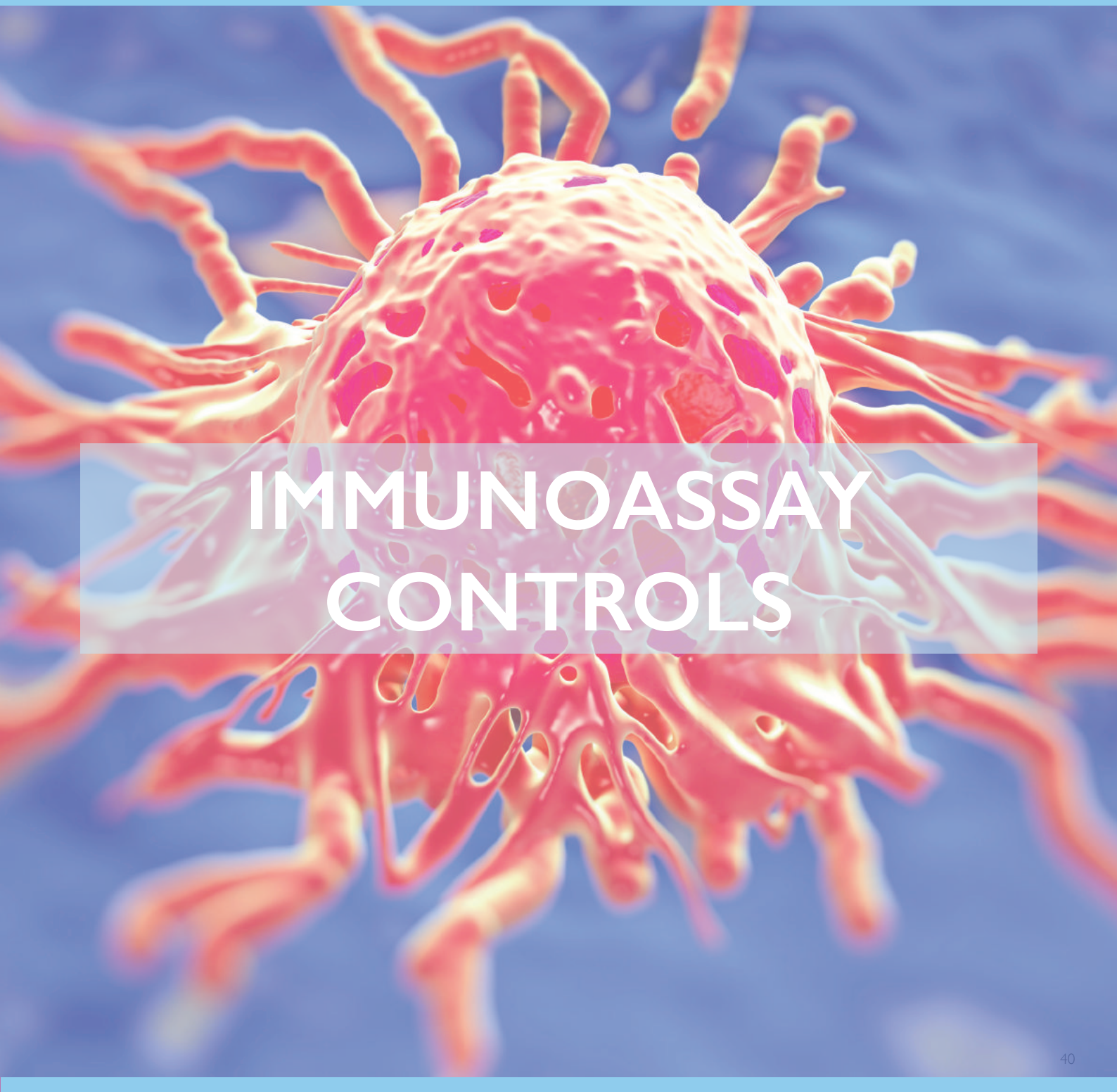
Designed specifically for use with the Randox Adiponectin assay, our control and calibrator will help to ensure accurate test system performance. Supplied in a convenient liquid ready-to-use format, no preparation is required.

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

Description	Size	Cat. No.
Adiponectin Control Level 2	3 x 1 ml	AO2801
Adiponectin Control Level 3	3 x 1 ml	AO2802
Adiponectin Calibrator	4 x 1 ml	AO2800

ACUSERA

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 CONTROLS

IMMUNOASSAY

Immunoassay Product Range			
Product Description	Size	Cat. No.	Page No.
Liquid Immunoassay Premium Level 1	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 1	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 1	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 1	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 1	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 1	5 x 1 ml	IAS3117	45
Immunoassay Speciality II Level 2	5 x 1 ml	IAS3118	45
Immunoassay Speciality II Level 3	5 x 1 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 1	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 1	3 x 1 ml	MSS5024	47
Maternal Screening Control Level 2	3 x 1 ml	MSS5025	47
Maternal Screening Control Level 3	3 x 1 ml	MSS5026	47


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

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 x 5 ml	LIA3105
Liquid Immunoassay Premium Level 2	12 x 5 ml	LIA3106
Liquid Immunoassay Premium Level 3	12 x 5 ml	LIA3107
Liquid Immunoassay Premium Tri-Level	4 x 3 x 5 ml	LIA3108

***No claims are made regarding values or stability.**
+Not for use in the USA.

PTH Control

Analytes
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 1	3 x 3 ml	PTH10110
PTH Control Level 2	3 x 3 ml	PTH10111
PTH Control Level 3	3 x 3 ml	PTH10112

IMMUNOASSAY

Immunoassay Premium Control

Analytes			
17-OH-Progesterone	DHEA-Sulphate	Oestradiol	T3 (Total)
1-25-$(OH)_2$-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)	

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

- **Lyophilised for enhanced stability**
- **100% human serum**
- **Ferritin and Vitamin B_{12} levels suitable for Anaemia monitoring**
- **TSH levels around 0.11 µU/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 1	12 x 5 ml	IA2638
Immunoassay Premium Level 2	12 x 5 ml	IA2639
Immunoassay Premium Level 3	12 x 5 ml	IA2640
Immunoassay Premium Tri-level	4 x 3 x 5 ml	IA2633

***No claims are made regarding values or stability.**

+Values may not be provided for all levels.

Immunoassay Premium Plus Control

Analytes			
17-OH-Progesterone	CEA	Luteinising Hormone (LH)	T3 (Total)
1-25-$(OH)_2$-Vitamin D*	Cortisol	Oestradiol	T4 (Free)
25-OH-Vitamin D	DHEA-Sulphate	Paracetamol	T4 (Total)
α-Fetoprotein (AFP)	Digoxin	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	
Carbamazepine	Insulin	T3 (Free)	

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

- **Lyophilised for enhanced stability**
- **100% human serum**
- **Ferritin and Vitamin B_{12} levels suitable for Anaemia monitoring**
- **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 1	12 x 5 ml	IA3109
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111
Immunoassay Premium Plus Tri-Level	4 x 3 x 5 ml	IA3112

***No claims are made regarding values or stability.**
+Values may not be provided for all levels.

IMMUNOASSAY

Immunoassay Speciality I Control

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

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

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

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

Immunoassay Speciality II Control

Analytes	
Calcitonin	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, 1 day at 2°C to 8°C for Procalcitonin and 8 hours at 2°C to 8°C for Gastrin and Calcitonin. Stable for 28 days at -20°C**

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

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 21-1	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 x 2 ml	TU5002
Tumour Marker Control Level 3	3 x 2 ml	TU5003

Liquid Tumour Marker Control

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

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

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

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

IMMUNOASSAY

Maternal Screening Control

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

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

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

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

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 CONTROLS

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

IMMUNOLOGY/PROTEIN

Immunology/Protein Product Range			
Product Description	Size	Cat. No.	Page No.
Specific Protein Control Level 1	3 x 1 ml	PS2682	50
Specific Protein Control Level 2	3 x 1 ml	PS2683	50
Specific Protein Control Level 3	3 x 1 ml	PS2684	50
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2691	50
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2692	50
Liquid CRP Control Level 2	10 x 1 ml	CP2480	51
Liquid CRP Control Level 3	10 x 1 ml	CP2481	51
High Sensitivity CRP Control Level 1	10 x 1 ml	CP2476	51
High Sensitivity CRP Control Level 2	10 x 1 ml	CP2477	51
CRP Calibrator	3 x 1 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 1 ml	CP2499	51
Canine CRP Control Level 2	3 x 1 ml	CP2803	51
Canine CRP Control Level 3	3 x 1 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 1	10 x 3 ml	CF10138	52
Liquid CSF Control Level 2	10 x 3 ml	CF10139	52
ASO Standard	5 x 1 ml	LO2306	52
β-2-Microglobulin Calibrator	3 x 1 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 1 ml	IT3861	53
IgE Calibrator Series	6 x 1 ml	IE2492	53
High Sensitivity IgG Control Level 1	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 1 ml	IT3899	53
Rheumatoid Factor Calibrator Series	5 x 1 ml	RF2301	53


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Specific Protein Control

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

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 x 1 ml	PS2682
Specific Protein Control Level 2	3 x 1 ml	PS2683
Specific Protein Control Level 3	3 x 1 ml	PS2684

Specific Protein Calibrator

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

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

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

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

Specific Protein Calibrator - Requires Pre-dilution

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

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

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

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

IMMUNOLOGY/PROTEIN

CRP Controls and Calibrator

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

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

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

Canine CRP Control

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

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

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

CSF Control

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

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

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

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

Liquid CSF Control

Analytes

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

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

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

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

***No claims are made regarding values or stability.**

ASO Standard

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

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

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

β-2-Microglobulin Calibrator

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

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

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

Cystatin C Control and Calibrator

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

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

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

IMMUNOLOGY/PROTEIN

Immunoglobulin Liquid Protein Calibrator

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

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

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

Description	Size	Cat. No.
Immunoglobulin Liquid Protein Calibrator	3 x 1 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 1 ml	IE2492

High Sensitivity IgG Control and Calibrator

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

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

Description	Size	Cat. No.
High Sensitivity IgG Control Level 1	5 x 2 ml	IT3982
High Sensitivity IgG Control Level 2	5 x 2 ml	IT3983
High Sensitivity IgG Control Level 3	5 x 2 ml	IT3984
High Sensitivity IgG Calibrator	3 x 1 ml	IT3899

