RANDOX

THIRD PARTY CONTROLS

ACUSERA

RANDOX
QUALITY CONTROL

ACUSERA

TRUE THIRD PARTY CONTROLS
OFFERING COMPLETE TEST MENU CONSOLIDATION

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

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BENEFITS

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

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

Commutability

All Acusera controls are designed to react to the test system in the same manner as the patient sample, helping to meet ISO 15189:2022 requirements whilst reducing inconvenient and costly shifts in QC results when reagent batch is changed.

Accurate Target Values

Our unique value assignment process utilises thousands of independent labs globally, ensuring availability of highly accurate, robust target values for a wide range of instruments and methods, 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 15189:2022 requirements whilst simultaneously eliminating the need for multiple instrument dedicated controls.

Shelf Life

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

Consistency

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

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 randox.com, or contact your local Randox representative.

ISO REQUIREMENTS

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

Third Party Controls

"The use of third-party IQC material should be considered, either as an alternative to, or in addition to, control material supplied by the reagent or instrument manufacturer."

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

Commutability

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

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

Clinically Relevant Levels

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

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

Data Management

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

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

EQA

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

The Randox International Quality Assessment Scheme (RIQAS), is used by more than 65,000 laboratory participants in 134 countries and accredited to ISO 17043. As a result, we have RIQAS users on every continent who are registered for one or more of our 36 flexible EQA programmes, utilising the available data to ensure the quality and reliability of their results.

Consolidate and Save with Randox Acusera.

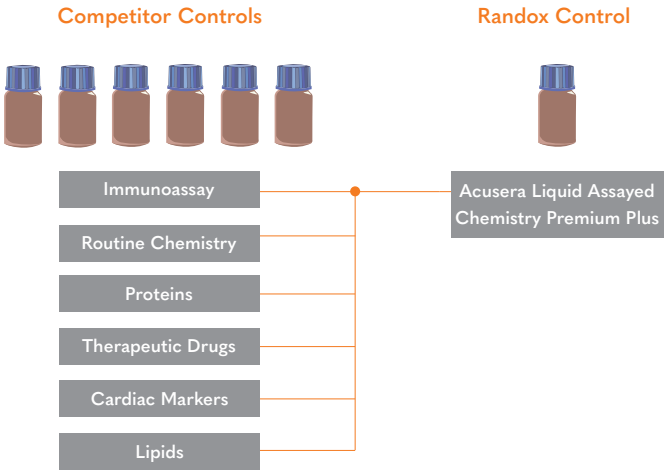
Randox is a leading provider of multi-analyte, true third party controls covering more than 400 analytes. The unique combination of analytes facilitates effective consolidation, helping your laboratory to reduce costs without compromising on performance or quality. Unlike some competitor products, our Acusera Controls are manufactured with analytes present at clinically relevant decision levels, eliminating the need to purchase additional high or low level controls, at extra expense.

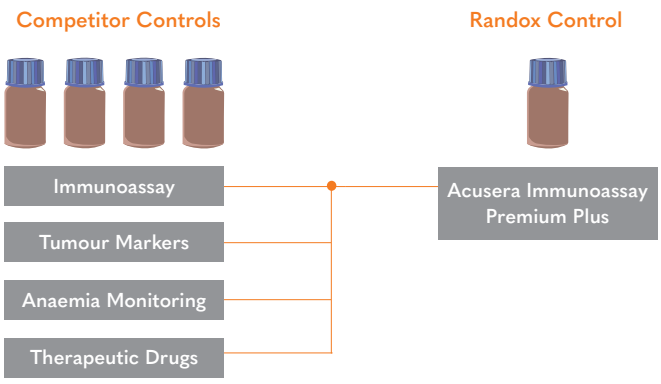
How can consolidating with Randox Acusera benefit you?

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

Liquid Assayed Chemistry Premium Plus Control

Uniquely combining up to 99 analytes including; routine chemistry, immunoassays, lipids, therapeutic drugs, proteins and cardiac markers in a single vial, you can experience effective consolidation and significant cost savings. The presence of CRP and other proteins at elevated levels will not only help to ensure accurate instrument performance at key decision levels but further reduce the number of individual controls required. - *turn to page 23 for more information*





Immunoassay Premium Plus Control

Impressively covering 54 analytes including tumour markers, therapeutic drugs and routine immunoassay tests, the Acusera Immunoassay Premium Plus control has been uniquely designed to eliminate the need for four or more controls, dramatically reducing costs and time. The added advantage of ultra-low levels of Ferritin, Vitamin B_{12} and TSH will help to ensure accurate performance at key decision levels and further reduce the number of controls required. - *turn to page 38 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".

ISO13485:2016

The International Organisation for Standardisation (ISO) is the largest developer and publisher of international standards in the world. In 2016, Randox was accredited with **ISO13485:2016** approval. **ISO13485:2016** relates to the design/development, manufacture, service and distribution of in vitro diagnostic medical devices, in vitro diagnostic test kits, in vitro diagnostic reagents and in vitro diagnostic analysers.

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

FDA Cleared

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

CE Mark

Many of our Quality Control (QC) products are CE certified under IVDD 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 DIRECTIVE 98/79/EC on in vitro diagnostic medical devices. It also demonstrates the fact the product is fit for its intended purpose.

Currently Randox Laboratories Limited is working towards CE marking under In Vitro Medical Devices Regulation (EU) 2017/746 (IVDR). This work will be completed within the IVDR transitional provisions detailed in Regulation (EU) 2022/112 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. 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 the EU.

UKCA

The UKCA (UK Conformity Assessed) marking is a UK product marking used for certain goods (including IVDs) being placed on the Great Britain market (England, Wales and Scotland). Manufacturers of medical devices can use either the UKCA marking or the CE marking on devices they place on the Great Britain market. The UK will continue to accept CE marked products until July 2030. Currently, to place a UKCA mark on a device, the device must meet the requirements of the UK MDR 2002 (requirements are similar to the IVD Directive 98/79/EC). UKCA marking on a product indicates that the product complies with and has satisfied the essential requirements set out by the UK MDR 2002. It also demonstrates the fact the product is fit for its intended purpose

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Note: Under the terms of the Northern Ireland Protocol the rules for placing medical devices on the Northern Ireland market differ from those applicable to Great Britian. EU IVDR has applied in Northern Ireland since 26 May 2022 therefore CE marking is required for the Northern Ireland market.

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 Medical Device Regulation SOR/98-282. Health Canada reviews all medical devices to assess their safety, effectiveness and quality before they are authorised for sale.

RESOURCE HUB

Visit our Resource Hub – randox.com/resource-hub to find a wealth of information to help your laboratory with all your Quality Control requirements, training, accreditation support and so much more.

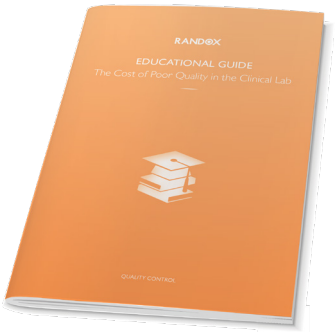
Have a topic of interest that you're keen on finding out more on, send us an email and request any information we have – qualitycontrol@randox.com

Brochures

All Randox Quality Control brochures can be found on this resource hub, whether you're looking for more information on our range of internal quality controls, external quality assessment of interlaboratory data management software – all brochures are available to download.

Educational Guides

Randox help to support laboratories by providing thought-provoking, market leading insights and multiple laboratory related topics of interest. Our range of educational material includes meeting ISO 15189 accreditation requirements, commutability, how to establish QC reference ranges and many more.



Videos

We have a range of videos including our promotional video and a full portfolio of educational webinars and tutorials. Find out more on how to interpret RIQAS reports, the role of EQA in QC management, utilising QC software and metrics to help identify performance metrics.

Posters

Download and print off our range of posters to decorate your work environment, find out the difference between IQC and EQA, using QC multi-rules, monitor your EQA performance and more.

ANTIOXIDANT CONTROLS

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

Antioxidant Product Range			
Product Description	Size	Cat No	Page No
Glutathione Peroxidase (Ransel) Control	10 x 1 ml	SC692	09
Glutathione Peroxidase (Ransel) Calibrator	10 x 1 ml	SC10154	09
Glutathione Reductase Control	10 x 5 ml	GR2608	09
Glutathione Reductase Calibrator	10 x 5 ml	GR2609	09
Superoxide Dismutase (Ransod) Control	10 x 1 ml	SD126	09
Total Antioxidant Status (TAS) Control	10 x 5 ml	NX2331	09
Total Antioxidant Status (TAS) Calibrator	10 x 1 ml	NX2332	09


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

ANTIOXIDANTS

Glutathione Peroxidase (Ransel) Control and Calibrator

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

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

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

Glutathione Reductase Control and Calibrator

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

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

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

Superoxide Dismutase (Ransod) Control

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

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- **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

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

Description	Size	Cat No
Total Antioxidant Status Control	10 x 5 ml	NX2331
Total Antioxidant Status Calibrator	10 x 1 ml	NX2332

BLOOD GAS CONTROLS

Blood Gas tests can provide crucial information for medical professionals in acute care environments. As such, the results they produce must be accurate and reliable to ensure correct patient diagnosis and subsequent treatment. Used in both clinical laboratories and at the point-of-care, our Acusera Blood Gas Controls have been designed to ensure ease-of-use and peace of mind. The liquid ready-to-use format ensures that no preparation time is needed and controls can be easily stored both on the ward and in the laboratory at 2°C to 8°C.

BLOOD GAS

Blood Gas Product Range			
Product Description	Size	Cat No	Page No
Blood Gas Control Level 1	30 x 1.8 ml	BG5001	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 analytes including electrolytes and lactate, the Acusera Blood Gas control is designed to meet the demands of today's blood gas analysers. Supplied in convenient, easy to open ampoules and in a liquid ready-to-use format, preparation is kept to an absolute minimum, making this control ideally suited for POC testing. As a true third party control, assayed target values are provided, ensuring unbiased performance assessment.

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

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

CARDIAC CONTROLS

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

Cardiac Product Range			
Product Description	Size	Cat No	Page No
BNP Controls (Beckman)	3 x 1 x 1 ml	CQ10520	15
BNP Controls (Abbott)	3 x 1 x 1 ml	CQ10521	15
BNP Controls (Siemens)	3 x 1 x 1 ml	CQ10522	15
Cardiac Control Ultra Low (Abbott & Roche)	3 x 3 ml	CQ10453	15
Cardiac Control Ultra Low (Siemens)	6 x 1 ml	CQ10428	15
Cardiac Control Level 1 (Siemens)	6 x 1 ml	CQ10429	15
Cardiac Control Level 2 (Siemens)	6 x 1 ml	CQ10430	15
Cardiac Control Level 3 (Siemens)	6 x 1 ml	CQ10431	15
CK-MB Control	10 x 2 ml	CK1212	16
CK-MB Calibrator	10 x 1 ml	CK2393	16
Tri-Level Cardiac Control	3 x 1 ml	CQ3100	16
Tri-Level Cardiac Control	3 x 2 ml	CQ3259	16
Troponin T Control	6 x 3 ml	CQ10450	16

Liquid
ready-to-use

Liquid
frozen

Lyophilised for
enhanced stability

Assayed target
values provided

100% human
matrix

CARDIAC

NEW

BNP Control

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

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

Description	Size	Cat No
BNP Controls (Beckman)	3 x 1 x 1 ml	CQ10520
BNP Controls (Abbott)	3 x 1 x 1 ml	CQ10521
BNP Controls (Siemens)	3 x 1 x 1 ml	CQ10522

Cardiac Control

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

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

Information in relation to Abbott & Roche Control

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

Information in relation to Siemens Controls

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

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

CK-MB Control and Calibrator

Analytes	
CK-MB	CK-NAC*

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

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

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

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

Tri-Level Cardiac Control

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

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

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

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

*** Only available in level 2 and level 3**

NEW

Troponin T Control

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

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

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

CLINICAL CHEMISTRY CONTROLS

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

Clinical Chemistry Product Range			
Product Description	Size	Cat No	Page No
Aldolase Calibrator	3 x 1 ml	AD5000	19
Aldolase Control Level 2	3 x 1 ml	AD5001	19
Aldolase Control Level 3	3 x 1 ml	AD5002	19
Ammonia Ethanol Control Level 1	6 x 2 ml	EA1366	19
Ammonia Ethanol Control Level 2	6 x 2 ml	EA1367	19
Ammonia Ethanol Control Level 3	6 x 2 ml	EA1368	19
Assayed Chemistry Premium Plus Level 2	20 x 5 ml	HN1530	20
Assayed Chemistry Premium Plus Level 3	20 x 5 ml	HE1532	20
Assayed Chemistry Premium Plus Level 2 & 3	2 x 5 x 5 ml	HS2611	20
Bilirubin Elevated Serum	10 x 3 ml	BE454	20
Bovine Chemistry Assayed Level 1	20 x 5 ml	AL1027	21
Bovine Chemistry Assayed Level 2	20 x 5 ml	AN1026	21
Bovine Chemistry Assayed Level 3	20 x 5 ml	AE1032	21
Clinical Chemistry Calibration Serum Level 2	20 x 5 ml	CAL2350	22
Clinical Chemistry Calibration Serum Level 3	20 x 5 ml	CAL2351	22
Ethanol Calibrator/Control Set	4 x 10 ml	DA2703	22
Glycerol Control	3 x 5 ml	GY1369	22
Liquid Assayed Chemistry Premium Plus Level 1	12 x 5 ml	LAL4213	23
Liquid Assayed Chemistry Premium Plus Level 2	12 x 5 ml	LAN4214	23
Liquid Assayed Chemistry Premium Plus Level 3	12 x 5 ml	LAE4215	23
Liquid Bilirubin Control Level 1	3 x 3 ml	BR10442	24
Liquid Bilirubin Control Level 2	3 x 3 ml	BR10443	24
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069	24
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070	24
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071	24
Multi Calibrator	3 x 2 ml	MC1382	25
Precision Chemistry Premium Plus Level 2	20 x 5 ml	UN1557	25
Precision Chemistry Premium Plus Level 3	20 x 5 ml	UE1558	25
Serum Indices Control	4 x 5 ml	SI10448	26


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

CLINICAL CHEMISTRY

Aldolase Control and Calibrator

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

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

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

Ammonia Ethanol Control

Analytes	
Ammonia	Ethanol

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

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

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

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 (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)
Lipase
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 66 analytes in a single vial for maximum efficiency. As a true third party control, assayed instrument, method and temperature specific target values are provided for an extensive range of clinical chemistry analysers, reducing the need to assign values in-house. Also provided are electrophoresis targets as a % breakdown of total protein.

