## **RANDOX**

## THIRD PARTY CONTROLS





## **ACUSERA**

## TRUE THIRD PARTY CONTROLS OFFERING COMPLETE TEST MENU CONSOLIDATION



01	BENEFITS
03	ISO REQUIREMENTS
04	CONSOLIDATION
05	COMMITMENT TO QUALITY
06	ANTIOXIDANTS
09	BLOOD GAS
12	CARDIAC
16	CLINICAL CHEMISTRY
27	COAGULATION AND HAEMATOLOGY
30	DIABETES AND WHOLE BLOOD
34	IMMUNOASSAY
41	IMMUNOLOGY/PROTEINS
48	INFECTIOUS DISEASE (SEROLOGY)
52	LIPIDS
57	SPECIALITY AND RESEARCH
65	THERAPEUTIC DRUGS
68	TOXICOLOGY
73	URINE CHEMISTRY
77	CUSTOMISED QUALITY CONTROL SERA
79	ANALYTE INDEX
96	RANDOX QC PORTFOLIO
97	CONTACT US

## **BENEFITS**

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

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



## Commutability

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



## Accurate Target Values

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



## **True Third Party Controls**

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



## **Shelf Life**

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



## Consistency

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



## **Traceability**

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



## Consolidation

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



## **Clinically Relevant Levels**

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



## **Reduced Waste**

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



## Flexible Options

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



## **Custom Controls**

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

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

## ISO REQUIREMENTS

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

## **Third Party Controls**

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

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

## Commutability

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

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

## **Clinically Relevant Levels**

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

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

## **Data Management**

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

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

## **EQA**

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

The Randox International Quality Assessment Scheme (RIQAS), is used by more than 55,000 laboratory participants in 134 countries and accredited to ISO 17043. As a result, we have RIQAS users on every continent who are registered for one or more of our 39 flexible EQA programmes, utilising the available data to ensure the quality and reliability of their results.

## CONSOLIDATION

## Consolidate and Save with Randox Acusera.

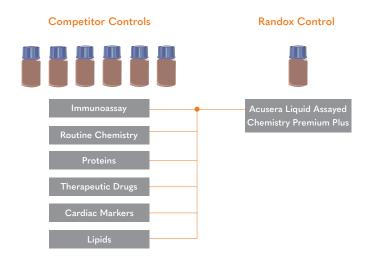
Randox is a leading provider of multi-analyte, true third party controls covering more than 400 parameters. The unique combination of analytes facilitates effective consolidation, helping your laboratory to reduce costs without compromising on performance or quality. Unlike some competitor products,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

## How can consolidating with Randox Acusera benefit you?

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

## Liquid Assayed Chemistry Premium Plus Control

Uniquely combining up to 99 analytes including; routine chemistry, immunoassays, lipids, therapeutic drugs, proteins and cardiac markers in a single vial, you can experience effective consolidation and significant cost savings. The presence of CRP and other proteins at elevated levels will not only help to ensure accurate instrument performance at key decision levels but further reduce the number of individual controls required. - turn to page 21 for more information



## Immunoassay Tumour Markers Anaemia Monitoring Therapeutic Drugs

## Immunoassay Premium Plus Control

Impressively covering 55 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<sub>12</sub> 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.



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

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

The International Organisation for Standardisation (ISO) is the largest developer and publisher of international standards in the world. In 2016, Randox was accredited with ISO13485:2016 approval.



ISO13485:2016

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

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

FDA Cleared

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



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

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

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

Canadian
Medical Device
Regulations
from Health
Canada

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

## ANTIOXIDANT CONTROLS

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

## **ANTIOXIDANTS**

Antioxidant Product Range				
Product Description	Size	Cat. No.	Page No.	
Glutathione Peroxidase (Ransel) Control	10 x 1 ml	SC692	08	
Glutathione Peroxidase (Ransel) Calibrator	10 x 1 ml	SC10154	08	
Glutathione Reductase Control	10 x 5 ml	GR2608	08	
Glutathione Reductase Calibrator	10 x 5 ml	GR2609	08	
Superoxide Dismutase (Ransod) Control	10 x 1 ml	SD126	08	
Total Antioxidant Status (TAS) Control	10 x 5 ml	NX2331	08	
Total Antioxidant Status (TAS) Calibrator	10 x 1 ml	NX2332	08	







frozen











## Glutathione Peroxidase (Ransel) Control and Calibrator 👢 🍥



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

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

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

## Glutathione Reductase Control and Calibrator 👢 🍥





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

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

Description	Size	Cat. No.
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.