Rheumatoid Factor Calibrator Series

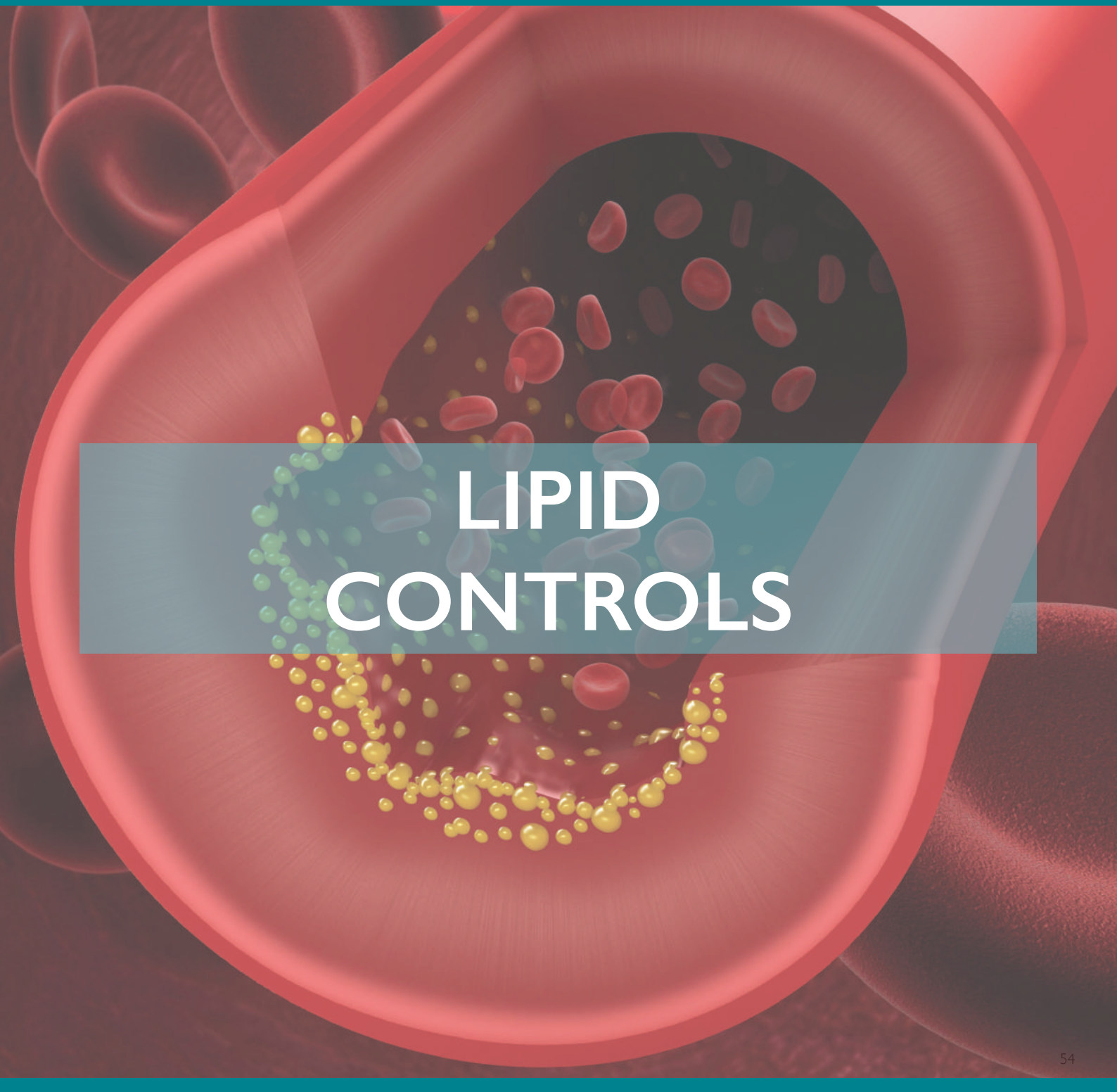
Comprising 5 levels, our RF calibrator series is designed for use in the calibration of RF immunoturbidimetric assays. Supplied in a user-friendly liquid ready-to-use format and stable to expiry date, no preparation is required.

- **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**

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

ACUSERA

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.



LIPID CONTROLS

LIPIDS

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


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Lipid Control

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

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

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

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

Apolipoprotein Control and Calibrators

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

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

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

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

LIPIDS

Direct LDL/HDL Cholesterol Calibrator

Analytes	
Cholesterol (HDL)	Cholesterol (LDL)

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

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

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

Lipoprotein (a) Control and Calibrator

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

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

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

sLDL Control and Calibrator

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

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

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

ACUSERA

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 CONTROLS

SPECIALITY AND RESEARCH

Speciality and Research Product Range			
Product Description	**Size**	**Cat. No.**	**Page No.**
Antimicrobial Control II	3 x 1 ml	AMC5035	60
Antimicrobial Control III	3 x 1 ml	AMC5036	60
Growth Promoter Control	3 x 1 ml	GP5003	60
Adhesion Molecules Tri-Level Control	3 x 3 x 1 ml	EV3569	61
Adhesion Molecules Calibrator Series	9 x 1 ml	EV3568	61
Cerebral Series I Tri-Level Control	3 x 3 x 1 ml	CAB5008	61
Cerebral Array I Calibrator Series	9 x 1 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 1 ml	EV3561	62
Cytokine Array III Tri-Level Control	3 x 3 x 1 ml	CY5012	62
Cytokine Array III Calibrator Series	9 x 1 ml	EV3679	62
Cytokine Array IV Tri-Level Control	3 x 3 x 1 ml	CY5011	63
Cytokine Array IV Calibrator Series	9 x 1 ml	EV3658	63
Cardiac Array Control	3 x 3 x1 ml	EV3691	63
Evidence Immunoassay Control	4 x 3 x 5 ml	EV3570	64
Synthetic Steroids Control	3 x 1 ml	EV3709	64
Synthetic Steroids Calibrator	9 x 1 ml	EV3708	64
Metabolic Syndrome Array I Control	3 x 3 x 1 ml	EV3757	65
Metabolic Syndrome Array I Calibrator	9 x 1 ml	EV3756	65
Metabolic Syndrome Array II Control	3 x 3 x 1 ml	EV3761	65
Metabolic Syndrome Array II Calibrator	9 x 1 ml	EV3760	65
Thyroid Total Calibrator Series	9 x 1 ml	EV3555	65
Thyroid Free Calibrator Series	9 x 1 ml	EV3563	66


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

Antimicrobial Control II

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

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

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

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

Antimicrobial Control III

Analytes	
AHD AMOZ AOZ	Chloramphenicol Semicarbazine (SEM)

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

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

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

Growth Promoter Control

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

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

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

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

SPECIALITY AND RESEARCH

Adhesion Molecules Control and Calibrator

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

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

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

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

Cerebral Series I Control and Calibrator

Analytes	
Brain Derived Neurotrophic Factor (BDNF)	Glial Fibrillary Acidic Protein (GFAP)
Fatty Acid Binding Protein (FABP)	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 x 3 x 1 ml	CAB5008
Cerebral Array 1 Calibrator Series	9 x 1 ml	EV3625

Cerebral Series II Control

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

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

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

Description	Size	Cat. No.
Cerebral Series II Tri-Level Control	3 x 3 x 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-1α (IL-1α)
Interleukin-1β (IL-1β)
Interleukin-2 (IL-2)
Interleukin-4 (IL-4)
Interleukin-6 (IL-6)
Interleukin-8 (IL-8)
Interleukin-10 (IL-10)
Monocyte Chemoattractant Protein-1 (MCP-1)
Tumour Necrosis Factor α (TNFα)
Vascular Endothelial Growth Factor (VEGF)

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

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

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

Cytokine Array III Control and Calibrator

Analytes

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

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

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

Description	Size	Cat. No.
Cytokine Array III Tri-Level Control	3 x 3 x 1 ml	CY5012
Cytokine Array III Calibrator Series	9 x 1 ml	EV3679

SPECIALITY AND RESEARCH

Cytokine Array IV Control and Calibrator

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

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

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

Description	Size	Cat. No.
Cytokine Array IV Tri-Level Control	3 x 3 x 1 ml	CY5011
Cytokine Array IV Calibrator Series	9 x 1 ml	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 x 3 x 1 ml	EV3691

Evidence Immunoassay Control

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

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

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

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

Synthetic Steroids Control and Calibrator

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

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

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

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

SPECIALITY AND RESEARCH

Metabolic Syndrome Array I Control and Calibrator

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

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

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

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

Metabolic Syndrome Array II Control and Calibrator

Analytes		
Adiponectin	CRP	Cystatin C

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

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

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

Thyroid Total Calibrator

Analytes		
T3 (Total)	T4 (Total)	TSH

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

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

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

Thyroid Free Calibrator

Analytes		
T3 (Free)	T4 (Free)	TSH

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

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

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

SPECIALITY AND RESEARCH

ACUSERA

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 CONTROLS

THERAPEUTIC DRUG

Therapeutic Drug Product Range			
Product Description	Size	Cat. No.	Page No.
Therapeutic Drug Control Level 1	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


100% human matrix

Therapeutic Drug Control

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

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

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

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

Therapeutic Drug Calibrator

Analytes			
Carbamazepine	Gentamicin	Phenytoin	Valproic Acid
Digoxin	Phenobarbital		

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

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

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

THERAPEUTIC DRUG

ACUSERA

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



TOXICOLOGY CONTROLS

TOXICOLOGY

Toxicology Product Range			
Product Description	**Size**	**Cat. No.**	**Page No.**
Drugs of Abuse Array I Plus (Urine) Controls	4 x 2 x 1 ml	EV3745	74
Drugs of Abuse Array I Plus (Urine) Calibrators	9 x 1 ml	EV3744	74
Drugs of Abuse Array I Plus (Whole Blood) Controls	4 x 2 x 1 ml	EV3750	74
Drugs of Abuse Array I Plus (Whole Blood) Calibrators	9 x 1 ml	EV3749	74
Drugs of Abuse Array II (Urine) Controls	4 x 2 x 1 ml	EV3657	74
Drugs of Abuse Array II (Whole Blood) Controls	4 x 2 x 1 ml	EV3682	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 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	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 1	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 1	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 1	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
Multidrug Calibrator Set	5 x 10 ml	DA2704	77
Multidrug Control Level 1	5 x 5 ml	DA3121	77
Multidrug Control Level 2	5 x 5 ml	DA3122	77
Benzodiazepines Control Level 1	5 x 5 ml	DA3130	78
Benzodiazepines Control Level 2	5 x 5 ml	DA3131	78
Benzodiazepines Calibrator Set	5 x 10 ml	DA3129	78

Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

Drugs of Abuse Array I Plus Controls and Calibrators

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

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

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

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

Drugs of Abuse Array II Controls and Calibrators

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

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

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

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

TOXICOLOGY

Drugs of Abuse Array III Controls and Calibrators

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

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

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

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

Drugs of Abuse Array IV Controls and Calibrators

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

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

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

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

Drugs of Abuse Array V Controls and Calibrators

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

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

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

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

Cannabinoid Control and Calibrator

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

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

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

Ecstasy Control and Calibrator

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 x 10 ml	DA2701
Ecstasy Control Level 1	5 x 5 ml	DA3125
Ecstasy Control Level 2	5 x 5 ml	DA3126

TOXICOLOGY

EDDP Control and Calibrator

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

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

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

Ethanol Calibrator/Control Set

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

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

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

Multidrug Control

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

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

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

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

Benzodiazepines Control and Calibrator

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 x 5 ml	DA3130
Benzodiazepines Control Level 2	5 x 5 ml	DA3131
Benzodiazepines Calibrator Set	5 x 10 ml	DA3129

TOXICOLOGY

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 CONTROLS

URINE

Urine Product 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 1	12 x 12 ml	UC5033	83
Urinalysis Control Level 2	12 x 12 ml	UC5034	83
Microalbumin Control Level 1 & 2	6 x 1 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


100% human matrix

Assayed Urine Control

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

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

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

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

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 x 10 ml	UC1502
Urine Precision Control Level 3	10 x 10 ml	UC1503

URINE

Liquid Urine Control

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

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

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

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

Urinalysis Control

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

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

- **Liquid ready-to-use**
- **100% human urine**
- **Suitable for use in 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 1 & 2	6 x 1 ml	MA1361
Microalbumin Calibrator Series	6 x 2 ml	MA1567

ACUSERA

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.