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

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

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

CLINICAL CHEMISTRY

Bovine Chemistry Assayed Control

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

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 45 analytes. Due to its bovine serum matrix and inclusion of common veterinary markers; NEFA, Bile Acids, Lactate and D-3 Hydroxybutyrate, the Acusera Bovine Chemistry Assayed Control delivers a cost effective solution especially suited to veterinary laboratories.

- **Lyophilised for enhanced stability**
- **Bovine based serum**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of up to 7 days at 2°C to 8°C or 28 days at -20°C**
- **GLDH is stable for 1 day at 2°C to 8°C and TIBC (AL1027 Only) is stable for 4 days at 2°C to 8°C**

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

Clinical Chemistry Calibration Serum

Analytes

Cardiac
CK (Total)

Drugs
Lithium

Lipids
Cholesterol
Triglycerides

Proteins
Protein (Total)

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

Trace Metals
Copper
Zinc

Comprising 38 analytes in a single vial, this multi-analyte, third party calibrator is designed for use with a wide range of clinical chemistry platforms. Assayed, instrument, method and temperature specific values are supplied, ensuring accurate and reliable instrument calibration.

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

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

Ethanol Calibrator/Control Set

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

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

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

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

Liquid Assayed Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin T

Drugs
Amikacin
Caffeine
Carbamazepine
Digoxin
Ethanol
Gentamicin
Lithium
Paracetamol
Phenobarbitone
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
ACE (Angiotensin Converting Enzyme)*
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)
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 frozen**
- **Human based serum**
- **Assayed instrument specific target values and ranges**
- **High levels of CRP and other proteins eliminate the need for multiple controls**
- **Stable to expiry when stored at -20°C to -80°C**
- **Open vial stability of up to 7 days at 2°C to 8°C**

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

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

NEW

Liquid Bilirubin Control

Analytes

Bilirubin (Direct)	Bilirubin (Total)

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

- **Liquid frozen**
- **100% human serum**
- **Stable to expiry when stored at -20°C to -80°C**
- **Open vial stability of 7 days at 2°C to 8°C**
- **Elevated levels of Bilirubin ensure clinical decision levels are met**

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

Liquid Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin T

Drugs
Amikacin
Caffeine
Carbamazepine
Digoxin
Ethanol
Gentamicin
Lithium
Paracetamol
Phenobarbitone
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
ACE (Angiotensin Converting Enzyme)*
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 100 analytes in total, the Acusera Liquid Chemistry Premium Plus control is one of the most comprehensive available. Our vast analyte menu allows complete consolidation, eliminating the need to purchase additional controls at extra expense. As an unassayed, third party control it is ideal for monitoring precision on a wide range of laboratory analysers. Presented in a convenient liquid format for ease-of-use, minimal preparation is required.

- **Liquid frozen**
- **Human based serum**
- **High levels of CRP and other proteins eliminate the need for separate controls**
- **Stable to expiry date at -20°C to -80°C**
- **Open vial stability of up to 7 days at 2°C to 8°C**
- **Typical values provided for all analytes**

Description	Size	Cat No
Liquid Chemistry Premium Plus Level 1	12 x 5 ml	LUL5069
Liquid Chemistry Premium Plus Level 2	12 x 5 ml	LUN5070
Liquid Chemistry Premium Plus Level 3	12 x 5 ml	LUE5071

*No claims are made regarding values or stability

CLINICAL CHEMISTRY

Multi Calibrator

Analytes			
Ammonia	Glucose	Glutamate	Lactate

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

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

Description	Size	Cat No
Multi Calibrator	3 x 2 ml	MC1382

Precision Chemistry Premium Plus Control

Analytes

Cardiac
CK (Total)
Myoglobin
Troponin I

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

Immunoassay
α-Fetoprotein (AFP)
CEA
Cortisol
Folate
hCG
Prolactin
PSA (Total)
T3 (Free)
T3 (Total)
T4 (Free)
T4 (Total)
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 (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)
Lipase
Magnesium
Osmolality
Phosphate (Inorganic)
Potassium
Sodium
Urea
Uric Acid (Urate)

Trace Metals
Copper
Zinc

Our Precision Chemistry Premium Plus control conveniently covers 83 analytes; including a wide range of proteins, lipids and immunoassays making it perfect for consolidation. As an unassayed, third party control it is suitable for use with a wide range of clinical chemistry platforms.

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

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

NEW

Serum Indices Control

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

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

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

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

COAGULATION AND HAEMATOLOGY CONTROLS

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

COAGULATION AND HAEMATOLOGY

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

Liquid
ready-to-use

Liquid
frozen

Lyophilised for
enhanced stability

Assayed target
values provided

100% human
matrix

COAGULATION AND HAEMATOLOGY

Coagulation Control

Analytes

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

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

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

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

Haematology Control

Analytes

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

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

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

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

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

DIABETES AND WHOLE BLOOD CONTROLS

This Acusera Diabetes range provides a true third party solution for key tests used in the diagnosis and monitoring of diabetes and haemoglobin variants. Designed for use on multiple platforms, an independent assessment of performance is guaranteed. An extended reconstituted stability of four weeks for many controls will not only keep waste to a minimum but will help to reduce costs. As with all Acusera controls, laboratories can expect to experience reduced preparation time and costs without compromising on consistency or quality.

DIABETES AND WHOLE BLOOD

Diabetes and Whole Blood Product Range			
Product Description	Size	Cat No	Page No
Fructosamine Control Level 1	3 x 1 ml	FR2994	32
Fructosamine Control Level 3	3 x 1 ml	FR2996	32
Fructosamine Calibrator	3 x 1 ml	FR2993	32
G-6PDH Control Deficient	6 x 0.5 ml	PD2617	32
G-6PDH Control Normal	6 x 0.5 ml	PD2618	32
HbA1c Control Set Level 1 and 2	2 x 2 x 0.5 ml	HA5072	32
HbA1c Calibrator Series	5 x 2 ml, 1 x 8 ml	HA3444	32
Liquid HbA1c Control Level 1	6 x 1 ml	HA10224	33
Liquid HbA1c Control Level 2	6 x 1 ml	HA10225	33
Liquid HbA1c Control Set	2 x 2 x 0.5 ml	HA10155	33

Liquid
ready-to-use

Liquid
frozen

Lyophilised for
enhanced stability

Assayed target
values provided

100% human
matrix

Fructosamine Control and Calibrator

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

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

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

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

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

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

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

HbA1c Control and Calibrator Series

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

Control

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

Calibrator

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

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

DIABETES AND WHOLE BLOOD

Liquid HbA1c Control

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

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

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

IMMUNOASSAY CONTROLS

As one of the most comprehensive control ranges on the market, the Acusera Immunoassay offering from Randox will streamline QC in any laboratory. With multiple immunoassay controls to choose from, combining up to 55 analytes in a single vial, choice and flexibility is guaranteed.
Our unique combination of analytes enables complete test menu consolidation, ultimately reducing costs without compromising on quality or performance.
All controls in our Immunoassay range are manufactured from 100% human serum. This matrix ensures the test system will react to the control in the same manner as a patient sample, therefore meeting ISO 15189:2022 requirements while also eliminating shifts in QC target values when reagent batch is changed.

IMMUNOASSAY

Immunoassay Product Range			
Product Description	Size	Cat No	Page No
AMH Control Level 1	3 x 2 ml	AMH10509	36
AMH Control Level 2	3 x 2 ml	AMH10514	36
AMH Control Level 3	3 x 2 ml	AMH10515	36
AMH Control Level 4	3 x 2 ml	AMH10516	36
Active Vitamin B12 Level 1	3 x 2 ml	VB10524	36
Active Vitamin B12 Level 2	3 x 2 ml	VB10524	36
Bone Markers (Serum) Control Level 1	6 x 2 ml	SBM10574	36
Bone Markers (Serum) Control Level 2	6 x 2 ml	SBM10587	36
Bone Markers (Serum) Control Level 3	6 x 2 ml	SBM10588	36
Bone Markers (Urine) Control Level 1	3 x 2 ml	UBM10573	36
Bone Markers (Urine) Control Level 2	3 x 2 ml	UBM10615	37
Immunoassay Premium Level 1	12 x 5 ml	IA2638	37
Immunoassay Premium Level 2	12 x 5 ml	IA2639	37
Immunoassay Premium Level 3	12 x 5 ml	IA2640	37
Immunoassay Premium Tri-Level	3 x 4 x 5 ml	IA2633	37
Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109	38
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110	38
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111	38
Immunoassay Premium Plus Tri-Level	3 x 4 x 5 ml	IA3112	38
Immunoassay Speciality I Level 1	5 x 2 ml	IAS3113	39
Immunoassay Speciality I Level 2	5 x 2 ml	IAS3114	39
Immunoassay Speciality I Level 3	5 x 2 ml	IAS3115	39
Immunoassay Speciality II Level 1	5 x 1 ml	IAS3117	39
Immunoassay Speciality II Level 2	5 x 1 ml	IAS3118	39
Immunoassay Speciality II Level 3	5 x 1 ml	IAS3119	39
Liquid Immunoassay Premium Tri-Level	3 x 4 x 5 ml	LIA3108	40
Maternal Screening Control Level 1	3 x 1 ml	MSS5024	40
Maternal Screening Control Level 2	3 x 1 ml	MSS5025	40
Maternal Screening Control Level 3	3 x 1 ml	MSS5026	40
Pre-eclampsia Level 1	3 x 2 ml	PE10527	41
Pre-eclampsia Level 2	3 x 2 ml	PE10528	41
Pre-eclampsia Level 3	3 x 2 ml	PE10529	41
PTH Control Level 1	3 x 3 ml	PTH10110	41
PTH Control Level 2	3 x 3 ml	PTH10111	41
PTH Control Level 3	3 x 3 ml	PTH10112	41
Tumour Marker Control Level 2	3 x 2 ml	TU5002	42
Tumour Marker Control Level 3	3 x 2 ml	TU5003	42
Ultra-Low PSA Control	6 x 1 ml	TU10523	42

Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

NEW Anti-Müllerian Hormone (AMH) Control

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

- **Liquid frozen**
- **Human based serum**
- **Available at recommended cut-off values for AMH**
- **Assayed target values and ranges for a wide range of immunoassay systems**
- **Stable to expiry date at -20°C to -80°C**
- **Open vial stability of 30 days at 2°C to 8°C**

Description	Size	Cat No
AMH Control Level 1	3 x 2 ml	AMH10509
AMH Control Level 2	3 x 2 ml	AMH10514
AMH Control Level 3	3 x 2 ml	AMH10515
AMH Control Level 4	3 x 2 ml	AMH10516

NEW Active Vitamin B12 Control

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

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

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

NEW Bone Markers (Serum) Control

Analytes		
Bone Alkaline Phosphatase (B-ALP)	N-MID Osteocalcin (OC)	Procollagen Type 1 N-Terminal Propeptide (P1NP)

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

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

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

IMMUNOASSAY

NEW

Bone Markers (Urine) Control

Analytes			
β-2-Microglobulin	Creatinine	Pyridinium Crosslinks	N-Telopeptide
C-Telopeptide*	Deoxypyridinoline	Pyridinoline*	

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

- **Lyophilised for enhanced stability**
- **Human based urine**
- **Assayed target values and ranges for a wide range of immunoassay systems**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of up to 14 days at 2°C to 8°C**