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

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

## Total Antioxidant Status (TAS) Control and Calibrator 👢 🍥





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

NX2332

Lyophilised for enhanced stability

Total Antioxidant Status Calibrator

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

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

10 x 1 ml

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

## BLOOD GAS CONTROLS

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

## **BLOOD GAS**

Blood Gas Product Range			
Product Description	Size	Cat. No.	Page No.
Blood Gas Control Level 1	30 x 1.8 ml	BG5001	11
Blood Gas Control Level 2	30 x 1.8 ml	BG5002	11
Blood Gas Control Level 3	30 x 1.8 ml	BG5003	11







Liquid frozen



Lyophilised for enhanced stability



Assayed target values provided



00% human

## **BLOOD GAS**

## Blood Gas Control 6 ©



	Ana	alytes	
Bicarbonate	Glucose	pH	Sodium
Calcium	Lactate	pO <sub>2</sub>	
Chloride	pCO <sub>2</sub>	Potassium	

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

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

Description	Size	Cat. No.
Blood Gas Control Level 1	30 x 1.8 ml	BG5001
Blood Gas Control Level 2	30 x 1.8 ml	BG5002
Blood Gas Control Level 3	30 x 18 ml	BG5003

## CARDIAC CONTROLS

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

## **CARDIAC**

Cardiac Pi	roduct Range		
Product Description	Size	Cat. No.	Page No.
Cardiac Control - Ultra Low (Abbott & Roche)	3 x 3 ml	CQ10453	14
Cardiac Control Level 1 (Abbott & Roche)	3 x 3 ml	CQ10454	14
Cardiac Control Level 2 (Abbott & Roche)	3 x 3 ml	CQ10455	14
Cardiac Control Level 3 (Abbott & Roche)	3 x 3 ml	CQ10456	14
Cardiac Control – Ultra Low (Siemens)	3 x 3 ml	CQ10428	14
Cardiac Control Level 1 (Siemens)	3 x 3 ml	CQ10429	14
Cardiac Control Level 2 (Siemens)	3 x 3 ml	CQ10430	14
Cardiac Control Level 3 (Siemens)	3 x 3 ml	CQ10431	14
Tri-Level Cardiac Control	3 x 1 ml	CQ3100	14
Tri-Level Cardiac Control	3 x 2 ml	CQ3259	14
Troponin T Control (ultra low)	6x 3 ml	CQ10450	15
CK-MB Control	10 x 2 ml	CK1212	15
CK-MB Calibrator	10 x 1 ml	CK2393	15







Liquid frozen



Lyophilised for enhanced stability



Assayed target values provided



100% human matrix

## Cardiac Control 🐉 🔘



## Analytes

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

Delivering an assayed 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.

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

Description	Size	Cat. No.
Cardiac Control Ultra Low (Abbott & Roche)	3 x 3 ml	CQ10453
Cardiac Control Level 1 (Abbott & Roche)	3 x 3 ml	CQ10454
Cardiac Control Level 2 (Abbott & Roche)	3 x 3 ml	CQ10455
Cardiac Control Level 3 (Abbott & Roche)	3 x 3 ml	CQ10456
Cardiac Control Ultra Low (Siemens)	3 x 3 ml	CQ10428
Cardiac Control Level 1 (Siemens)	3 x 3 ml	CQ10429
Cardiac Control Level 2 (Siemens)	3 x 3 ml	CQ10430
Cardiac Control Level 3 (Siemens)	3 x 3 ml	CQ10431

## Tri-Level Cardiac Control &





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

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

- · Lyophilised for enhanced stability
- 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

<sup>\*</sup> Only available in level 2 and level 3

## **CARDIAC**

## Troponin T Control 🐉 🎯 🛉





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

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

Description Troponin T Control 6 x 3 ml CQ10450

## CK-MB Control and Calibrator & 🌡 🎯 🛊





	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

## CLINICAL CHEMISTRY CONTROLS

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

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







Liquid frozen



Lyophilised for enhanced stability



Assayed target values provided



100% human matrix

## Precision Chemistry Premium Plus Control



## Analytes Cardiac Prolactin Ferritin Chloride CK (Total) PSA (Total) Haptoglobin Cholinesterase Immunoglobulin A (IgA) Myoglobin T3 (Free) Creatinine Troponin I D-3-Hydroxybutyrate T3 (Total) Immunoglobulin E (IgE) γGT GLDH T4(Free) Immunoglobulin G (IgG) Drugs Immunoglobulin M (IgM) T4 (Total) Glucose Carbamazepine TSH Prealbumin Iron Digoxin Vitamin B<sub>12</sub> Protein (Total) Iron (TIBC) Gentamicin Transferrin Iron (UIBC) Lithium Lipids Paracetamol Lactate Apolipoprotein A-I **Routine Chemistry** Phenobarbitone Lactate Dehydrogenase (LDH) Apolipoprotein B $\alpha$ -HBDH Phenytoin LAP Cholesterol (HDL) Acid Phosphatase (Prostatic) Salicylate Lipase Cholesterol (Total) Acid Phosphatase (Total) Theophylline Magnesium **NEFA** Albumin Tobramycin Osmolality Alkaline Phosphatase (ALP) Triglycerides Valproic Acid Phosphate (Inorganic) ALT (GPT) Vancomycin Potassium Amylase **Proteins** Sodium Amylase (Pancreatic) AST (GOT) $\alpha$ -1-Acid Glycoprotein Urea **Immunoassay** Uric Acid (Urate) $\alpha$ -1-Antitrypsin α-Fetoprotein (AFP) Bicarbonate Ceruloplasmin CEA Bile Acids Bilirubin (Direct) Bilirubin (Total) Cortisol Complement C3 **Trace Metals** Complement C4 Folate Copper hCG CRP Calcium Zinc