CUSTOMISED QUALITY CONTROL SERA

CUSTOMISED QUALITY CONTROL SERA

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

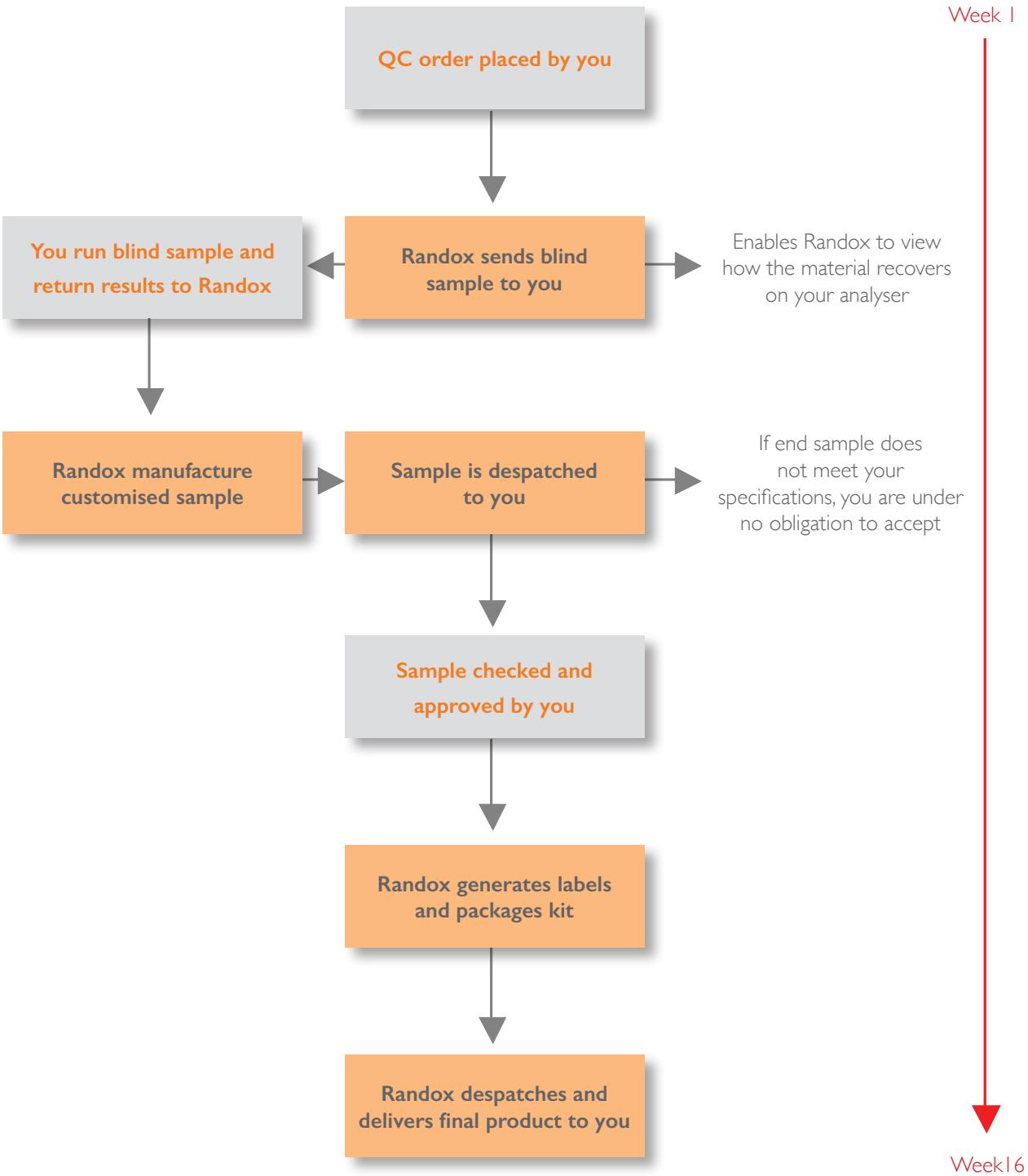
All controls are **produced to high quality specification**, fully compliant with ISO 13485

Choice

3 different formats – lyophilised / liquid / liquid frozen

CUSTOMISED QUALITY CONTROL SERA

Custom Control Timeline



CUSTOMISED QUALITY CONTROL SERA

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

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

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

Cellular Adhesion Molecules
- E-Selectin
- ICAM-1
- L-Selectin
- P-Selectin
- VCAM-1

Cerebral
- BDNF
- GFAP
- IL-6
- NGAL
- NSE
- sTNFRI
- Thrombomodulin

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

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

Cytokine & Growth Factors
- Epidermal Growth Factor (EGF)
- Granulocyte Macrophage Colony-Stimulating Factor (GMCSF)
- Intercellular Adhesion Molecule 1 (ICAM-1)
- Interferon-γ (IFN-γ)
- Interleukin-1 α (IL-1α)
- Interleukin-1 β (IL-1β)
- Interleukin-2 (IL-2)
- Interleukin-3 (IL-3)
- Interleukin-4 (IL-4)
- Interleukin-5 (IL-5)
- Interleukin-6 (IL-6)
- Interleukin-7 (IL-7)
- Interleukin-7D (IL-7D)
- Interleukin-8 (IL-8)
- Interleukin-10 (IL-10)
- Interleukin-12p (IL-12p)
- Interleukin-13 (IL-13)
- Interleukin-15 (IL-15)
- Interleukin-23 (IL-23)
- Macrophage Inflammatory Protein-1 α (MIP-1α)
- Matrix Metalloproteinase 9 (MMP-9)
- Monocyte Chemotactic Protein-1 (MCP-1)
- Soluble Interleukin-2 Receptor α (SIL-2Rα)
- Soluble Interleukin-6 Soluble Receptor (SIL-6SR)
- Soluble Tumour Necrosis Factor Receptor-1 (sTNFRI)
- Soluble Tumour Necrosis Factor Receptor-2 (sTNFR2)
- Tumour Necrosis Factor - α (TNF - α)
- Tumour Necrosis Factor - β (TNF - β)
- Vascular Endothelial Growth Factor (VEGF)

Diabetes
- Fructosamine
- HbA1c
- HbA2
- Hbf
- Hbs

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

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

Endocrine
- Leptin

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

CUSTOMISED QUALITY CONTROL SERA

Immunoassay
- 17-OH – Progesterone
- 1-25-$(OH)_2$-Vitamin D
- 25-OH-Vitamin D
- α-Fetoprotein (AFP)
- ACTH
- Aldosterone
- Amikacin
- Androstenedione
- Anti-Thyroglobulin (Anti-TG)
- Anti-Thyroperoxidase (Anti-TPO)
- β-2-Microglobulin
- C-Peptides
- CA 15-3
- CA 19-9
- CA 72-4
- CA 125
- Calcitonin
- Carbamazepine
- CEA
- Cortisol
- CYFRA 21-1
- DHEA-Sulphate
- Digoxin
- Estriol
- Estriol (unconjugated)
- Ethosuximide
- Ferritin
- Folate
- Free β-hCG
- FSH
- Gastrin
- Gentamicin
- Growth Hormone (GH)
- hCG
- Immunoglobulin E (IgE)
- Inhibin A
- Insulin
- Insulin Like Growth Factor 1(IGF-1)
- Intact PTH (Parathyroid Hormone)
- Luteinising Hormone (LH)
- Neuron Specific Enolase
- Oestradiol
- Osteocalcin
- PAPP- A
- Paracetamol
- 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 B_{12}

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

Metabolic Syndrome
- Plasminogen Activator Inhibitor-1
- Resistin

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

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

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

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

CUSTOMISED QUALITY CONTROL SERA

ACUSERA 24•7

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.



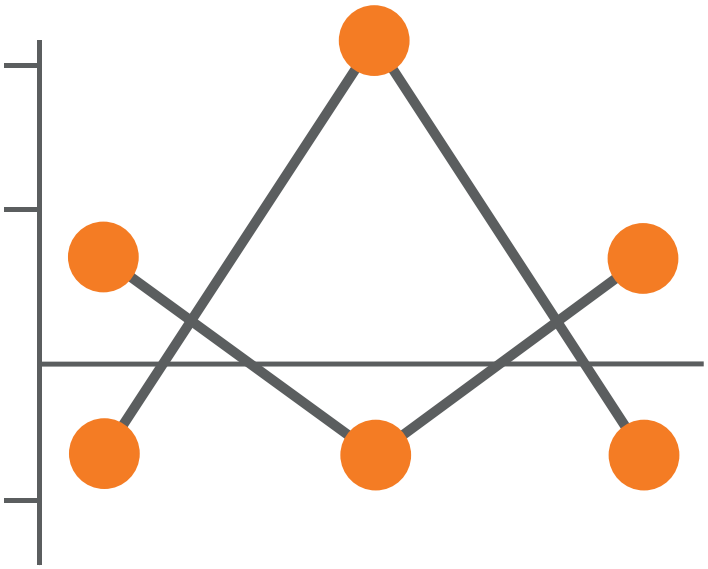
INTERLABORATORY DATA MANAGEMENT

ACUSERA 24•7 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?

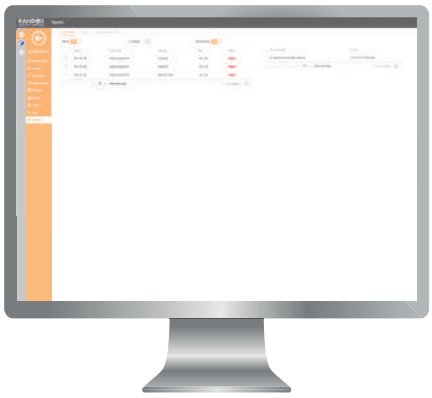
- Quickly identify trends, system errors and reagent issues, minimising expensive repeat tests
- Bridge the gap between daily quality control and external quality assessment
- Improve EQA performance by eliminating any undetected bias
- Facilitate regulatory compliance
- Reduce false rejections through 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.

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.

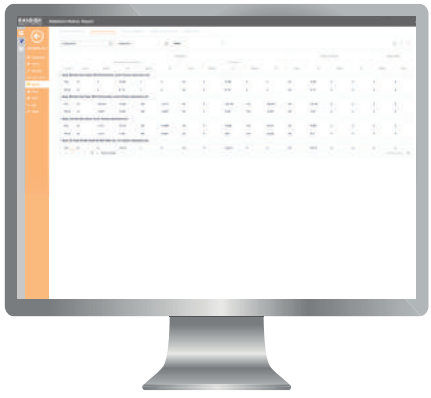


Peer Group Statistics

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.

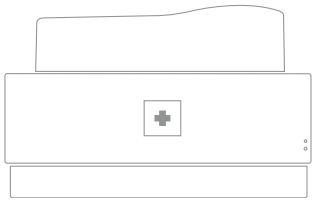


*Not available in the USA

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.



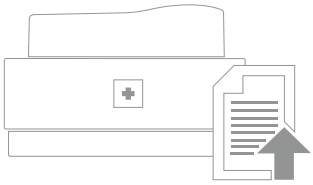
1. Analyser generates QC result.



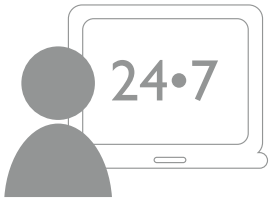
2. QC result is manually entered by the user into the Acusera 24•7 Live Online software.

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.



1. 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.

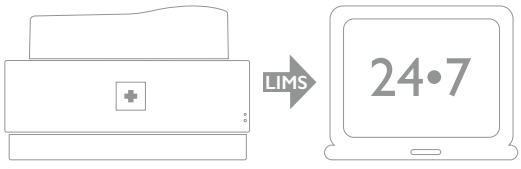
Note: First time users must first create a new configuration for the EDI file and carry out EDI mapping.

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.



1. 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

Description	Cat. No.
Acusera 24•7 Live Online Peer Group Activation and 12 Month License	QC4218
Acusera 24•7 Live Online Peer Group 12 Month License Renewal	QC4204
Acusera 24•7 Connect[+]	QC4205
Acusera 24•7 Live Online Upgrade from Acusera 24•7 Live	QC4220

[+]Pending site survey completion [*]Not available in USA

RIQAS

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.