Description	Size	Cat No
Bone Markers (Urine) Control Level 1	3 x 2 ml	UBM10573
Bone Markers (Urine) Control Level 2	3 x 2 ml	UBM10615

***No claims are made regarding value or stability**

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	Phenobarbitone	T4 (Total)
α-Fetoprotein (AFP)	Ethosuximide	Phenytoin	Testosterone
ACTH+	Ferritin	Primidone	Testosterone (Free)*
Aldosterone	Folate	Progesterone	Theophylline
Amikacin	FSH	Prolactin	Thyroglobulin
Androstenedione	Gentamicin	PSA (Free)	Tobramycin
β-2-Microglobulin	Growth Hormone (GH)	PSA (Total)	TSH
C-Peptide	hCG	Salicylate	Valproic Acid
Carbamazepine	Immunoglobulin E (IgE)	Sex Hormone Binding Globulin (SHBG)	Vancomycin
CEA	Insulin	T Uptake	Vitamin B_{12}
Cortisol	Luteinising Hormone (LH)	T3 (Free)	

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 46 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**
- **Ultra low TSH levels in the level 1 control**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of up to 7 days at 2°C to 8°C, or up to 28 days at -20°C**

Description	Size	Cat No
Immunoassay Premium Level 1	12 x 5 ml	IA2638
Immunoassay Premium Level 2	12 x 5 ml	IA2639
Immunoassay Premium Level 3	12 x 5 ml	IA2640
Immunoassay Premium Tri-level	3 x 4 x 5 ml	IA2633

+Values may not be provided for all levels

***No claims are made regarding value or stability**

Immunoassay Premium Plus Control

Analytes			
17-OH-Progesterone	CEA	Luteinising Hormone (LH)	T3 (Total)
1-25-$(OH)_2$-Vitamin D*	Cortisol	Oestradiol	T4 (Free)
25-OH-Vitamin D	DHEA-Sulphate	Paracetamol	T4 (Total)
α-Fetoprotein (AFP)	Digoxin	Phenobarbitone	Testosterone
ACTH+	Estriol*	Phenytoin	Testosterone (Free)*
Aldosterone	Ethosuximide	Primidone	Theophylline
Amikacin	Ferritin	Progesterone	Thyroglobulin
Androstenedione	Folate	Prolactin	Tobramycin
β-2-Microglobulin	FSH	PSA (Free)	TSH
C-Peptide	Gentamicin	PSA (Total)	Valproic Acid
CA 15-3	Growth Hormone (GH)	Salicylate	Vancomycin
CA 19-9	hCG	Sex Hormone Binding Globulin (SHBG)	Vitamin B_{12}
CA 125	Immunoglobulin E (IgE)	T Uptake	
Carbamazepine	Insulin	T3 (Free)	

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

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

Description	Size	Cat No
Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111
Immunoassay Premium Plus Tri-level	3 x 4 x 5 ml	IA3112

+Values may not be provided for all levels

***No claims are made regarding value or stability**

IMMUNOASSAY

Immunoassay Speciality I Control

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

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

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

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

Immunoassay Speciality II Control

Analytes			
Calcitonin	Gastrin	Procalcitonin	Renin

Designed for the routine monitoring of more complex, specialised analytes, the Acusera Immunoassay Speciality II control complements our standard immunoassay controls. As a true third party control, assayed target values are supplied and unbiased performance assessment guaranteed.

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

Liquid Immunoassay Premium Control

Analytes			
17-OH-Progesterone	Ethosuximide	Paracetamol	T3 (Free)
α-Fetoprotein (AFP)	Ferritin	Phenobarbitone	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 frozen**
- **100% human serum**
- **Ferritin and Vitamin B_{12} levels suitable for Anaemia monitoring**
- **Stable to expiry date at -20°C to -80°C**
- **Open vial stability of up to 7 days at 2°C to 8°C**

Description	Size	Cat No
Liquid Immunoassay Premium Tri-Level	3 x 4 x 5 ml	LIA3108

Maternal Screening Control

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

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

IMMUNOASSAY

NEW

Pre-eclampsia Control

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

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

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

PTH Control

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

- **Liquid frozen**
- **100% human serum**
- **Assayed target values and ranges for a wide range of immunoassay systems**
- **Stable to expiry date at -20°C to -80°C**
- **Open vial stability of 30 days at 2°C to 8°C**

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

Tumour Marker Control

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

The multi-analyte Acusera Tumour Marker control has been designed for use in the daily monitoring of 15 routine and specialised tumour markers. This true third party control is provided with assayed target values and ranges for all analytes, ensuring an unbiased assessment of performance for a wide range of immunoassay instruments.

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

Description	Size	Cat No
Tumour Marker Control Level 2	3 x 2 ml	TU5002
Tumour Marker Control Level 3	3 x 2 ml	TU5003

NEW

Ultra Low PSA Control

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

- **Liquid ready-to-use**
- **Human Based Material**
- **Values for specific instruments are available**
- **Stable to expiry date at 2°C to 8°C**
- **Open vial stability of 30 days at 2°C to 8°C**

Description	Size	Cat No
Ultra-Low PSA Control	6 x 1 ml	TU10523

IMMUNOLOGY/ PROTEIN CONTROLS

The Acusera range of Immunology/Protein Controls has been designed to be both cost effective and convenient. Requiring no preparation or thawing, the liquid ready-to-use format will increase productivity and efficiency in even the most demanding laboratories.

Immunology/Protein Product Range			
Product Description	Size	Cat No	Page No
β-2-Microglobulin Calibrator	3 x 1 ml	BM10444	44
β-2-Microglobulin Calibrator	3 x 1 ml	BM1362	44
Canine CRP Control Level 2	3 x 1 ml	CP2803	44
Canine CRP Control Level 3	3 x 1 ml	CP2804	44
Liquid CRP Control Level 2	10 x 1 ml	CP2480	44
Liquid CRP Control Level 3	10 x 1 ml	CP2481	44
High Sensitivity CRP Control Level 1	10 x 1 ml	CP2476	44
High Sensitivity CRP Control Level 2	10 x 1 ml	CP2477	44
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478	44
CRP Full Range Calibrator	6 x 1 ml	CP2499	44
CSF Control Level 2	10 x 3 ml	CF1500	45
CSF Control Level 3	10 x 3 ml	CF1501	45
Cystatin C Control Level 2	3 x 2 ml	CYS10446	45
Cystatin C Control Level 3	3 x 2 ml	CYS10447	45
Cystatin C Calibrator	5 x 2 ml	CYS10445	45
Cystatin C Control Level 2	3 x 2 ml	CYS5019	45
Cystatin C Control Level 3	3 x 2 ml	CYS5020	45
Cystatin C Calibrator	5 x 2 ml	CYS2699	45
IgE Calibrator Series	6 x 1 ml	IE2492	45
Immunoglobulin Liquid Protein Calibrator	3 x 1 ml	IT3861	46
Liquid CSF Control Level 1	10 x 3 ml	CF10138	46
Liquid CSF Control Level 2	10 x 3 ml	CF10139	46
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2691	47
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2692	47
Specific Protein Control Level 1	3 x 1 ml	PS2682	48
Specific Protein Control Level 2	3 x 1 ml	PS2683	48
Specific Protein Control Level 3	3 x 1 ml	PS2684	48
Specific Protein Control Level 1	6 x 3 ml	PS10221	48
Specific Protein Control Level 2	6 x 3 ml	PS10222	48
Specific Protein Control Level 3	6 x 3 ml	PS10223	48
sTfR Control Level 1 & 2	2 x 3 x 1 ml	TF10162	48
sTfR Calibrator	6 x 1 ml	TF10161	48
Xanthochromia Positive Control	6 x 4 ml	XN10505	49
Xanthochromia Negative Control	6 x 4 ml	XN10502	49

Liquid
ready-to-use

Liquid
frozen

Lyophilised for
enhanced stability

Assayed target
values provided

100% human
matrix

IMMUNOLOGY/PROTEIN

β-2-Microglobulin Calibrator

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

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

Description	Size	Cat No
β-2-Microglobulin Calibrator	3 x 1 ml	BM10444
β-2-Microglobulin Calibrator	3 x 1 ml	BM1362

Canine CRP Control

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

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

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

CRP Controls and Calibrator

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

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

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

CSF Control

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

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

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

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

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

Cystatin C Controls and Calibrators

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

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

For use with Calibrator CYS10445

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

For use with Calibrator CYS2699

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

IgE Calibrator

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

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

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

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**
- **Single point calibrator**

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

Liquid CSF Control

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

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

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

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

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

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**
- **Multi-point calibrator**

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

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

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

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

IMMUNOLOGY/PROTEIN

Specific Protein Control

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

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

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

Description	Size	Cat No
Specific Protein Control Level 1	3 x 1 ml	PS2682
Specific Protein Control Level 2	3 x 1 ml	PS2683
Specific Protein Control Level 3	3 x 1 ml	PS2684
Specific Protein Control Level 1	6 x 3 ml	PS10221
Specific Protein Control Level 2	6 x 3 ml	PS10222
Specific Protein Control Level 3	6 x 3 ml	PS10223

+**Not for use in USA**

Soluble Transferrin Receptor (sTfR) Control and Calibrator Series

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

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

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

NEW

Xanthochromia Control

Analytes	
Oxyhaemoglobin	Bilirubin

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

- **Liquid frozen**
- **Human Based Material**
- **Stable to for 11 Weeks at -18°C to -24°C or 24 Weeks at -70°C to -90°C**
- **Open vial stability of up to 2 days at 2°C to 8°C**

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

INFECTIOUS DISEASE CONTROLS (SEROLOGY)

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

INFECTIOUS DISEASE (SEROLOGY)

Infectious Disease (Serology) Product Range			
Product Description	Size	Cat No	Page No
EBV Positive Control	1 x 5 ml	SR10350	52
Lyme Disease Negative Control	1 x 5 ml	SR10345	52
Lyme Disease Positive Control	1 x 5 ml	SR10346	52
HIV-1 P24Ag Positive Control	1 x 5 ml	SR10458	53
Serology Negative Control	6 x 5 ml	SR10351	53
Serology I Positive Control	3 x 5 ml	SR10352	53
Serology II Positive Control	3 x 5 ml	SR10353	53
Serology III Positive Control	3 x 5 ml	SR10354	53
ToRCH Negative Control	6 x 5 ml	SR10347	54
ToRCH IgG Positive Control	3 x 5 ml	SR10348	54
ToRCH IgM Positive Control	3 x 5 ml	SR10349	54


Liquid ready-to-use


Liquid frozen


Lyophilised for enhanced stability


Assayed target values provided


100% human matrix

INFECTIOUS DISEASE (SEROLOGY)

Epstein Barr Virus (EBV) Control

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

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

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

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

Lyme Disease *(Borrelia burgdorferi)* Control

Analytes	
Borrelia burgdorferi IgG	*Borrelia burgdorferi* IgM

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

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

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

Serology Controls

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

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

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

Description	Size	Cat No
HIV-1 P24Ag Positive Control	1 x 5 ml	SR10458
HBeAg Positive Control	1 x 5 ml	SR10459
Serology Negative Control	6 x 5 ml	SR10351
Serology I Positive Control	3 x 5 ml	SR10352
Serology II Positive Control	3 x 5 ml	SR10353
Serology III Positive Control	3 x 5 ml	SR10354

INFECTIOUS DISEASE (SEROLOGY)

ToRCH Controls

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

Our ToRCH portfolio includes positive controls for both IgG and IgM antibodies in addition to a negative control. Each control is manufactured using human serum and is suitable for use with most immunoassay analysers. The availability of liquid ready-to-use samples helps to reduce preparation time and the potential for human error.

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

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

LIPID CONTROLS

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

LIPIDS

Lipid Product Range			
Product Description	Size	Cat No	Page No
Apolipoprotein Control Level 1	3 x 1 ml	LE5016	57
Apolipoprotein Control Level 2	3 x 1 ml	LE5017	57
Apolipoprotein Control Level 3	3 x 1 ml	LE5018	57
Apolipoprotein Calibrator	3 x 1 ml	LP3023	57
Apolipoprotein Calibrator 2	3 x 1 ml	LP5047	57
Direct HDL/LDL Cholesterol Calibrator (Clearance)	3 x 1 ml	CH2673	57
Lipid Control Level 1	5 x 1 ml	LE2668	58
Lipid Control Level 2	5 x 1 ml	LE2669	58
Lipid Control Level 3	5 x 1 ml	LE2670	58
Lipid Control Level 1	5 x 3 ml	LE2661	58
Lipid Control Level 2	5 x 3 ml	LE2662	58
Lipid Control Level 3	5 x 3 ml	LE2663	58
Lipoprotein (a) Control Level 3	3 x 1 ml	LP3406	58
Lipoprotein (a) Calibrator Series	5 x 1 ml	LP3404	58
sLDL Control Level 1	3 x 1 ml	LE5013	58
sLDL Control Level 2	3 x 1 ml	LE5014	58
sLDL Control Level 3	3 x 1 ml	LE5015	58
sLDL Calibrator	3 x 1 ml	CH5050	58

Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

Apolipoprotein Control and Calibrators

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

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

- **Lyophilised for enhanced stability**
- **100% human serum**
- **Stable to expiry date at 2°C to 8°C**
- **Control - reconstituted stability of 7 days at 2°C to 8°C for Apolipoprotein A-II, Apolipoprotein C-II and Apolipoprotein C-III, Apolipoprotein E is stable for 8 hours at 2°C to 8°C All analytes are stable for 4 weeks at -20°C**
- **Calibrator - reconstituted stability of 7 days at 2°C to 8°C for Apolipoprotein A-II and Apolipoprotein C-II, Apolipoprotein E is stable for 8 hours at 2°C to 8°C All analytes are stable for 4 weeks at -20°C**
- **Multi-point calibrator**

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

Direct LDL/HDL Cholesterol Calibrator

Analytes	
Cholesterol (HDL)	Cholesterol (LDL)

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

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

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

LIPIDS

Lipid Control

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

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

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

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

Lipoprotein (a) Control and Calibrator

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

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

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

sLDL Control and Calibrator

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

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

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

SPECIALITY AND RESEARCH CONTROLS

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

SPECIALITY AND RESEARCH

Speciality and Research Product Range			
Product Description	Size	Cat No	Page No
Adhesion Molecules Tri-Level Control	3 x 3 x 1 ml	EV3569	61
Adhesion Molecules Calibrator Series	9 x 1 ml	EV3568	61
Antimicrobial Control III	3 x 1 ml	AMC5036	61
Cerebral Array 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 IV Tri-Level Control	3 x 3 x 1 ml	CY5011	62
Metabolic Syndrome Array I Control	3 x 3 x 1 ml	EV3757	63
Metabolic Syndrome Array I Calibrator	9 x 1 ml	EV3756	63
Metabolic Syndrome Array II Control	3 x 3 x 1 ml	EV3761	63
Metabolic Syndrome Array II Calibrator	9 x 1 ml	EV3760	63
Synthetic Steroids Control	3 x 1 ml	EV3709	63

Liquid ready-to-use

Liquid frozen

Lyophilised for enhanced stability

Assayed target values provided

100% human matrix

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**
- **Recombinant proteins in buffer**
- **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

Antimicrobial Control III

Analytes			
AHD	AOZ	Chloramphenicol	Semicarbazine (SEM)
AMOZ			

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

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

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

Cerebral Array II Control

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

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

- **Lyophilised for enhanced stability**
- **Assayed values available for Randox Biochip systems**
- **Recombinant proteins in buffer**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 4 hours at 2°C to 8°C or 14 days at -80°C**

Description	Size	Cat No
Cerebral Array II Tri-Level Control	3 x 3 x 0.5 ml	CBB5009

SPECIALITY AND RESEARCH

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

Analytes		
Epidermal Growth Factor (EGF)	Interleukin-2 (IL-2)	Interleukin-10 (IL-10)
Interferon g (IFNg)	Interleukin-4 (IL-4)	Monocyte Chemoattractant Protein-1 (MCP-1)
Interleukin-1α (IL-1α)	Interleukin-6 (IL-6)	Tumour Necrosis Factor α (TNFα)
Interleukin-1β (IL-1β)	Interleukin-8 (IL-8)	Vascular Endothelial Growth Factor (VEGF)

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

- **Lyophilised for enhanced stability**
- **Assayed values available for Randox Biochip systems**
- **Recombinant proteins in buffer**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 4 hours at 2°C to 8°C or 14 days at -20°C**
- **High sensitivity - Reconstituted stability of 4 hours at 2°C to 8°C or 21 days at -20°C**

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

Cytokine Array III Control

Analytes	
GM-CSF	Interleukin-15 (IL-15)
Interleukin-5 (IL-5)	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**
- **Human based recombinant antigen**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 4 hours at 2°C to 8°C or 28 days at -20°C**

Description	Size	Cat No
Cytokine Array III Tri-Level Control	3 x 3 x 1 ml	CY5012

Cytokine Array IV Control

Analytes	
Matrix Metalloproteinase-9 (MMP-9)	Soluble 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**
- **Native human antigen in buffer**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 5 days at 2°C to 8°C or 14 days at -20°C**

Description	Size	Cat No
Cytokine Array IV Tri-Level Control	3 x 3 x 1 ml	CY5011

Metabolic Syndrome Array I Control and Calibrator

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

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

- **Assayed values available for Randox Biochip systems**
- **Native antigens in buffer base**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 4 hours at 2°C to 8°C and 28 days at -20°C**

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

Metabolic Syndrome Array II Control and Calibrator

Analytes		
Adiponectin	CRP	Cystatin C

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

- **Lyophilised for enhanced stability**
- **Assayed values available for Randox Biochip systems**
- **Recombinant antigen in buffer base**
- **Stable to expiry date at 2°C to 8°C**
- **Reconstituted stability of 8 hours at 2°C to 8°C and 28 days at -20°C**

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

Synthetic Steroids Control

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

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

THERAPEUTIC DRUG CONTROLS

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

THERAPEUTIC DRUG

Therapeutic Drug Product Range			
Product Description	Size	Cat No	Page No
Therapeutic Drug Calibrator	6 x 3 ml	TD3417	66
Therapeutic Drug Control Level 1	20 x 5 ml	HD1667	66
Therapeutic Drug Control Level 2	20 x 5 ml	HD1668	66
Therapeutic Drug Control Level 3	20 x 5 ml	HD1669	66

Liquid
ready-to-use

Liquid
frozen

Lyophilised for
enhanced stability

Assayed target
values provided

100% human
matrix

THERAPEUTIC DRUG

Therapeutic Drug Calibrator

Analytes			
Carbamazepine Digoxin	Phenobarbitone	Phenytoin	Valproic Acid

The Acusera Therapeutic Drug calibrator has been designed for use in the calibration of 5 therapeutic drug assays on clinical chemistry analysers. An extended stability of 28 days will help to reduce waste and costs.

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

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

Therapeutic Drug Control

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

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

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

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

URINE CONTROLS

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

URINE

Urine Product Range			
Product Description	Size	Cat No	Page No
Assayed Urine Control Level 2	12 x 10 ml	AU2352	69
Assayed Urine Control Level 3	12 x 10 ml	AU2353	69
Liquid Urine Control Level 2	10 x 10 ml	UC5074	69
Liquid Urine Control Level 3	10 x 10 ml	UC5075	69
Microalbumin Calibrator Series	6 x 2 ml	MA1567	70
Urinalysis Control Level 1	12 x 12 ml	UC5033	70
Urinalysis Control Level 2	12 x 12 ml	UC5034	70

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

***No claims are made regarding stability**

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**
- **Human urine based**
- **Stable to expiry date at 2°C to 8°C**
- **Open vial stability 30 days at 2°C to 8°C**

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

URINE

Microalbumin Calibrator

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

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

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

Urinalysis Control

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

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

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

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

INTER-LABORATORY DATA MANAGEMENT

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

ACUSERA 24•7

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

Unique dashboard interface

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

True real-time peer group statistics *

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

* T&Cs apply

Advanced statistical analysis

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

Fully interactive charts

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

Comprehensive reports

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

Automated data import via Acusera 24•7 Connect

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

BENEFITS

Highly flexible to meet individual laboratory needs

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

Simple and intuitive interface

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

Online access anytime, anywhere

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

Multiple lab management

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

Technical support

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

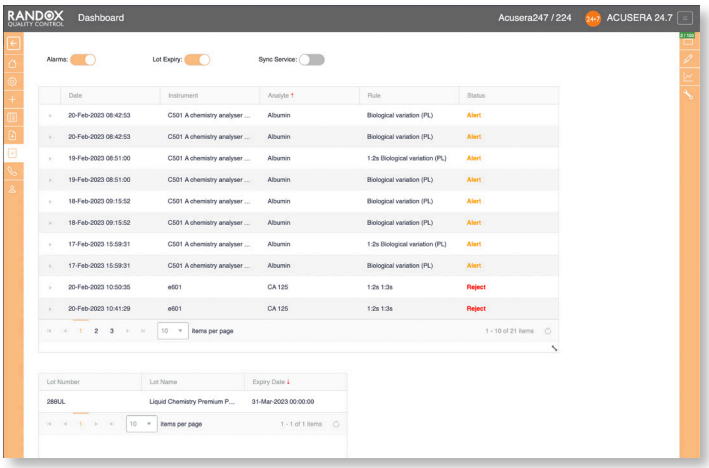
World class controls

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

ORDERING DETAILS

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

** 1 connection*

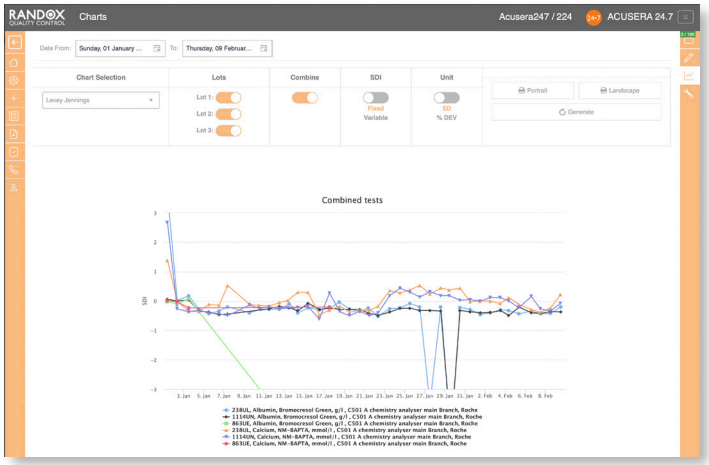


Dashboard

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

Acusera Advisor

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

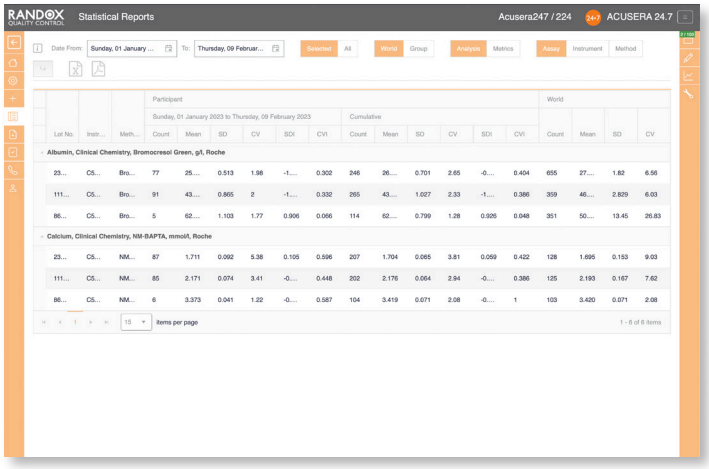


Interactive Charts

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

Peer Group Statistics

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



Advanced Statistical Analysis

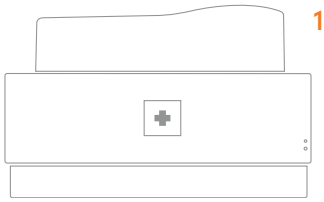
The Statistical Metrics Report incorporates %Bias, Total Error and a Sigma score for optimum QC strategy design while the Uncertainty of Measurement Report helps to meet ISO15189:2022 requirements.

DATA ENTRY OPTIONS

There are three options for QC data entry with Acusera 24•7

Manual result entry

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

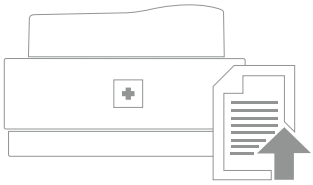


1 Analyser generates QC result.

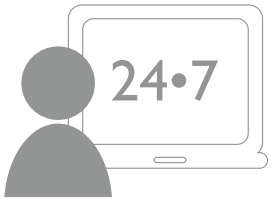
2 QC result is manually entered by the user into the Acusera 24•7 software.

Semi-automated result entry via EDI

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



1 An export file containing the QC result and associated information is generated by the analyser, LIMS or Middleware.



2 The user imports the EDI file into the Acusera 24•7 software at their desired frequency.

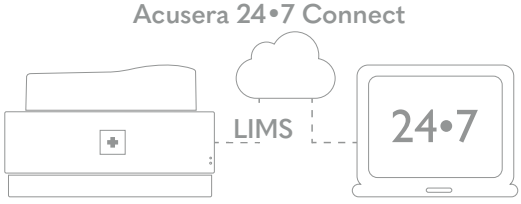
Note: First time users must create a new configuration for the EDI file and carry out EDI mapping.

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

Automatically capture data directly from your LIMS/Middleware with Acusera 24•7 Connect and import into Acusera 24•7 without the need to import files or manually input data.

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

Several options are available for automated data entry, our Acusera 24•7 Connect team will work directly with you and your IT team to implement the best solution for your lab's requirements.



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

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

EXTERNAL QUALITY ASSESSMENT

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

FEATURES AND BENEFITS

Randox International Quality Assessment Scheme RIQAS

RIQAS is the largest international EQA scheme, used by more than 65,000 laboratory participants in over 134 countries worldwide. This large number of participants ensures an extensive database of results for many analytical methods, directly increasing statistical validity as a result.