EXTERNAL QUALITY ASSESSMENT

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

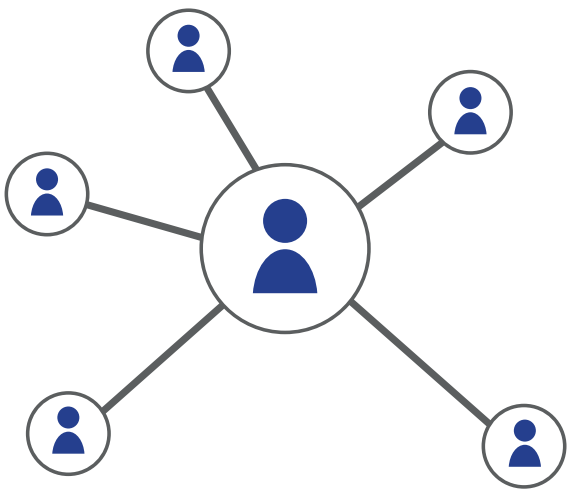
- Frequent reporting allows early identification of system errors and implementation of any necessary corrective actions with minimum disruption to the lab.
- With a turnaround of less than 72 hours for most reports, corrective action can be taken immediately reducing the time spent performing expensive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

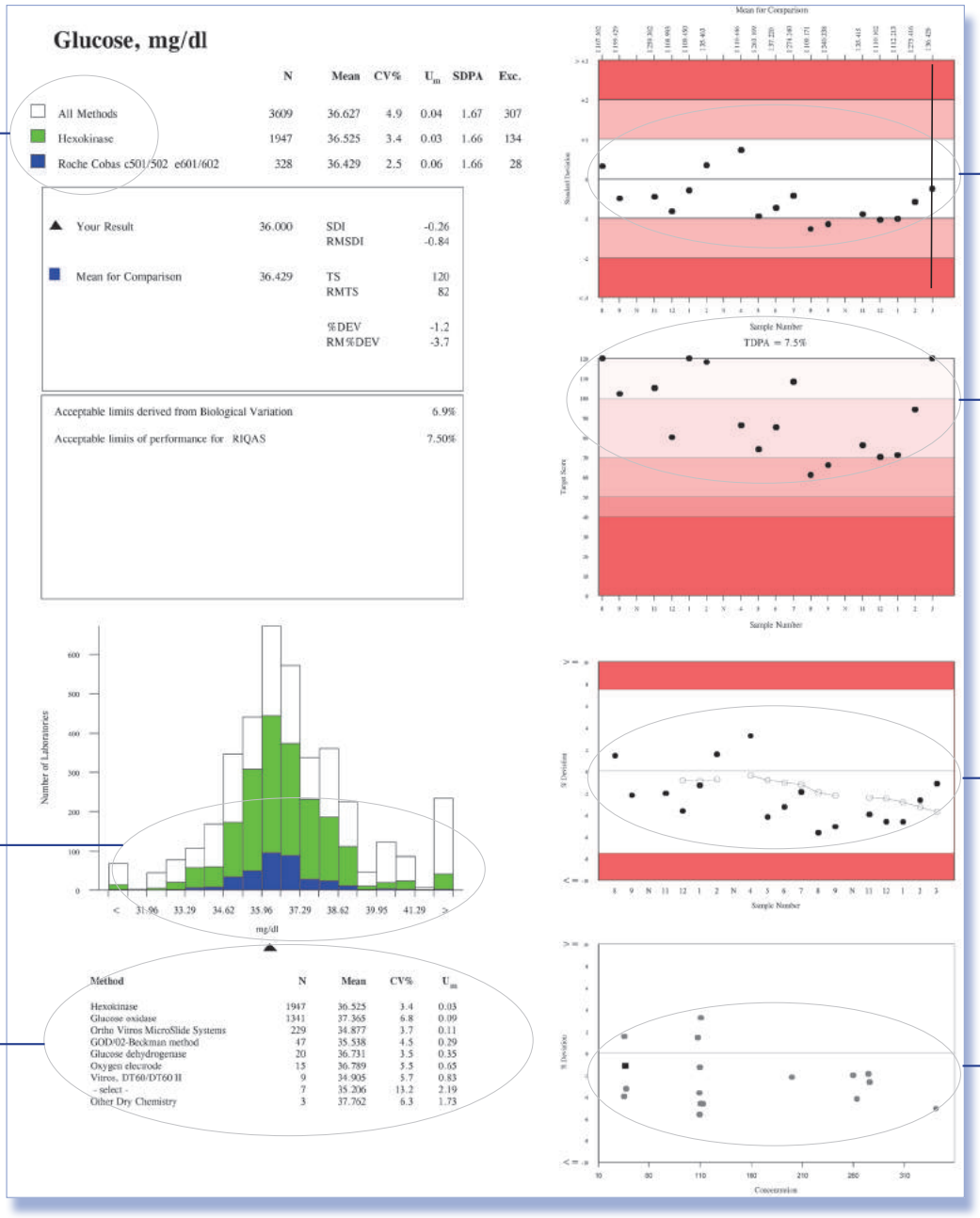
- Programmes accepted by National and International accreditation bodies worldwide.
- Participant certificates provide evidence of participation in a reputable EQA scheme.



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.

STANDARD REPORT

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



1	**Text Section:**	Statistics for all methods, your method and instrument group (programme specific).
2	**Histogram:**	Method and instrument comparison.
3	**Multi-Method Stat Section:**	Enables assessment of the performance of each method.
4	**Levey-Jennings Chart:**	Indicates your laboratory's performance over the last 20 samples.
5	**Target Score:**	This unique chart provides a numerical index of performance, allowing at-a-glance assessment.
6	**%Deviation by Sample:**	Helps to identify trends and shifts in performance.
7	**%Deviation by Concentration:**	Rapid assessment of concentration related biases.

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

RIQAS PROGRAMMES

Ammonia/Ethanol Programme+

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

Ammonia
Ethanol

Anti-TSH Receptor Programme+

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

Anti-TSH Receptor (TRAb)

Blood Gas Programme *With target scoring*

RQ9134 (1.8 ml)	RQ9134/A (1.8 ml)
First registered instrument	Subsequent instruments
10 Parameters	10 Parameters

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

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

BNP Programme+

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

BNP

Cardiac Programme *With target scoring*

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

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

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

Cerebrospinal Fluid Programme+

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

Albumin	α-2-globulin (electrophoresis)	γ-globulin (electrophoresis)	Lactate
Albumin (electrophoresis)	β-globulin (electrophoresis)	Glucose	Protein (Total)
α-1-globulin (electrophoresis)	Chloride	IgG	Sodium

Coagulation Programme *With target scoring*

RQ9135/a (1 ml)	RQ9135/b (1 ml)
5 Selected parameters only (aPTT, PT, TT, Fibrinogen, Antithrombin III)	Full 17 Parameters

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

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

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

CYFRA 21-1 Programme+

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

CYFRA 21-1 (Cytokeratin 19)

ESR Programme+

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

ESR (Erythrocyte Sedimentation Rate)

General Clinical Chemistry Programme *With target scoring*

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

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

Glycated Haemoglobin Programme (HbA1c) *With target scoring*

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

HbA1c
Total Haemoglobin

Haematology Programme *With target scoring*

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

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

Human Urine Programme *With target scoring*

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

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

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

RIQAS PROGRAMMES

Immunoassay Programme *With target scoring*

RQ9125/a (5 ml)	RQ9125/b (5 ml)	RQ9125/c (5 ml)	RQ9130 (5 ml)
4 Parameters only (choose from 55)	13 Parameters only (choose from 55)	Full 55 Parameters	Full 55 Parameters
Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c), lyophilised samples			
Samples every month, 1 x 12 month cycle, 12 month subscription (RQ9130)			
ACTH	DHEA Unconjugated	17-OH-Progesterone	T_4 (Free)
AFP	Digoxin	Paracetamol	T_4 (Total)
Aldosterone	Estriol Total*	Phenobarbital	Testosterone (Free)*
Amikacin	Ethosuximide*	Phenytoin	Testosterone (Total)
Androstenedione	Ferritin	Primidone*	Theophylline
β-2-Microglobulin	Folate	Progesterone	Thyroglobulin
CA125	FSH	Prolactin	Tobramycin*
CA15-3	Gentamicin	PSA (Free)	TSH
CA19-9	GH	PSA (Total)	Valproic Acid
Carbamazepine	hCG	PTH	Vancomycin
CEA	IgE	Salicylate	Vitamin B12
Cortisol	Insulin	SHBG	1-25-$(OH)_2$-Vitamin D*
C-Peptide	LH	T_3 (Free)	25-OH-Vitamin D
DHEA-Sulphate	Oestradiol	T_3 (Total)	

Immunoassay Speciality 1 Programme+ *With target scoring*

RQ9141 (2 ml)			
10 Parameters			
Samples every month, 1 x 12 month cycle, 12 month subscription			
1-25-$(OH)_2$-Vitamin D	Anti-TG	Osteocalcin	Insulin
25-OH-Vitamin D	Anti-TPO	Procalcitonin	
C-Peptide	IGF-1	PTH	

Immunoassay Speciality 2 Programme+

RQ9142 (2 ml)			
5 Parameters			
Samples every month, 1 x 12 month cycle, 12 month subscription			
Calcitonin	Procalcitonin	Plasma Renin Activity	Renin (Direct Concentration)
Gastrin			

Immunosuppressant Programme+

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

Lipid Programme *With target scoring*

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

Liquid Cardiac Programme *With target scoring*

RQ9136 (3 ml)			
9 Parameters			
Samples every month, 1 x 12 month cycle, 12 month subscription			
CK-MB Mass	Homocysteine	Myoglobin	Troponin I
D-dimer	hsCRP	NT proBNP	Troponin T
Digoxin			

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

Maternal Screening Programme *With target scoring*

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

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

Serology (EBV) Programme+

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

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

Serology (HIV-Hepatitis) Programme+

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

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

Serology (Syphilis) Programme+

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

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

Serology (ToRCH) Programme+

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

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

Specific Proteins Programme *With target scoring*

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

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

Sweat Testing Programme+

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

Chloride	Conductivity	Sodium

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RIQAS PROGRAMMES

Therapeutic Drugs Programme *With target scoring*

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

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

Trace Elements In Blood Programme+

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

Copper	Lead	Manganese	Zinc
Iodine	Magnesium	Selenium	

Trace Elements In Serum Programme+

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

Aluminium	Copper	Manganese	Zinc
Chromium	Iodine	Nickel	
Cobalt	Lead	Selenium	

Trace Elements In Urine Programme+

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

Cadmium	Copper	Magnesium	Nickel
Chromium	Iodine	Manganese	Thallium
Cobalt	Lead	Molybdenum	

Urinalysis Programme+

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

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

Urine Toxicology Programme+

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

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

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

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

ACUSERA VERIFY

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.



CALIBRATION VERIFICATION SETS

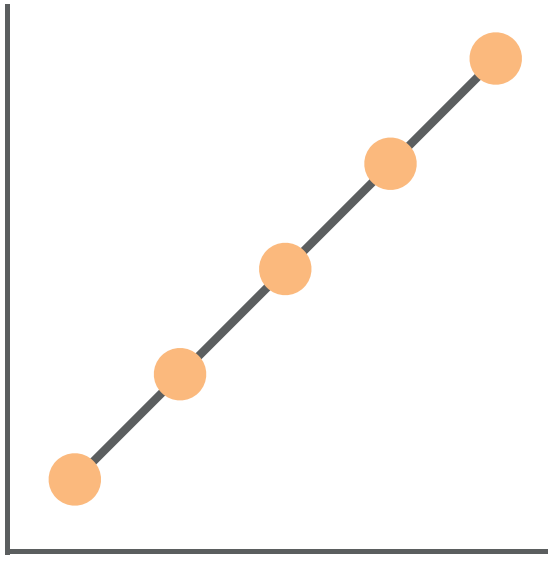
WHAT IS ACUSERA VERIFY?