Large Database of Users

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

User-friendly Reports

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

Cost Effective

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

Frequency

- Frequent reporting allows early identification of system errors and implementation of any necessary corrective actions with minimum disruption to the lab.
- With a turnaround of less than 72 hours for most reports, corrective action can be implemented earlier, potentially reducing costly errors with patient results.

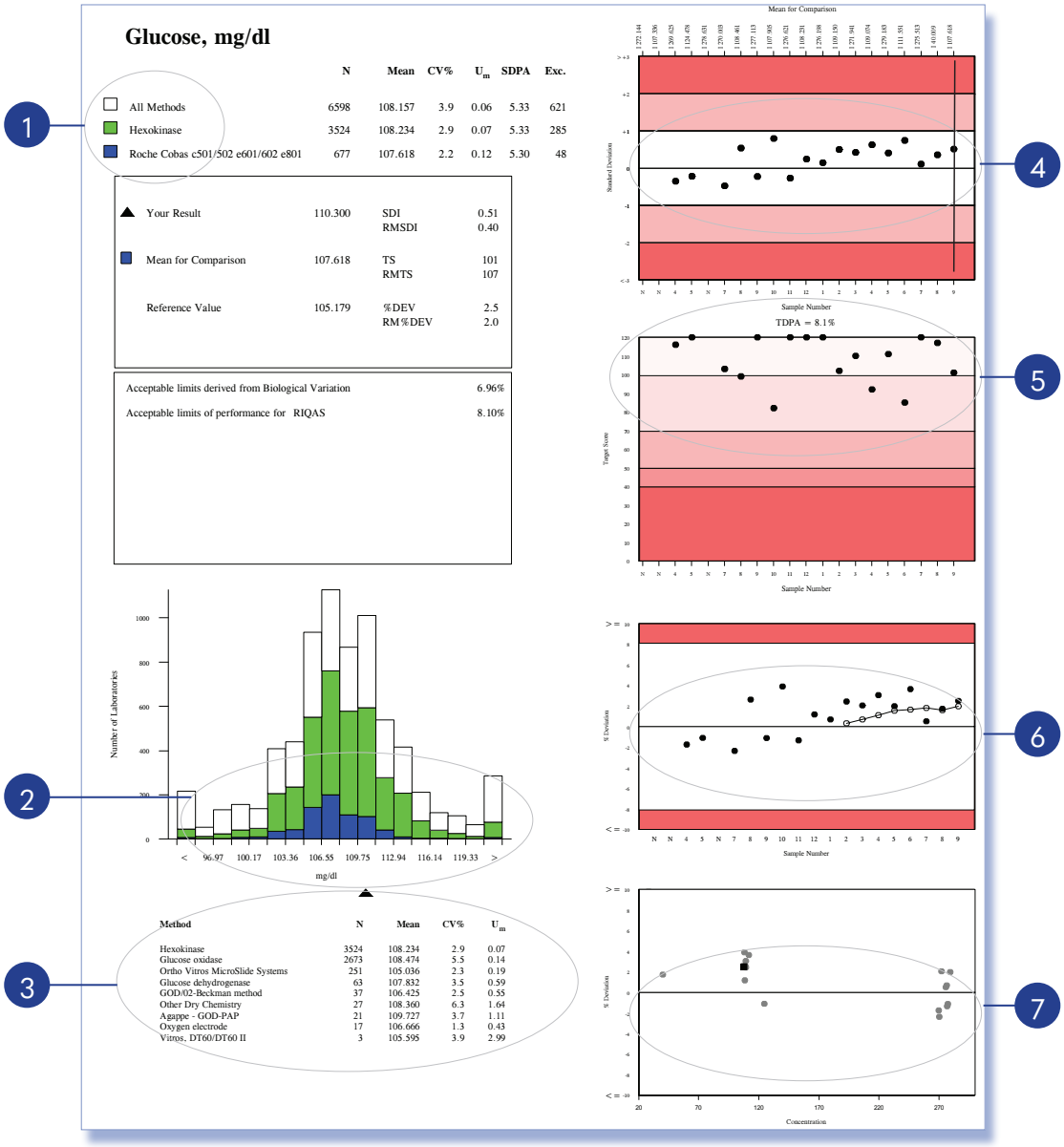
High Quality Samples

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

Highly Accredited

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

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



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

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

RIQAS PROGRAMMES

Ammonia/Ethanol Programme *With target scoring*

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

Ammonia
Ethanol

Anti-Müllerian Hormone (AMH) Programme+

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

Anti-Müllerian Hormone (AMH)

Anti-TSH Receptor Programme+ *With target scoring*

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

Anti-TSH Receptor (TRAb)

Blood Gas Programme *With target scoring*

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

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

BNP Programme+ *With target scoring*

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

BNP

Cardiac Programme *With target scoring*

RQ9127/a (1 ml)
2 Parameters only (choose from 7)
RQ9127/b (1 ml)
Full 7 Parameters
RQ9186 (1 ml)
Full 7 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription
Samples every month, 1 x 12 monthly cycle, 12 month subscription

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

Cardiac Plus Programme *With target scoring*

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

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

Cerebrospinal Fluid Programme+ *With target scoring*

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

Albumin
Chloride
Glucose
IgG
Lactate
Protein (Total)
Sodium

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

Coagulation Programme *With target scoring*

RQ9135/a (1 ml)
5 Selected parameters only + 1 pilot
(aPTT, PT, TT, Fibrinogen, Antithrombin III)

RQ9135/b (1 ml)
Full 16 Parameters + 1 pilot

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

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

CO-Oximetry Programme+

RQ9177 (1.2 ml)
First registered instrument
7 Parameters

RQ9177/A (1.2 ml)
Subsequent instruments
7 Parameters

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

Carboxyhaemoglobin (COHb / HbCO)
Deoxyhaemoglobin (HHb)
Methaemoglobin (MetHb)
Oxygen Content (O2CT)
Oxygen Saturation (sO2 / Vol O2)
Oxyhaemoglobin (O2Hb / HbO2)
Total Haemoglobin (tHb)

CYFRA 21-1 Programme+

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

CYFRA 21-1 (Cytokeratin 19)

Cytokines Programme+

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

Epidermal Growth Factor (EGF)*
Interleukin – 1 alpha (IL-1α)*
Interleukin – 1 beta (IL-1β)*
Interleukin – 2 (IL-2)*
Interleukin – 4 (IL-4)*
Interleukin – 6 (IL-6)
Interleukin – 8 (IL-8)*
Interleukin – 10 (IL-10)*
Interferon gamma (INF-Y)*
Monocyte Chemoattractant Protein -1 (MCP-1)*
Tumour Necrosis Factor alpha (TNF-α)*
Vascular Endothelial Growth Factor (VEGF)*

ESR Programme+

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

ESR (Erythrocyte Sedimentation Rate)

General Clinical Chemistry Programme *With target scoring*

RQ9112/a (5 ml)
10 Parameters

RQ9112/b (5 ml)
17 Parameters

RQ9112/c (5 ml)
Full 56 Parameters

RQ9128 (5ml)
Full 56 Parameters

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

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

ACE (Angiotensin Converting Enzyme)
Acid Phosphatase (Prostatic)
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase
ALT (ALAT)
Amylase (Pancreatic)
Amylase (Total)
AST (ASAT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Calcium, Adjusted
Calcium (Ionised)
Chloride
Cholesterol
Cholinesterase
CK, Total (CPK)
Copper
Creatinine
D-3-Hydroxybutyrate
eGFR (estimated glomerular filtration rate)
Fructosamine
γGT
GLDH
Glucose
HBDH
HDL-Cholesterol
Iron
Lactate
LD (LDH)
LDL-Cholesterol
Lipase
Lithium
Magnesium
NEFA
Non-HDL Cholesterol
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

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

RIQAS PROGRAMMES

Haematology Programme *With target scoring*

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

RQ9140 (2ml)
11 Parameters
Samples every month, 1 x 12 monthly cycle, 12 month subscription

Haematocrit (HCT)
Haemoglobin (Hb)
Mean Cell Haemoglobin (MCH)
Mean Cell Haemoglobin Concentration (MCHC)
Mean Cell Volume (MCV)
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 (2 x 10 ml)
25 Parameters
Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

RQ9185 (10ml)
25 Parameters
Samples every month, 1 x 12 monthly cycle, 12 month subscription

ACR
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

Immunoassay Programme *With target scoring*

RQ9125/a (5 ml)
4 Parameters only + 2 pilots

RQ9125/b (5 ml)
13 Parameters only + 2 pilots

RQ9125/c (5 ml)
Full 49 Parameters + 2 pilots

Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c)

RQ9130 (5 ml)
Full 49 Parameters + 2 pilots
Samples every month, 1 x 12 month cycle, 12 month subscription RQ9130)

ACTH
AFP
Aldosterone
Amikacin
Androstenedione
β-2-Microglobulin
CA125
CA15-3
CA19-9
Carbamazepine
CEA
Cortisol
C-Peptide
DHEA-Sulphate
DHEA Unconjugated
Digoxin
Ferritin
Folate
FSH
Gentamicin
GH
hCG
IgE
Insulin
LH
Oestradiol
17-OH-Progesterone
Paracetamol
Phenobarbital
Phenytoin
Progesterone
Prolactin
PSA (Free)
PSA (Total)
PTH
Salicylate
SHBG
T_3 (Free)
T_3 (Total)
T_4 (Free)
T_4 (Total)
Testosterone (Free)*
Testosterone (Total)
Theophylline
Thyroglobulin
TSH
Valproic Acid
Vancomycin
Vitamin B12
1-25-$(OH)_2$-Vitamin D*
25-OH-Vitamin D

Immunoassay Speciality 1 Programme *With target scoring*

RQ9141 (2 ml)
9 Parameters + 1 pilot
Samples every month, 1 x 12 month cycle, 12 month subscription

1-25-$(OH)_2$-Vitamin D*
25-OH-Vitamin D
C-Peptide
Anti-TG
Anti-TPO
IGF-1
Osteocalcin
Procalcitonin
PTH
Insulin

Immunoassay Speciality 2 Programme *With target scoring*

RQ9142 (1 ml)
5 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

Calcitonin
Gastrin
Procalcitonin
Plasma Renin Activity
Renin (Direct Concentration)

Immunosuppressant Programme+

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

Ciclosporin
Everolimus
Sirolimus
Tacrolimus

Lipid Programme *With target scoring*

RQ9126/a (3 ml)
3 Parameters only (choose from 7)

RQ9126/b (3 ml)
Full 7 Parameters

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

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

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

RIQAS PROGRAMMES

Maternal Screening Programme *With target scoring*

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

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

Microbiology (Bacterial Identification) Programme+

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

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

Antimicrobial Susceptibility Testing
Strain Identification

Neonatal Bilirubin Programme+

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

Direct Bilirubin
Total Bilirubin

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

RQ9193 (0.5 ml)
3 Parameters
Samples every month, 1 x 12 month cycle, 12 month subscription

IgG
IgM
Total Antibodies

Serology (EBV) Programme+

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

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

Serology (HIV-Hepatitis) Programme+

RQ9151 (1.8 ml)
10 Parameters + 6 pilots
Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-CMV (Total)
Anti-HAV IgM*
Anti-HAV (Total)*
Anti-HBc
Anti-HBc IgM*
Anti-HBe (Total)*
Anti-HBs (Total)*
Anti-HCV
Anti-HIV-1
Anti-HIV-2
Anti-HIV combined
Anti-HTLV I
Anti-HTLV II
Anti-HTLV combined
HBsAg
P24*

Serology (Syphilis) Programme+

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

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

Serology (ToRCH) Programme+

RQ9152 (1 ml)
12 Parameters + 3 pilots
Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

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

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

RIQAS PROGRAMMES

Serum Indices Programme+

RQ9194 (1 ml)
3 Indices Assessments
25 Chemistry Parameters
Samples Bi-Monthly, 2 x 9 samples, 12 month subscription

RQ9194/A (1 ml)

Indices Assessment (Quantitative and Semi-Quantitative)

Haemolysis
Icteric
Lipaemic

Parameter Assessment (Quantitative)

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

Specific Proteins Programme *With target scoring*

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

RQ9187 (1ml)
26 Parameters
Samples every month, 1 x 12 monthly cycle, 12 month subscription