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

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

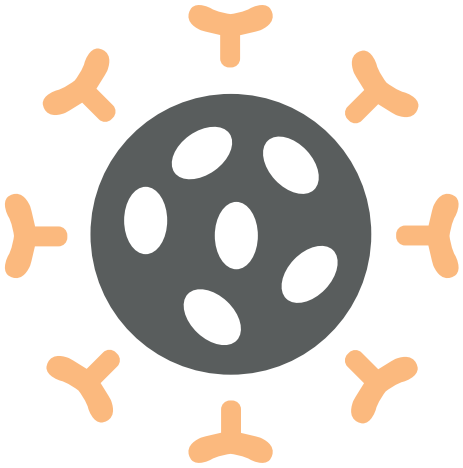
Cardiac Linearity Verifiers (for Roche systems) 6 x 2 ml LV10150

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 x 1.5 ml LV10147

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 1 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 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 x 1.5 ml LV10148

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

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

Ordering Details

Protein 2 Linearity Verifiers (for Roche systems) 5 x 1 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

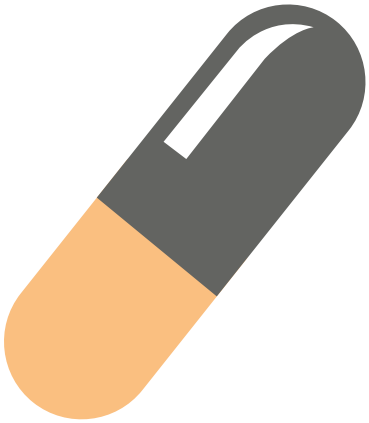
Protein 4 Linearity Verifiers (for Roche systems) 6 x 1 ml LV10146

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

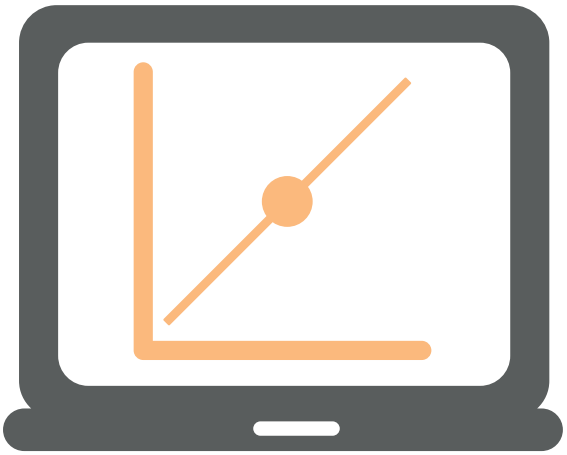
Therapeutic Drug Monitoring Linearity Verifiers (for Beckman AU systems) 5 x 3 ml LV10149

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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ANALYTE INDEX

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- Blood Gas Controls
- Cardiac Controls
- Clinical Chemistry Controls
- Coagulation and Haematology Controls
- Diabetes and Whole Blood Controls
- Immunoassay Controls

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#	5-HIAA																																																
	7-amino flunitrazepam																																																
	11 dhTXB$_2$																														x																	
	17-OH-progesterone																																								x		x	x					
	17β Clostebol																																																
	1-25-(OH$_2$)-Vitamin D																																										x	x	x				
	25-OH-Vitamin D																																										x	x	x				
A	α-1-Acid Glycoprotein														x	x	x			x	x																													
	α-1-Antitrypsin														x	x	x			x	x																													
	α-1-Globulin (Electrophoresis)															x	x	x		x	x																												
	α-2-Globulin (Electrophoresis)															x	x	x		x	x																												
	α-2-Macroglobulin																																																
	α-Fetoprotein (AFP)														x	x	x				x	x																						x		x	x			x	x	x
	α-HBDH														x	x	x	x	x	x	x	x	x	x	x																								
	Acetaminophen																																																
	Acid Phosphatase (Non-Prostatic)																		x				x		x																								
	Acid Phosphatase (Prostatic)														x	x	x	x	x				x	x	x																								
	Acid Phosphatase (Total)														x	x	x	x	x	x	x	x	x	x	x																								
	ACTH																																										x	x					
	Activated Partical Thromboplastin Time (APTT)																																x																	
	Adiponectin																																								x									
	AHD																																																	
	Albumin														x	x	x	x	x	x	x	x	x	x	x																								
	Albumin (Electrophoresis)															x	x	x		x	x																												
	Aldolase																									x																							
	Aldosterone																																									x		x	x					
	Alkaline Phosphatase (ALP)														x	x	x	x	x	x	x	x	x	x	x																								
	ALT (GPT)														x	x	x	x	x	x	x	x	x	x	x																								
	Amikacin																x					x																					x		x	x					
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	AMOZ																																																	
	Amphetamine																																																	
	Amylase														x	x	x	x	x	x	x	x	x	x	x																								
	Amylase (Pancreatic)														x	x	x	x	x	x	x	x			x																								
	Androstenedione																																											x	x					
	Anti-Streptolysin (ASO)																																																
	Anti-Thyroglobulin (Anti-TG)																																															x		
	Anti-Thyroperoxidase (Anti-TPO)																																															x		
	Anti-Thrombin III (AT III)																																x																	
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	Apolipoprotein A-I														x	x	x	x	x		x	x																												
	Apolipoprotein A-II																																																
	Apolipoprotein B														x	x	x	x	x		x	x																												
	Apolipoprotein C-II																																																
	Apolipoprotein C-III																																																
	Apolipoprotein E																																																
	AST (GOT)														x	x	x	x	x	x	x	x	x	x	x																								
B	β-Globulin (Electrophoresis)																x	x	x		x	x																												
	β-2-Microglobulin																	x				x																					x		x	x			x	x	

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- Lipid Controls
- Speciality and Research Controls
- Therapeutic Drug Controls
- Toxicology Controls
- Urine Controls

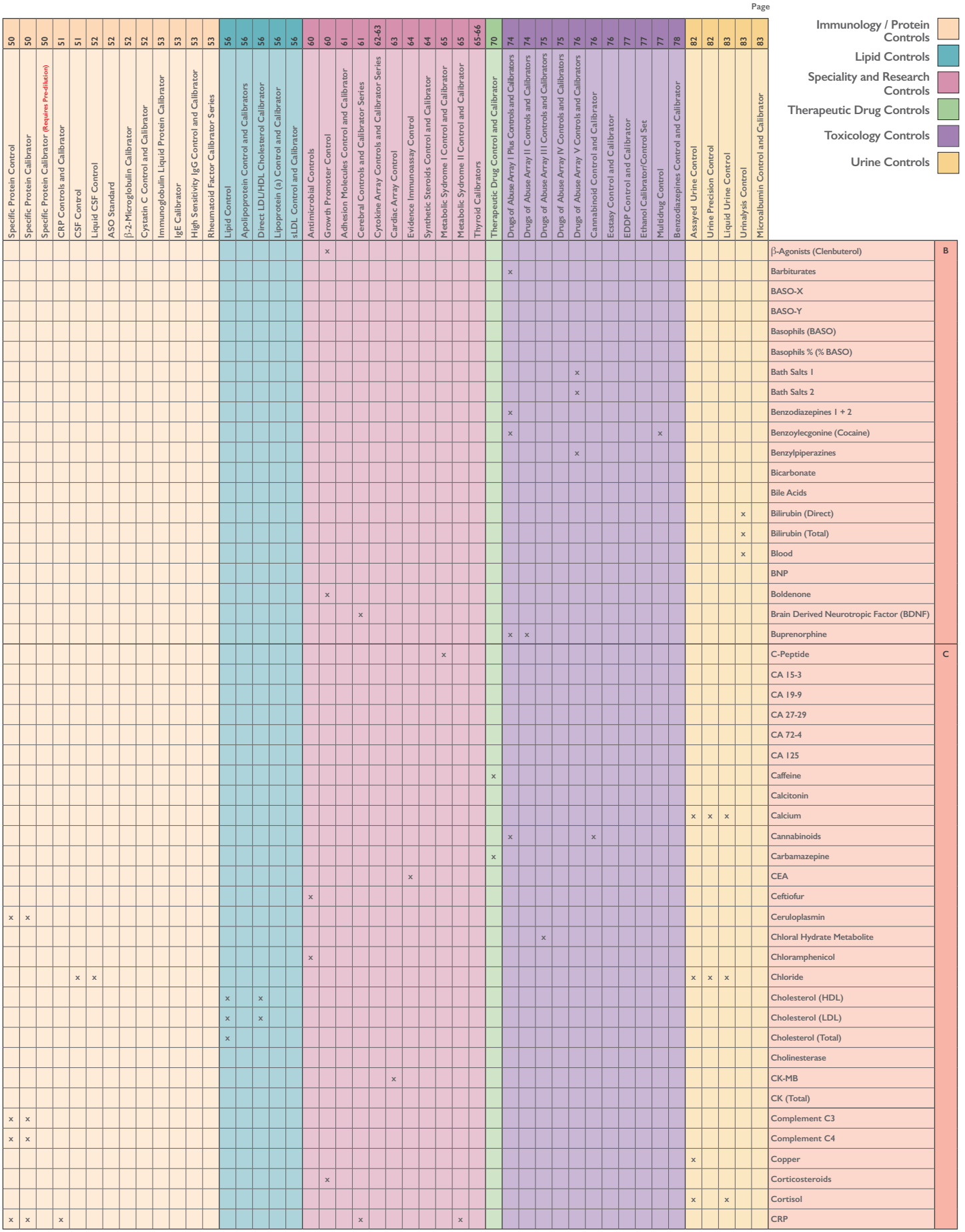
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																																									x					5-HIAA	#
																																x														7-amino flunitrazepam	
																																														11 dhTXB$_2$	
																																														17-OH-progesterone	
																								x																					17β Clostebol	
																																														1-25-(OH$_2$)-Vitamin D	
																																														25-OH-Vitamin D	
x		x																																												α-1-Acid Glycoprotein	A
x		x																																												α-1-Antitrypsin	
				x	x																																									α-1-Globulin (Electrophoresis)	
				x	x																																									α-2-Globulin (Electrophoresis)	
x																																														α-2-Macroglobulin	
x																																														α-Fetoprotein (AFP)	
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																																														Acid Phosphatase (Total)	
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																																														Aldolase	
																																														Aldosterone	
																																														Alkaline Phosphatase (ALP)	
																																														ALT (GPT)	
																													x																	Amikacin	
																																														Ammonia	
																		x																												AMOZ	
																														x																Amphetamine	
																																									x		x			Amylase	
																																														Amylase (Pancreatic)	
																																														Androstenedione	
x	x					x																																								Anti-Streptolysin (ASO)	
																																														Anti-Thyroglobulin (Anti-TG)	
																																														Anti-Thyroperoxidase (Anti-TPO)	
x																																														Anti-Thrombin III (AT III)	
																		x																												AOZ	
													x	x																																Apolipoprotein A-I	
														x																																Apolipoprotein A-II	
													x	x																																Apolipoprotein B	
														x																																Apolipoprotein C-II	
														x																																Apolipoprotein C-III	
														x																																Apolipoprotein E	
																																														AST (GOT)	
				x	x																																									β-Globulin (Electrophoresis)	B
x							x																																							β-2-Microglobulin	