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

Sweat Testing Programme+

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

Chloride
Conductivity

Therapeutic Drugs Programme *With target scoring*

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

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

Urinalysis Programme *With scoring*

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

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

Urine Toxicology Programme+

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

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

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

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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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			09	09	09	09	12	15	15	16	16	16	19	19	20	20	21	22	22	22	23	24	24	25	25	26	29	29	32	32	32	33	36	36	36	37	37	38	39	39
#	5-HIAA																																							
	17-OH-progesterone																																			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														
	α-1-Antitrypsin																				x		x		x														
	α-1-Globulin (Electrophoresis)														x						x		x																
	α-2-Globulin (Electrophoresis)														x						x		x																
	α-2-Macroglobulin																																						
	α-Fetoprotein (AFP)																				x		x		x												x	x		
	α-HBDH														x		x	x			x		x		x														
	ACE (Angiotensin Converting Enzyme)																				x		x																
	Acetaminophen																																						
	Acid Phosphatase (Non-Prostatic)														x			x																					
	Acid Phosphatase (Prostatic)																x	x					x																
	Acid Phosphatase (Total)														x		x				x		x		x														
	ACTH																																			x	x		
	Activated Partical Thromboplastin Time (APTT)																										x												
	Active Vitamin B12																															x							
	AHD																																						
	Albumin														x		x	x			x		x		x														
	Albumin (Electrophoresis)														x						x		x																
	Aldolase												x																											
	Aldosterone																																			x	x		
	Alkaline Phosphatase (ALP)														x		x	x			x		x		x														
	ALT (GPT)														x		x	x			x		x		x														
	AMH																																x						
	Amikacin																				x		x													x	x		
	Ammonia													x										x															
	AMOZ																																						
	Amylase														x		x	x			x		x		x														
	Amylase (Pancreatic)														x			x			x		x		x														
	Androstenedione																																			x	x		
	Anti-HAV																																						
	Anti-HBc																																						
	Anti-HBe																																						
	Anti-HBs																																						
	Anti-HCV																																						
	Anti-HIV 1 / 2																																						
	Anti-HTLV 1 / 2																																						
	Anti-Streptolysin (ASO)																																						
	Anti-Thyroglobulin (Anti-TG)																																					x	
	Anti-Thyroperoxidase (Anti-TPO)																																					x	
	Anti-Thrombin III (AT III)																										x												
	AOZ																																						
	Apolipoprotein A-I														x						x		x		x														
	Apolipoprotein A-II																																						
	Apolipoprotein B														x						x		x		x														
	Apolipoprotein C-II																																						
	Apolipoprotein C-III																																						
	Apolipoprotein E																																						
	AST (GOT)														x		x	x			x		x		x														
B	β-Globulin (Electrophoresis)														x						x		x																
	β-2-Microglobulin																				x		x												x	x	x		
	BASO-X																											x											

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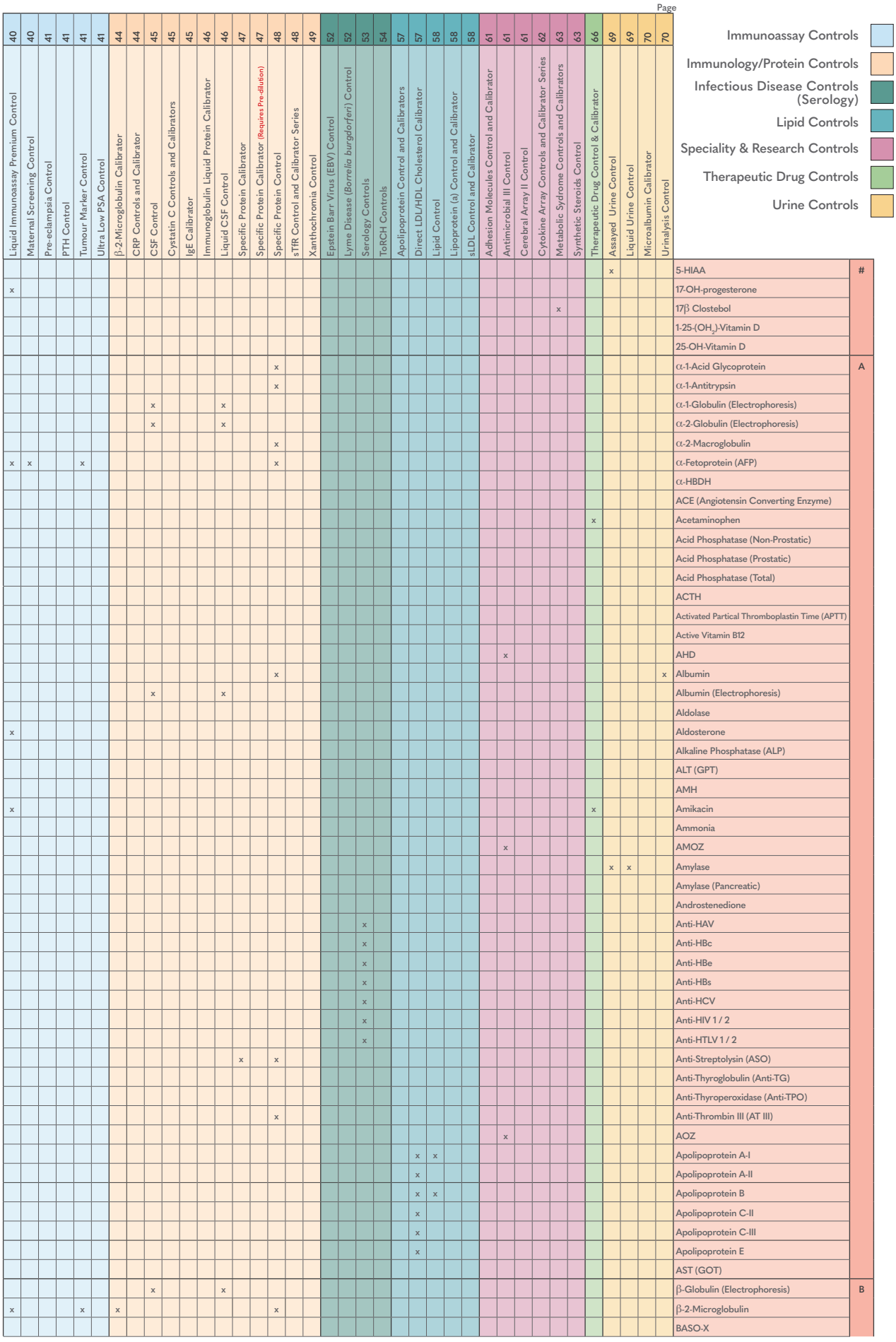

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	BASO-Y																											x												
B	Basophils (BASO)																											x												
	Basophils % (% BASO)																											x												
	Bicarbonate						x								x		x	x			x		x		x															
	Bile Acids								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

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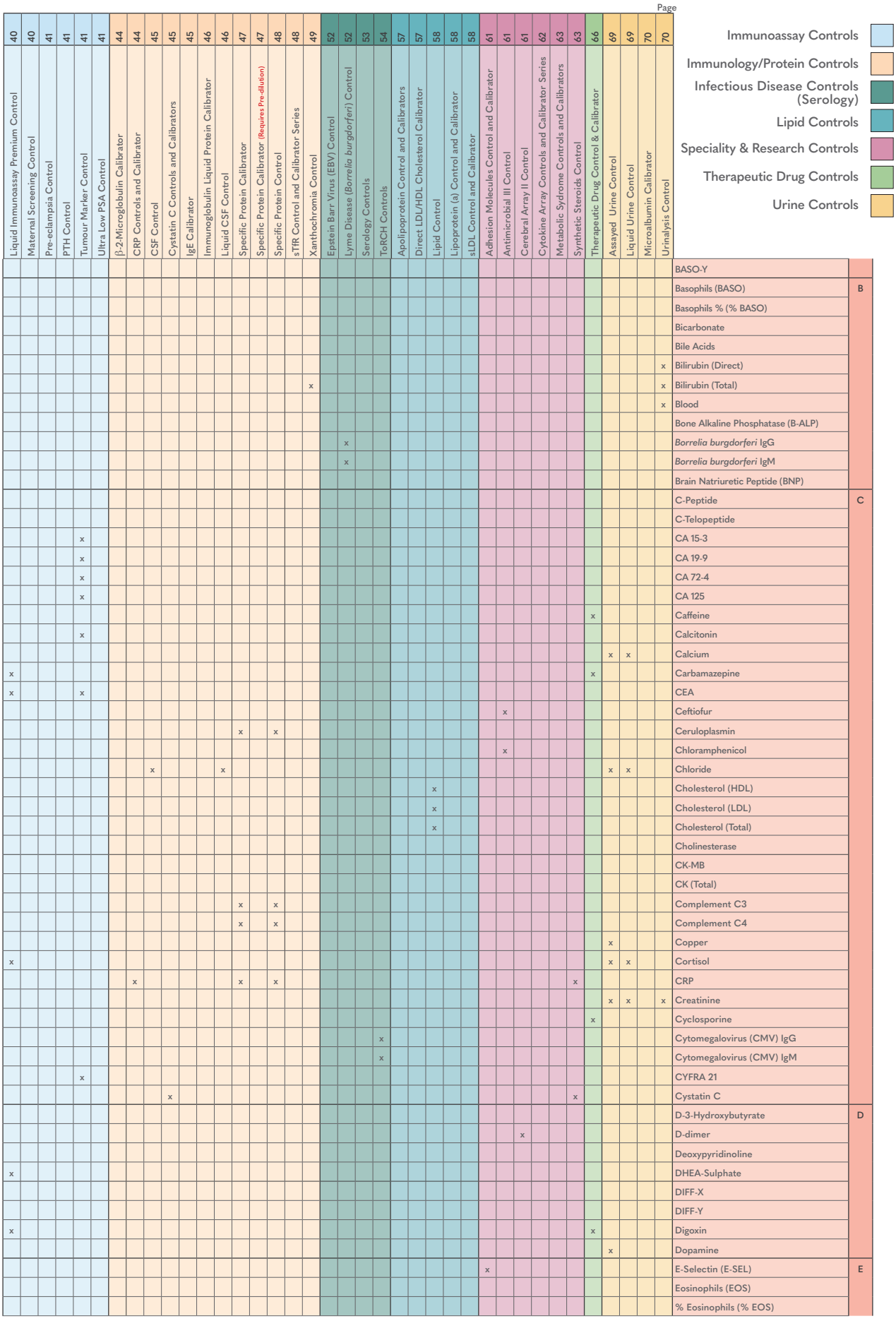

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	Epidermal Growth Factor (EGF)	09						15	15	16	16	16	19	19	20	20	21	22	22	22	23	24	24	25	25	26	29	29	32	32	32	33	36	36	36	37	37	38	39	39
E	Epinephrine																																							
	Epstein Barr Virus (EBV) EBNA IgG																																							
	Epstein Barr Virus (EBV) IgM																																							
	Epstein Barr Virus (EBV) VCA IgG																																							
	Estriol																																			x	x			
	Ethanol													x					x		x		x																	
	Ethinylestradiol																																							
	Ethosuximide																																			x	x			
F	Factor II																										x													
	Factor V																										x													
	Factor VII																										x													
	Factor VIII																										x													
	Factor IX																										x													
	Factor X																										x													
	Factor XI																										x													
	Factor XII																										x													
	Ferritin																				x		x		x											x	x			
	Fibrinogen																										x													
	Folate														x						x		x		x											x	x			
	Fructosamine																												x											
	FSC-X																											x												
	FSH																				x		x													x	x			
G	G-6-PDH																													x										
	γ-Globulin (Electrophoresis)														x						x		x																	
	γGT														x		x	x			x		x		x															
	Gastrin																																						x	
	Gentamicin														x						x		x		x											x	x			
	Gestagens (Generic)																																							
	GLDH														x		x	x			x		x		x															
	Glucose						x								x		x	x			x		x	x	x															
	Glutamate																							x																
	Glutathione Peroxidase (Ransel)		x																																				
	Glutathione Reductase			x																																			
	Glycerol																			x																			
	GM-CSF																																						
	Growth Hormone (GH)																						x													x	x			
H	Haematocrit (HCT)																											x											
	Haemoglobin (HGB)																											x											
	Haemoglobin (Total)																														x								
	Haemolysis (H)																									x													
	Haemopioetic Progenitor Cell (HPC)																											x											
	Haptoglobin																				x		x		x														
	HAV IgM																																						
	HbA1c																														x	x							
	HBc IgM																																						
	HBeAg																																						
	HBsAg																																						
	hCG																				x		x		x											x	x			
	Free β-hCG																																						
	Total β-hCG																																						
	HDL-3																																						
	Helicobacter pylori IgG																																						
	Herpes Simplex Virus 1 (HSV-1) IgG																																						
	Herpes Simplex Virus 1 (HSV-1) IgM																																						