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			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Chemistry Premium Control	Liquid Assayed Chemistry Premium Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Bovine Chemistry Precision Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Liquid Bilirubin Control	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control and Calibrator	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control
B	β-Agonists (Clenbuterol)																																																	
	Barbiturates																																																	
	BASO-X																																	x															
	BASO-Y																																	x															
	Basophils (BASO)																																	x															
	Basophils % (% BASO)																																	x															
	Bath Salts I																																																	
	Bath Salts 2																																																	
	Benzodiazepines I + 2																																																	
	Benzoylecgonine (Cocaine)																																																	
	Benzylpiperazines																																																	
	Bicarbonate						x									x	x	x	x		x	x	x	x	x																										
	Bile Acids															x	x	x	x		x	x	x	x	x																										
	Bilirubin (Direct)															x	x	x	x	x	x	x	x	x	x				x	x																				
	Bilirubin (Total)															x	x	x	x	x	x	x	x	x	x				x	x																				
	Blood																																																	
	BNP									x																																								
	Boldenone																																																	
	Brain Derived Neurotropic Factor (BDNF)																																																
	Buprenorphine																																																
C	C-Peptide																																											x		x	x	x				
	CA 15-3																																												x			x	x		
	CA 19-9																																												x			x	x		
	CA 27-29																																																x	
	CA 72-4																																															x	x	
	CA 125																																												x			x	x	
	Caffeine																	x				x																													
	Calcitonin																																															x	x			
	Calcium						x									x	x	x	x	x	x	x	x	x	x																											
	Cannabinoids																																																	
	Carbamazepine															x	x	x			x	x																						x		x	x					
	CEA															x	x	x			x	x																						x		x	x			x	x	
	Ceftiofur																																																	
	Ceruloplasmin															x	x	x			x	x																													
	Chloral Hydrate Metabolite																																																	
	Chloramphenicol																																																	
	Chloride						x									x	x	x	x	x	x	x	x	x	x																											
	Cholesterol (HDL)															x	x	x	x		x	x																													
	Cholesterol (LDL)																x	x			x	x																													
	Cholesterol (Total)															x	x	x	x	x	x	x	x	x	x																										
	Cholinesterase															x	x	x	x	x	x	x			x																										
	CK-MB							x	x			x																																							
	CK (Total)							x								x	x	x	x	x	x	x	x	x	x																										
	Complement C3															x	x	x			x	x																													
	Complement C4															x	x	x			x	x																													
	Copper															x	x	x	x		x	x	x	x	x																										
	Corticosteroids																																																	
	Cortisol															x	x	x	x		x	x	x	x																				x		x	x					
	CRP															x	x	x			x	x																													

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C	Creatinine															×	×	×	×	×	×	×			×																								
	Cyclosporine																																															
	CYFRA 21																																													×	×	
	Cystatin C																																															
	D-3-Hydroxybutyrate															×	×	×	×		×	×	×	×	×																								
	D-dimer								×																																								
D	Dextromethorphan																																															
	DHEA-Sulphate																	×				×																					×		×	×				
	DIFF-X																																	×															
	DIFF-Y																																	×															
	Digoxin								×							×	×	×	×		×	×																					×		×	×				
	Dopamine																																																
E	E-Selectin (E-SEL)																																															
	EDDP																																															
	Eosinophils (EOS)																																	×															
	% Eosinophils (% EOS)																																	×															
	Epidermal Growth Factor (EGF)																																															
	Epinephrine																																															
	Escitalopram																																															
	Estriol																																															
	Ethanol																×	×			×	×				×																						
	Ethinylestradiol																																															
	Ethosuximide																																															
	Ethyl Glucuronide																																															
F	Factor II																																	×															
	Factor V																																	×															
	Factor VII																																	×															
	Factor VIII																																	×															
	Factor IX																																	×															
	Factor X																																	×															
	Factor XI																																	×															
	Factor XII																																	×															
	Fatty Acid Binding Protein (FABP)																																															
	Fentanyl																																															
	Ferritin															×	×	×			×	×																					×		×	×			×	×	
	Fibrinogen																																	×															
	Fluoxetine																																															
	Folate															×	×	×	×		×	×																					×		×	×				
	Fructosamine																																															
	FSC-X																																	×															
	FSH																	×				×																					×		×	×				
G	G-6-PDH																																				×											
	γ-Globulin (Electrophoresis)																×	×	×		×	×																											
	γGT															×	×	×	×	×	×	×	×	×	×																								
	Gastrin																																														×			
	Gentamicin															×	×	×	×		×	×																					×		×	×				
	Gestagens (Generic)																																															
	GLDH															×	×	×	×	×	×	×	×	×	×																								
	Glial Fibrillary Acidic Protein (GFAP)																																															

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Urine Controls

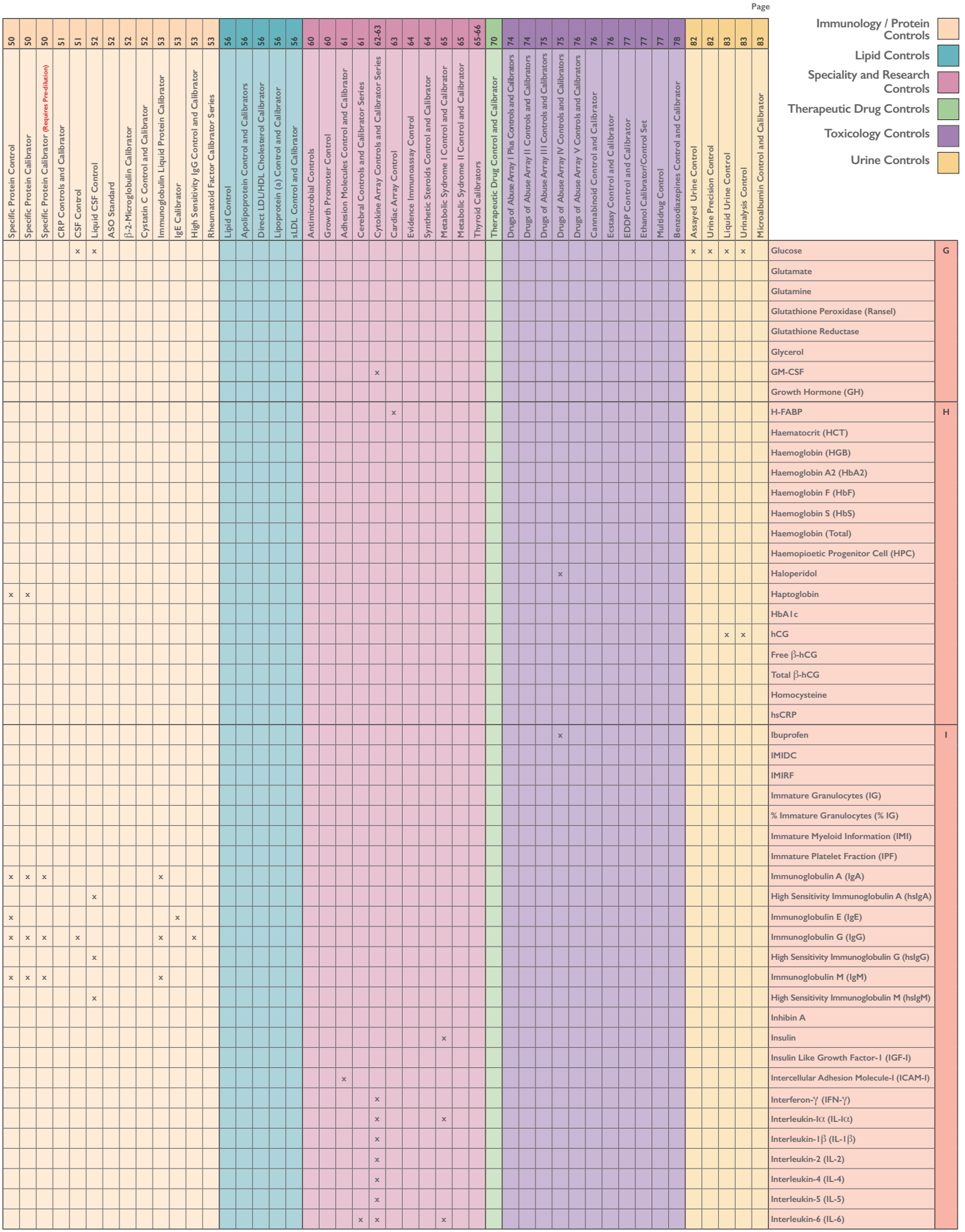
Specific Protein Control	Specific Protein Calibrator	Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator	CSF Control	Liquid CSF Control	ASO Standard	β-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	High 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		
50	50	50	51	51	52	52	52	52	53	53	53	53	56	56	56	56	56	60	60	61	61	62-63	63	64	64	65	65	65-66	70	74	74	75	75	76	76	76	77	77	77	78	82	82	83	83	83		
																														×	×	×	×								×	×	×	×	×	Creatinine	C
																													×																Cyclosporine	
																																													CYFRA 21	
								×																		×																		Cystatin C	
																																													D-3-Hydroxybutyrate	
																					×																								D-dimer	
																																	×												Dextromethorphan	D
																																													DHEA-Sulphate	
																																													DIFF-X	
																																													DIFF-Y	
																													×																Digoxin	
																																													Dopamine	
																				×																										E-Selectin (E-SEL)	E
																																						×								EDDP	
																																													Eosinophils (EOS)	
																																														% Eosinophils (% EOS)	
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																																															Ethanol	
																									×																				Ethinylestradiol	
																													×																Ethosuximide	
																																×														Ethyl Glucuronide	
																																															Factor II	F
																																															Factor V	
																																															Factor VII	
																																															Factor VIII	
																																															Factor IX	
																																															Factor X	
																																															Factor XI	
																																															Factor XII	
																					×																										Fatty Acid Binding Protein (FABP)	
																															×	×														Fentanyl	
×	×																									×																				Ferritin	
																																															Fibrinogen	
																																	×												Fluoxetine	
																																															Folate	
																																															Fructosamine	
																																															FSC-X	
																								×																						FSH	
				×	×																																									G-6-PDH	G
																																																γ-Globulin (Electrophoresis)	
																																															γGT	
																																															Gastrin	
																													×																Gentamicin	
																									×																				Gestagens (Generic)	
																																															GLDH	
																					×																										Glial Fibrillary Acidic Protein (GFAP)	

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G	Glucose						×									×	×	×	×	×	×	×			×				×																					
	Glutamate																												×																				
	Glutamine																													×																				
	Glutathione Peroxidase (Ransel)			×																																													
	Glutathione Reductase		×																																														
	Glycerol																												×																				
	GM-CSF																																																
	Growth Hormone (GH)																	×																															
H	H-FABP														×																																			
	Haematocrit (HCT)																																		×														
	Haemoglobin (HGB)																																		×													
	Haemoglobin A2 (HbA2)																																								×							
	Haemoglobin F (HbF)																																								×							
	Haemoglobin S (HbS)																																								×							
	Haemoglobin (Total)																																				×											
	Haemopioetic Progenitor Cell (HPC)																																		×													
	Haloperidol																																															
	Haptoglobin															×	×	×			×	×																											
	HbA1c																																				×	×											
	hCG															×	×	×			×	×																											
	Free β-hCG																																															x
	Total β-hCG																																															x	x
	Homocysteine							×																																									
	hsCRP								×																																								
I	Ibuprofen																																																
	IMIDC																																				×												
	IMIRF																																				×												
	Immature Granulocytes (IG)																																				×												
	% Immature Granulocytes (% IG)																																				×												
	Immature Myeloid Information (IMI)																																				×												
	Immature Platelet Fraction (IPF)																																				×												
	Immunoglobulin A (IgA)															×	×	×	×	×	×	×																											
	High Sensitivity Immunoglobulin A (hsIgA)																																															
	Immunoglobulin E (IgE)															×	×	×			×	×																											
	Immunoglobulin G (IgG)															×	×	×	×	×	×	×																											
	High Sensitivity Immunoglobulin G (hsIgG)																																															
	Immunoglobulin M (IgM)															×	×	×	×	×	×	×																											
	High Sensitivity Immunoglobulin M (hsIgM)																																															
	Inhibin A																																															x
	Insulin															×		×	×	×																													
	Insulin Like Growth Factor-I (IGF-I)																																															
	Intercellular Adhesion Molecule-I (ICAM-I)																																															
	Interferon-γ (IFN-γ)																																															
	Interleukin-Iα (IL-Iα)																																															
	Interleukin-Iβ (IL-Iβ)																																															
	Interleukin-2 (IL-2)																																															
	Interleukin-4 (IL-4)																																															
	Interleukin-5 (IL-5)																																															
	Interleukin-6 (IL-6)																																															