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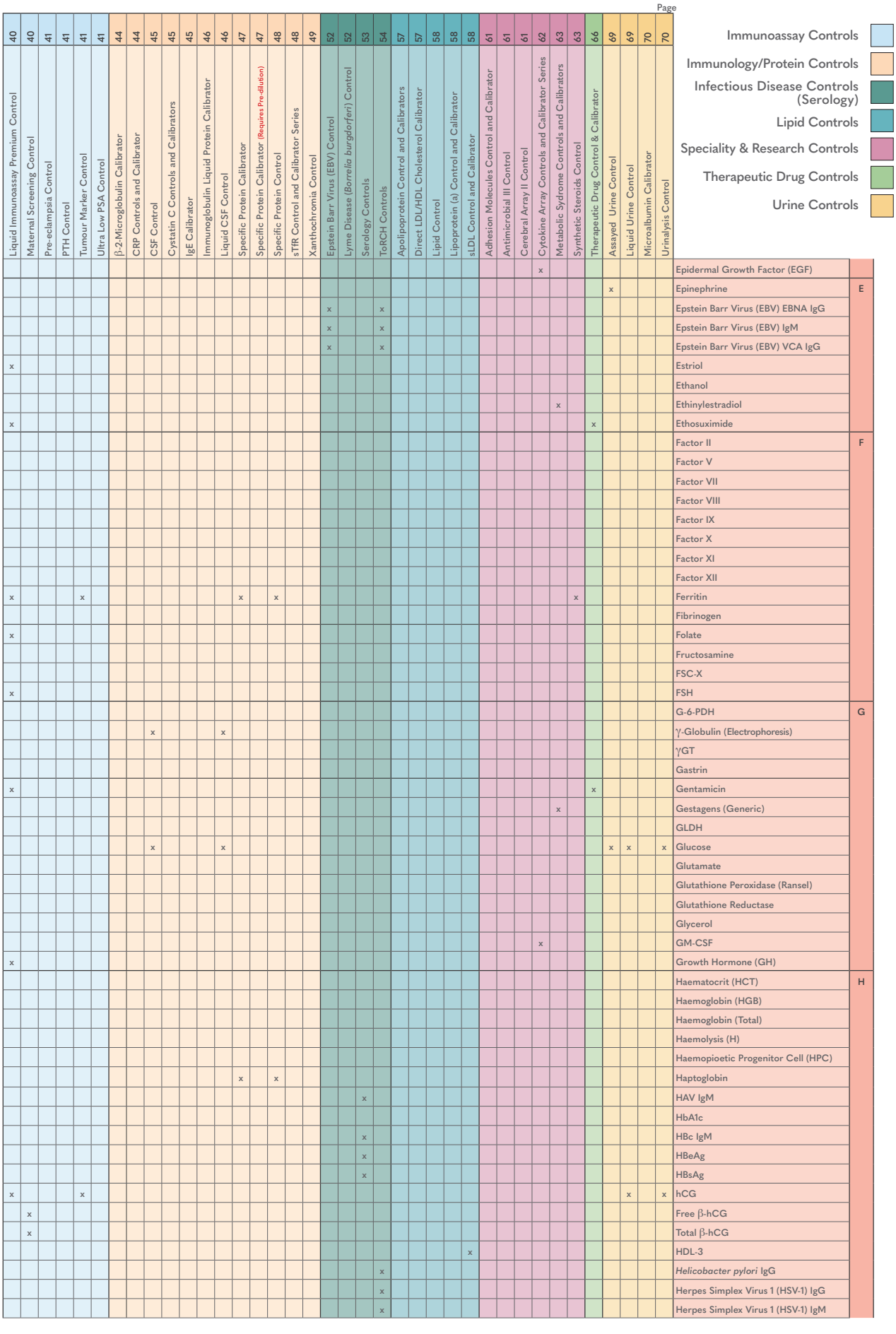

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	Herpes Simplex Virus 2 (HSV-2) IgG																																						
H	Herpes Simplex Virus 2 (HSV-2) IgM																																						
	HIV-1 P24Ag																																						
	Homocysteine										x																													
I	Icterus (I)																									x													
	IMIDC																										x												
	IMIRF																										x												
	Immature Granulocytes (IG)																										x												
	% Immature Granulocytes (% IG)																										x												
	Immature Myeloid Information (IMI)																										x												
	Immature Platelet Fraction (IPF)																										x												
	Immunoglobulin A (IgA)														x						x			x															
	High Sensitivity Immunoglobulin A (hsIgA)																																						
	Immunoglobulin E (IgE)																				x			x												x	x		
	Immunoglobulin G (IgG)														x						x			x															
	High Sensitivity Immunoglobulin G (hsIgG)																																						
	Immunoglobulin M (IgM)														x						x			x															
	High Sensitivity Immunoglobulin M (hsIgM)																																						
	Inhibin A																																						
	Insulin																																			x	x	x	
	Intercellular Adhesion Molecule-I (ICAM-I)																																						
	Interferon-γ (IFN-γ)																																						
	Interleukin-Iα (IL-Iα)																																						
	Interleukin-1β (IL-1β)																																						
	Interleukin-2 (IL-2)																																						
	Interleukin-4 (IL-4)																																						
	Interleukin-5 (IL-5)																																						
	Interleukin-6 (IL-6)																																						
	Interleukin-8 (IL-8)																																						
	Interleukin-10 (IL-10)																																						
	Interleukin-15 (IL-15)																																						
	Iron														x		x	x			x			x															
	Iron (TIBC)														x		x	x			x			x															
	Iron (UIBC)																						x																
K	Kappa Light Chain																																						
	Ketones																																						
L	L-Selectin (L-SEL)																																						
	Lactate						x								x		x	x			x		x	x															
	Lactate Dehydrogenase (LDH)														x		x	x			x		x		x														
	Lambda Light Chain																																						
	Lambda Light Chain (Free)																																						
	LAP																						x																
	Leptin																																						
	Leukocytes																																						
	Lipase														x		x	x			x			x															
	Lipemia (L)																									x													
	Lipoprotein (a)																				x		x																
	Lithium														x		x	x			x		x		x														
	Luteinising Hormone (LH)																				x		x													x	x		
	Lymphocytes (LYMPH)																										x												
	% Lymphocytes (% LYMPH)																										x												
M	Magnesium														x		x	x			x		x		x														
	Matrix Metalloproteinase-9 (MMP-9)																																						
	Measles IgG																																						

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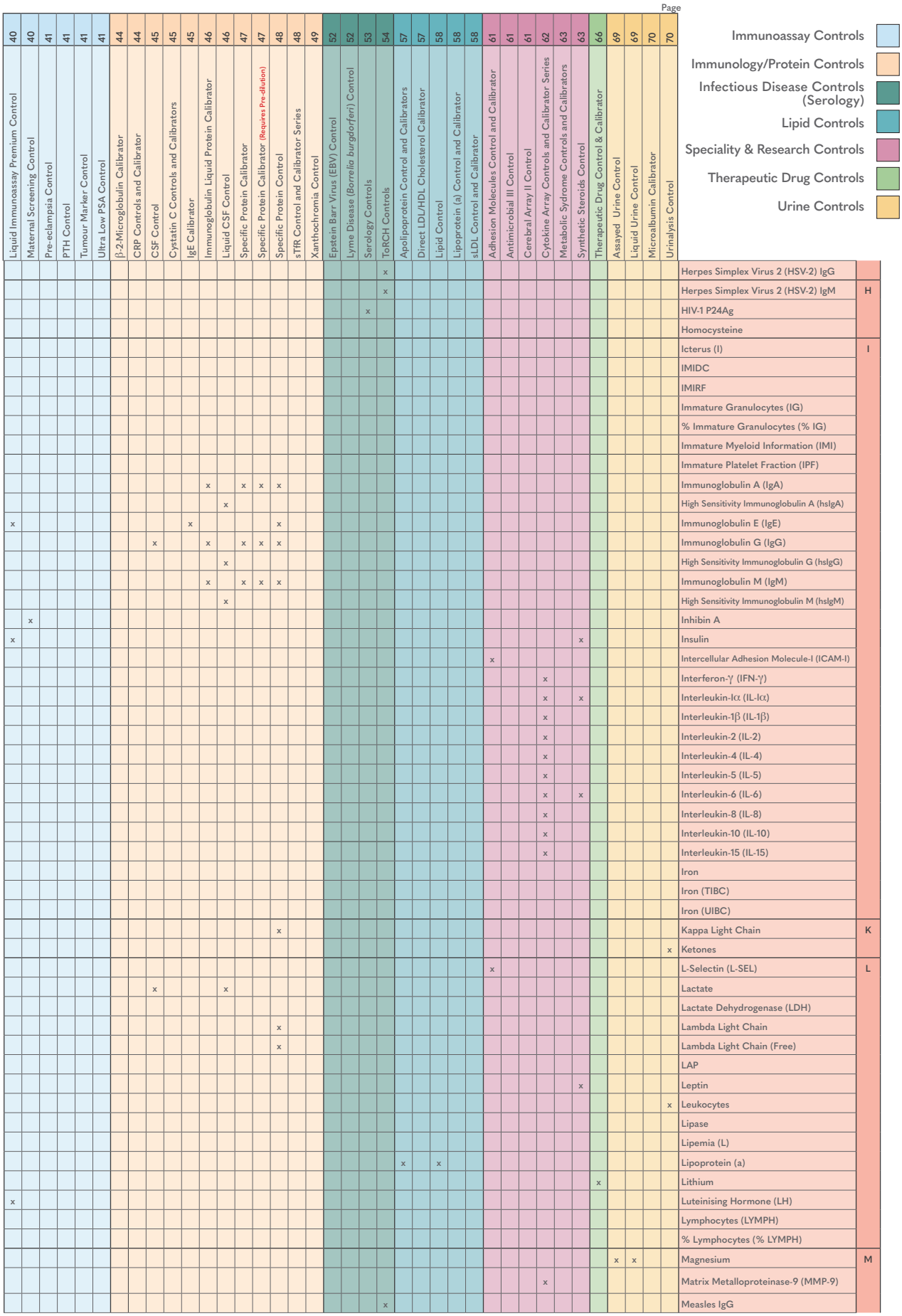

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	Mean Corpuscular Haemoglobin (MCH)																											x												
M	Mean Corpuscular Haemoglobin Concentration (MCHC)																											x												
	Mean Corpuscular Volume (MCV)																											x												
	Mean Platelet Volume (MPV)																											x												
	Metanephrine																																							
	Methandriol																																							
	Methotrexate																																							
	Methyltestosterone																																							
	Microalbumin																																							
	Macrophage Inflammatory Protein-1α (MIP-1α)																																							
	Monocytes (MONO)																											x												
	Monocytes % (% MONO)																											x												
	Monocyte Chemoattractant Protein-1 (MCP-1)																																							
	Mumps IgG																																							
	Myoglobin										x										x		x		x															
N	N-MID Osteocalcin (OC)																																x							
	N-Telopeptide																																	x						
	NEFA														x		x								x															
	Neuron-Specific Enolase (NSE)																																							
	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				
	Osmolality														x		x	x			x		x		x															
	Osteocalcin																																				x			
	Oxalate																																							
	Oxyhaemoglobin																																							
P	P-Selectin (P-SEL)																																							
	Paracetamol														x						x		x		x											x	x			
	PAPP-A																																							
	pCO_2						x																																	
	pH						x																																	
	Phenobarbitone																				x		x		x											x	x			
	Phenytoin																				x		x		x											x	x			
	Phosphate (Inorganic)														x		x	x			x		x		x															
	PIGF																																							
	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																																	

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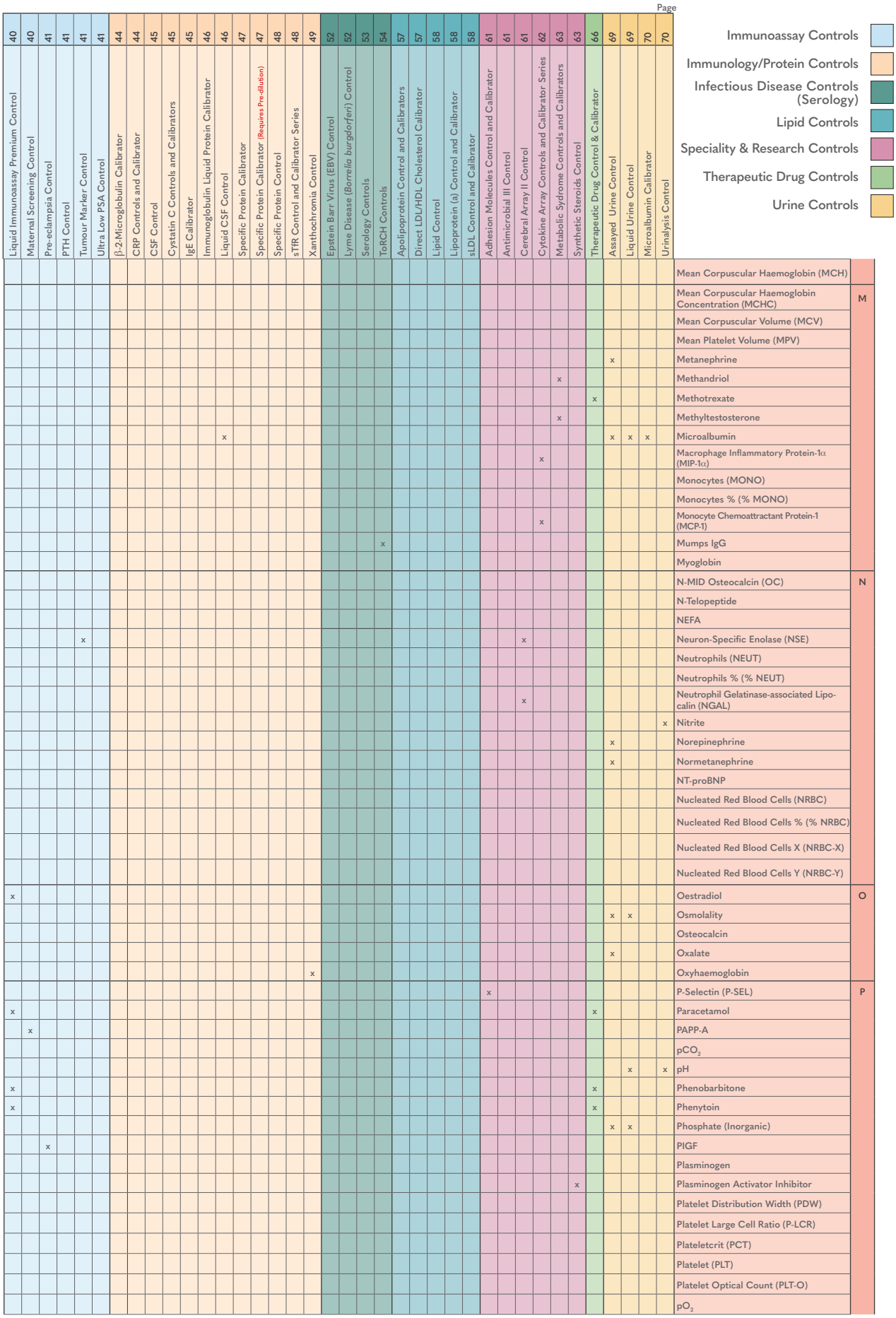

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	Potassium						x								x		x	x			x		x		x															
	Prealbumin																				x		x		x															
	Primidone																																		x	x			
P	Procalcitonin																																					x	x	
	Procollagen Type 1 N-Terminal Propeptide (P1NP)																																x						
	Progesterone																				x		x												x	x			
	Prolactin																				x		x		x										x	x			
	Protein C																									x													
	Protein S																									x													
	Protein (Total)														x		x	x			x		x		x														
	Prothrombin Time (PT)																									x													
	Pyridinium Crosslinks																																	x					
	Pyridinoline																																	x					
	PSA (Free)																																			x	x			
	PSA (Total)														x		x				x				x											x	x			
	PTH (Parathyroid Hormone)																																			x				
	PTH (Intact)																																				x		
Q	Quinolones (Generic)																																						
R	Red Blood Cell Y (RBC-Y)																											x											
	Red Blood Cell Distribution Width CV (RDW-CV)																											x											
	Red Blood Cell Distribution Width SD (RDW-SD)																											x											
	Renin																																					x	
	Resistin																																						
	Retinol Binding Protein (RBP)																																						
	Rheumatoid Factor (RF)																																						
	Rubella IgG																																						
	Rubella IgM																																						
S	Salicylate														x						x		x		x										x	x			
	Semicarbazine (SEM)																																						
	Sex Hormone Binding Globulin (SHBG)																																			x	x			
	sFlt-1																																						
	sLDL																																						
	Sodium						x								x		x	x			x		x		x														
	Soluble IL-2 Receptor α (sIL-2Rα)																																						
	Soluble IL-6 Receptor (sIL-6R)																																						
	Soluble Transferrin Receptor (sTfR)																																						
	Soluble Tumour Necrosis Factor Receptor 1 (sTNFR I)																																						
	Soluble Tumour Necrosis Factor Receptor 11 (sTNFR I1)																																						
	Specific Gravity																																						
	Streptomycin																																						
	Superoxide Dismutase (Ransod)			x																																			
T	T Uptake																				x		x												x	x			
	T3 (Free)																				x		x		x										x	x			
	T4 (Free)														x		x				x		x		x										x	x			
	T3 (Total)														x		x				x		x		x										x	x			
	T4 (Total)														x		x				x		x		x										x	x			
	Testosterone																				x		x												x	x			
	Testosterone (Free)																																			x	x			
	Tetracyclines (Generic)																																						

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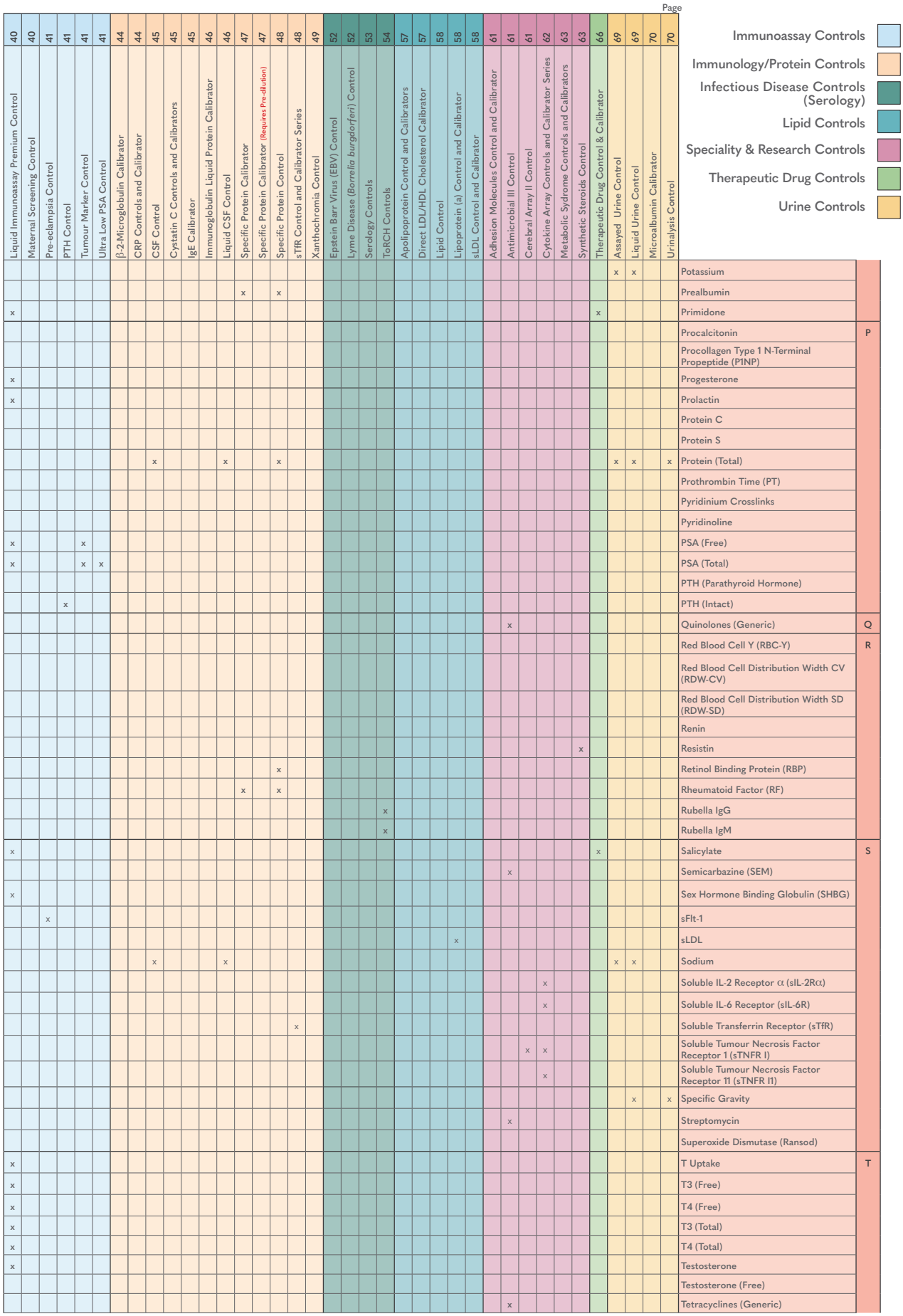

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	Theophylline														x						x		x		x											x	x				
	Thiamphenicol																																							
	Thrombin Time (TT)																										x													
	Thyroglobulin																																			x	x			
	Tobramycin														x										x											x	x			
T	Total Antioxidant Status (TAS)					x																																		
	Toxoplasma *gondii* IgG																																							
	Toxoplasma *gondii* IgM																																							
	Transferrin														x						x		x		x															
	Treponema pallidum (Syphilis) IgG																																							
	Triglycerides														x		x	x			x		x		x															
	Trimethoprim																																							
	Troponin I								x		x														x															
	Troponin T										x	x									x		x																	
	TSH																				x		x		x											x	x			
	Tumour Necrosis Factor α (TNFα)																																							
	Tylosin																																							
U	Unconjugated Oestriol																																							
	Urea														x		x	x			x		x		x															
	Uric Acid (Urate)														x		x	x			x		x		x															
	Urobilinogen																																							
V	Valproic Acid																				x		x		x											x	x			
	Vancomycin																				x		x		x											x	x			
	Vanillylmandelic Acid (VMA)																																							
	Varicella Zoster Virus (VZV) IgG																																							
	Vascular Cell Adhesion Molecule-1 (VCAM-1)																																							
	Vascular Endothelial Growth Factor (VEGF)																																							
	Vitamin B_{12}														x		x				x		x		x												x	x		
W	White Blood Cells (WBC)																											x											
	White Blood Cells Differential (WBC-D)																											x											
Z	Zinc														x		x	x			x		x		x															

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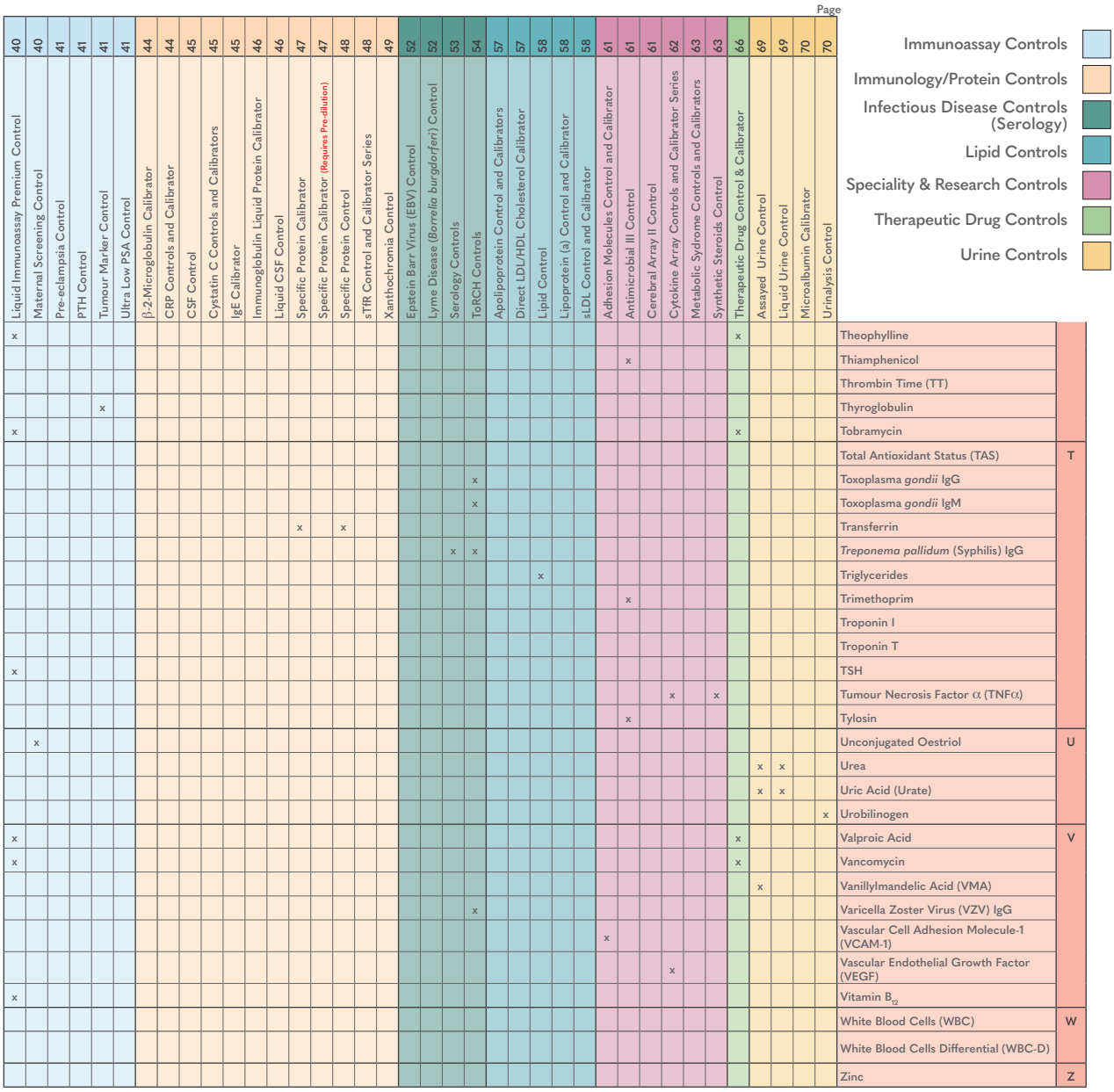

NOTES

NOTES

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