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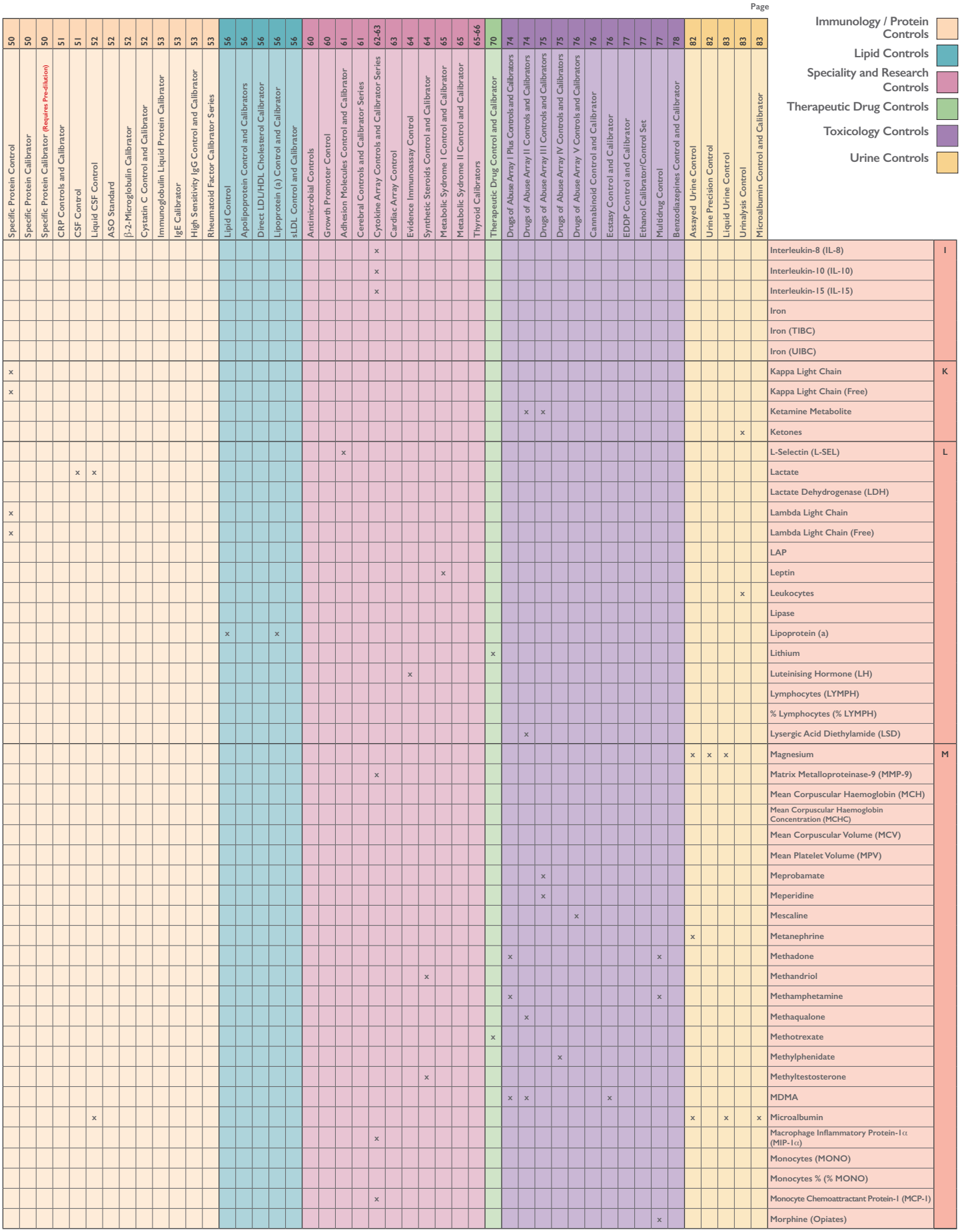


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I	Interleukin-8 (IL-8)																																														
	Interleukin-10 (IL-10)																																														
	Interleukin-15 (IL-15)																																														
	Iron														×	×	×	×	×	×	×	×	×	×																							
	Iron (TIBC)														×	×	×	×	×	×	×	×	×	×																							
	Iron (UIBC)														×	×	×		×																												
K	Kappa Light Chain																																														
	Kappa Light Chain (Free)																																														
	Ketamine Metabolite																																														
	Ketones																																														
L	L-Selectin (L-SEL)																																														
	Lactate						×								×	×	×	×	×	×	×	×	×	×						×																	
	Lactate Dehydrogenase (LDH)														×	×	×	×	×	×	×	×	×	×																							
	Lambda Light Chain																																														
	Lambda Light Chain (Free)																																														
	LAP														×	×	×	×	×	×	×			×																							
	Leptin																																														
	Leukocytes																																														
	Lipase														×	×	×	×	×	×	×	×	×	×																							
	Lipoprotein (a)															×	×			×	×																										
	Lithium														×	×	×	×	×	×	×	×	×	×																							
	Luteinising Hormone (LH)																×				×																					×		×	×					
	Lymphocytes (LYMPH)																																×																
	% Lymphocytes (% LYMPH)																																×																
	Lysergic Acid Diethylamide (LSD)																																															
M	Magnesium														×	×	×	×	×	×	×	×	×	×																							
	Matrix Metalloproteinase-9 (MMP-9)																																															
	Mean Corpuscular Haemoglobin (MCH)																																×																
	Mean Corpuscular Haemoglobin Concentration (MCHC)																																×																
	Mean Corpuscular Volume (MCV)																																×																
	Mean Platelet Volume (MPV)																																×																
	Meprobamate																																															
	Meperidine																																															
	Mescaline																																															
	Metanephrine																																															
	Methadone																																															
	Methandriol																																															
	Methamphetamine																																															
	Methaqualone																																															
	Methotrexate																																															
	Methylphenidate																																															
	Methyltestosterone																																															
	MDMA																																															
	Microalbumin																																															
	Macrophage Inflammatory Protein-1α (MIP-1α)																																															
	Monocytes (MONO)																																×																
	Monocytes % (% MONO)																																×																
	Monocyte Chemoattractant Protein-1 (MCP-1)																																															
	Morphine (Opiates)																																															

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			Glutathione Reductase Control and Calibrator	Glutathione Peroxidase (Ransel) Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control and Calibrator	Blood Gas Control	Cardiac Control	Liquid Cardiac Control	Liquid BNP Control	High Sensitivity Troponin T Control	CK-MB Control and Calibrator	Myoglobin Calibrator Series	H-FABP Control and Calibrator Series	Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Chemistry Premium Control	Liquid Assayed Chemistry Premium Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Bovine Chemistry Precision Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Bilirubin Elevated Serum	Liquid Bilirubin Control	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	TXB Cardio Control and Calibrator Series	Coagulation Control and Calibrator	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Haemoglobin F & A2 Control	Adiponectin Control and Calibrator	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Liquid Tumour Marker Control	Maternal Screening Control
M	Myoglobin							x	x				x		x	x	x			x	x																												
N	Nandrolone																																																
	NEFA														x				x				x																										
	Neuron-Specific Enolase (NSE)																																														x	x	
	Neutrophils (NEUT)																																	x															
	Neutrophils % (% NEUT)																																	x															
	Neutrophil Gelatinase-associated Lipocalin (NGAL)																																															
	Nitrite																																															
	Norepinephrine																																															
	Normetanephrine																																															
	NT-proBNP								x																																							
	Nucleated Red Blood Cells (NRBC)																																		x														
	Nucleated Red Blood Cells % (% NRBC)																																		x														
	Nucleated Red Blood Cells X (NRBC-X)																																		x														
	Nucleated Red Blood Cells Y (NRBC-Y)																																		x														
O	Oestradiol																																									x		x	x					
	Opiates																																																
	Osmolality														x	x	x	x		x	x	x	x	x																								
	Osteocalcin																																												x				
	Oxalate																																																
	Oxazepam																																																
	Oxycodone (I+II)																																															
P	P-Selectin (P-SEL)																																															
	Paracetamol														x	x	x	x		x	x																						x		x	x					
	PAPP-A																																															x
	pCO_2						x																																									
	pH						x																																									
	Phencyclidine																																															
	Phenobarbital														x	x	x				x	x																					x		x	x					
	Phenylpiperazines																																															
	Phenytoin														x	x	x				x	x																					x		x	x					
	Phosphate (Inorganic)														x	x	x	x	x	x	x	x	x	x	x																							
	Plasminogen																																		x														
	Plasminogen Activator Inhibitor																																															
	Platelet Distribution Width (PDW)																																			x														
	Platelet Large Cell Ratio (P-LCR)																																			x														
	Plateletcrit (PCT)																																			x														
	Platelet (PLT)																																			x														
	Platelet Optical Count (PLT-O)																																			x														
	pO_2						x																																									
	Potassium						x								x	x	x	x	x	x	x	x	x	x	x																							
	Prealbumin														x	x	x				x	x																											
	Primidone																																																
	Procalcitonin																																																
	Progesterone																	x					x																					x		x	x					
	Prolactin														x	x	x				x	x																					x		x	x					
	Propoxyphene																																															
	Protein C																																	x															
	Protein S																																	x															

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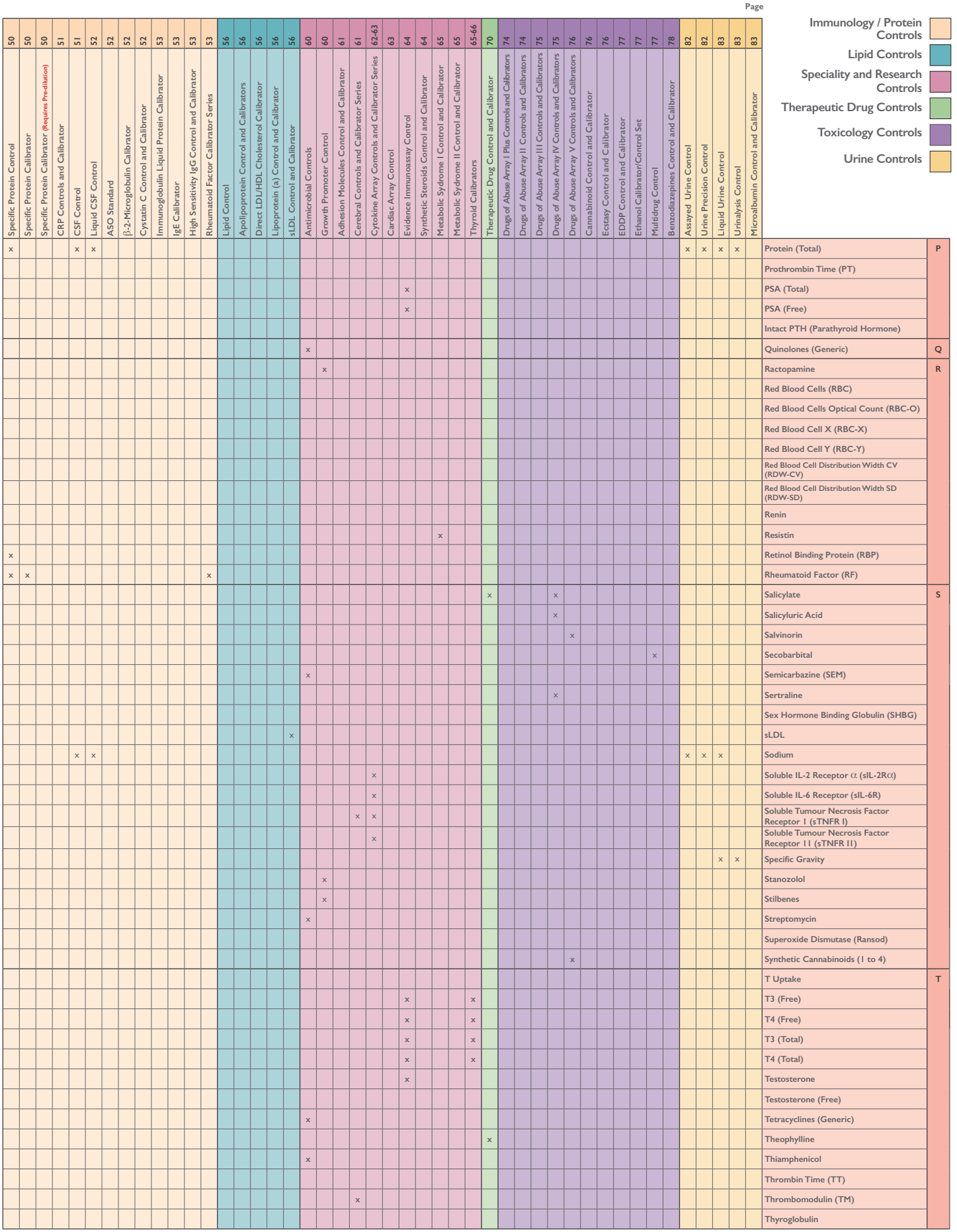
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																								x																				Myoglobin	M
																			x																								Nandrolone	N
																																											NEFA	
																					x																							Neuron-Specific Enolase (NSE)	
																																												Neutrophils (NEUT)	
																																												Neutrophils % (% NEUT)	
																					x																							Neutrophil Gelatinase-associated Lipocalin (NGAL)	
																																										x			Nitrite	
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																									x																				Oestradiol	O
																																x	x												Opiates	
																																								x	x	x			Osmolality	
																																													Osteocalcin	
																																								x					Oxalate	
																																													Oxazepam	
																																	x												Oxycodone (I+II)	
																					x																								P-Selectin (P-SEL)	P
																															x				x										Paracetamol	
																																													PAPP-A	
																																										x	x		pCO_2	
																																x												pH	
																															x														Phencyclidine	
																															x														Phenobarbital	
																																			x										Phenylpiperazines	
																															x														Phenytoin	
																																								x	x	x			Phosphate (Inorganic)	
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																																													Platelet Optical Count (PLT-O)	
																																													pO_2	
																																									x	x	x			Potassium	
x	x																																													Prealbumin	
																															x														Primidone	
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																									x																				Progesterone	
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																																	x												Propoxyphene	
																																													Protein C	
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P	Protein (Total)															×	×	×	×	×		×	×	×	×																									
	Prothrombin Time (PT)																																×																
	PSA (Total)															×	×		×		×	×	×	×																		×		×	×			×	×	
	PSA (Free)																																									×		×	×			×	×	
	PTH (Intact)																																									×				×				
Q	Quinolones (Generic)																																																	
R	Ractopamine																																																	
	Red Blood Cells (RBC)																																		×														
	Red Blood Cells Optical Count (RBC-O)																																		×														
	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)																																		×														
	Renin																																														×			
	Resistin																																																	
	Retinol Binding Protein (RBP)																																																	
	Rheumatoid Factor (RF)																																																	
S	Salicylate															×	×	×	×		×	×																				×		×	×						
	Salicyluric Acid																																																	
	Salvinorin																																																	
	Secobarbital																																																	
	Semicarbazine (SEM)																																																
	Sertraline																																																
	Sex Hormone Binding Globulin (SHBG)																																											×		×	×						
	sLDL																																																	
	Sodium						×									×	×	×	×	×	×	×	×	×	×																										
	Soluble IL-2 Receptor α (sIL-2Rα)																																																	
	Soluble IL-6 Receptor (sIL-6R)																																																	
	Soluble Tumour Necrosis Factor Receptor I (sTNFR I)																																																	
	Soluble Tumour Necrosis Factor Receptor II (sTNFR II)																																																	
	Specific Gravity																																																	
	Stanozolol																																																	
	Stilbenes																																																	
	Streptomycin																																																	
	Superoxide Dismutase (Ransod)				×																																												
	Synthetic Cannabinoids (1 to 4)																																																
T	T Uptake																	×				×																				×		×	×						
	T3 (Free)															×	×	×			×	×																				×		×	×						
	T4 (Free)															×	×	×	×		×	×	×	×																		×		×	×						
	T3 (Total)															×	×	×	×		×	×	×	×																		×		×	×						
	T4 (Total)															×	×	×	×		×	×	×	×																		×		×	×						
	Testosterone																	×				×																				×		×	×						
	Testosterone (Free)																																												×	×						
	Tetracyclines (Generic)																																																	
	Theophylline															×	×	×	×		×	×																				×		×	×						
	Thiamphenicol																																																	
	Thrombin Time (TT)																																	×															
	Thrombomodulin (TM)																																																	
	Thyroglobulin																																												×	×				×	×	

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T	Tobramycin															×			×																							×		×	×					
	Total Antioxidant Status (TAS)					×																																												
	Tramadol																																																	
	Transferrin															×	×	×	×	×	×	×																												
	Trazadone																																																	
	Trenbolone																																																	
	Tricyclic Antidepressants																																																
	Triglycerides															×	×	×	×	×	×	×	×	×	×																									
	Trimethoprim																																																
	Troponin I							×	×							×																																	
	Troponin T							×	×		×						×	×			×	×																												
	TSH															×	×	×			×	×																						×		×	×					
	Tumour Necrosis Factor α (TNFα)																																																
	Tylosin																																																
U	Unconjugated Estriol																																																×
	Urea															×	×	×	×	×	×	×	×	×	×																									
	Uric Acid (Urate)															×	×	×	×	×	×	×	×	×	×																									
	Urobilinogen																																																
V	Valproic acid															×	×	×			×	×																						×		×	×					
	Vancomycin															×	×	×			×	×																						×		×	×					
	Vanillylmandelic Acid (VMA)																																																
	Vascular Cell Adhesion Molecule-1 (VCAM-1)																																																
	Vascular Endothelial Growth Factor (VEGF)																																																
	Vitamin B_{12}															×	×	×	×		×	×	×																						×		×	×					
W	White Blood Cells (WBC)																																			×														
	White Blood Cells Differential (WBC-D)																																			×														
Z	Zaleplon																																																	
	Zeronal																																																	
	Zinc															×	×	×	×		×	×	×	×	×																									
	Zolpidem																																																	
	Zopiclone																																																	

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50	50	50	51	51	52	52	52	52	53	53	53	53	56	56	56	56	56	60	60	61	61	62-63	63	64	64	65	65	65-66	70	74	74	75	75	76	76	76	77	77	77	78	82	82	83	83	83		
																													x																		Tobramycin	T
																																														Total Antioxidant Status (TAS)	
																																x													Tramadol	
x	x																																												Transferrin	
																																x													Trazadone	
																			x																									Trenbolone	
																														x			x												Tricyclic Antidepressants	
													x																																	Triglycerides	
																		x																												Trimethoprim	
																							x																						Troponin I	
																																													Troponin T	
																								x				x																	TSH	
																						x				x																			Tumour Necrosis Factor α (TNFα)	
																		x																												Tylosin	
																																														Unconjugated Estriol	U
																																										x	x	x			Urea	
																																										x	x	x			Uric Acid (Urate)	
																																												x		Urobilinogen	
																													x																		Valproic acid	V
																													x																		Vancomycin	
																																										x					Vanillylmandelic Acid (VMA)	
																				x																										Vascular Cell Adhesion Molecule-1 (VCAM-1)	
																						x																								Vascular Endothelial Growth Factor (VEGF)	
																																															Vitamin B_{12}	
																																															White Blood Cells (WBC)	W
																																															White Blood Cells Differential (WBC-D)	
																																x																Zaleplon	Z
																			x																												Zeronal	
																																															Zinc	
																																x																Zolpidem	
																																x																Zopiclone	

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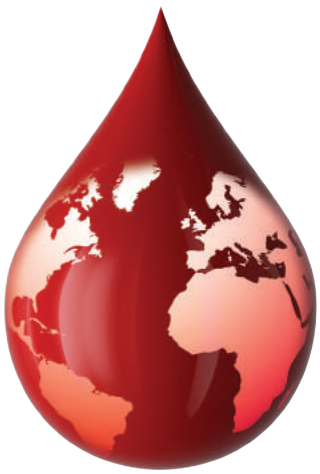
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CONTACT US

Contact us for more information on any of our products and services:

Head Quarters

Randox Laboratories Ltd, 55 Diamond Road, Crumlin, County Antrim, BT29 4QY, United Kingdom

☎ +44 (0) 28 9442 2413 ✉ marketing@randox.com randoxqc.com

International Offices



AUSTRALIA
Randox (Australia) Pty Ltd.
Tel: +61 (0) 2 9615 4640



BRAZIL
Randox Brasil Ltda.
Tel: +55 11 5181-2024



CHINA
Randox Laboratories Ltd.
Tel: +86 021 6288 6240



CZECH REPUBLIC
Randox Laboratories S.R.O.
Tel: +420 2 1115 1661



FRANCE
Laboratoires Randox
Tel: +33 (0) 130 18 96 80



GERMANY
Randox Laboratories GmbH
Tel: +49 (0) 215 1937 0611



HONG KONG
Randox Laboratories Hong Kong Limited
Tel: +852 3595 0515



ITALY
Randox Laboratories Ltd.
Tel: +39 06 9896 8954



INDIA
Randox Laboratories India Pvt Ltd.
Tel: +91 80 2802 5000



POLAND
Randox Laboratories Polska Sp. z o.o.
Tel: +48 22 862 1080



PORTUGAL
Irlandox Laboratorios Quimica Analitica Ltda
Tel: +351 22 589 8320



PUERTO RICO
Clinical Diagnostics of Puerto Rico, LLC
Tel: +1 787 701 7000



REPUBLIC OF IRELAND
Randox Teoranta
Tel: +353 7495 22600



SLOVAKIA
Randox S.R.O.
Tel: +421 2 6381 3324



SOUTH AFRICA
Randox Laboratories SA (Pty) Ltd.
Tel: +27 (0) 11 312 3590



SOUTH KOREA
Randox Korea
Tel: +82 (0) 31 478 3121



SPAIN
Laboratorios Randox S.L.
Tel: +34 93 475 09 64



SWITZERLAND
Randox Laboratories Ltd. (Switzerland)
Tel: +41 41 810 48 89



UAE
Randox Medical Equipments Trading LLC
Tel: +971 55 474 9075



USA
Randox Laboratories-US, Ltd.
Tel: +1 304 728 2890



VIETNAM
Randox Laboratories Ltd. Vietnam
Tel: +84 (0) 8 3911 0904

For technical support contact:

technical.services@randox.com

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