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

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

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

## Liquid Chemistry Premium Plus Control



	Ana	llytes	
Cardiac	Immunoassay	Proteins	Bile Acids
CK (Total)	lpha-Fetoprotein (AFP)	α-1-Acid Glycoprotein	Bilirubin (Direct)
Myoglobin	CEA	lpha-1-Antitrypsin	Bilirubin (Total)
Troponin T	Cortisol	β-2-Microglobulin	Calcium
	DHEA Sulphate	Ceruloplasmin	Chloride
Drugs	Folate	Complement C3	Cholinesterase
Amikacin	FSH	Complement C4	Creatinine
Caffeine	Growth Hormone (GH)	CRP	D-3-Hydroxybutyrate
Carbamazepine	hCG	Ferritin	γGT
Digoxin	Luteinising Hormone (LH)	Haptoglobin	GLDH
Ethanol	Progesterone	Immunoglobulin A (IgA)	Glucose
Gentamicin	Prolactin	Immunoglobulin E (IgE)	Iron
Lithium	Testosterone	Immunoglobulin G (IgG)	Iron (TIBC)
Paracetamol	T Uptake	Immunoglobulin M (IgM)	Iron (UIBC)
Phenobarbitone	T3 (Free)	Prealbumin	Lactate
Phenytoin	T3 (Total)	Protein (Total)	Lactate Dehydrogenase (LDH)
Salicylate	T4(Free)	Transferrin	LAP
Theophylline	T4 (Total)		Lipase
Valproic Acid	TSH	Routine Chemistry	Magnesium
Vancomycin	Vitamin B₁₂	α-HBDH	Osmolality
		ACE (Angiotensin Converting Enzyme)*	Phosphate (Inorganic)
Electrophoresis	Lipids	Acid Phosphatase (Prostatic)	Potassium
$\alpha$ -1-Globulin	Apolipoprotein A-1	Acid Phosphatase (Total)	Sodium

Albumin

Alkaline Phosphatase (ALP)

ALT (GPT)

Amylase

Amylase (Pancreatic)

AST (GOT)

Bicarbonate

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

- Liquid frozen
- Human based serum
- High levels of CRP and other proteins eliminate the need for separate controls
- Stable to expiry date at -20°C to -70°C

 $\alpha$ -2-Globulin

Albumin

β-Globulin

γ-Globulin

- 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

Apolipoprotein B

Cholesterol (HDL)

Cholesterol (LDL)

Cholesterol (Total)

Lipoprotein (a)

Triglycerides

e regarding values or stability.

Urea

Uric Acid (Urate)

Trace Metals

Copper

Zinc

## Assayed Chemistry Premium Plus Control 👢 🍥



	Ana	lytes	
Cardiac	Immunoassay	Immunoglobulin M (IgM)	D-3-Hydroxybutyrate
CK (Total)	Cortisol	Protein (Total)	γGT
Or (Total)	Folate	Transferrin	GLDH
Drugs	PSA (Total)	Transferrin	Glucose
Digoxin	T3 (Total)	Routine Chemistry	Iron
Gentamicin	T4(Free)	α-HBDH	Iron (TIBC)
Lithium	T4(Total)	Acid Phosphatase (Total)	Lactate
Paracetamol	TSH	Albumin	Lactate Dehydrogenase (LDH)
Salicylate	Vitamin B <sub>12</sub>	Alkaline Phosphatase (ALP)	Lipase (Colorimetric)
Theophylline	* Tearritin D <sub>12</sub>	ALT (GPT)	Lipase (Turbidimetric)
Tobramycin	Lipids	Amylase	Magnesium
1001411170111	Apolipoprotein A-1	Amylase (Pancreatic)	Osmolality
Electrophoresis	Apolipoprotein B	AST (GOT)	Phosphate (Inorganic)
α-1-Globulin	Cholesterol (HDL)	Bicarbonate	Potassium
α-2-Globulin	Cholesterol (Total)	Bile Acids	Sodium
Albumin	NEFA	Bilirubin (Direct)	Urea
β-Globulin	Triglycerides	Bilirubin (Total)	Uric Acid (Urate)
γ-Globulin		Calcium	0.107.0.0 (0.000)
,	Proteins	Chloride	Trace Metals
	Immunoglobulin A (IgA)	Cholinesterase	Copper
	Immunoglobulin G (IgG)	Creatinine	Zinc

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

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

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

## Liquid Assayed Chemistry Premium Plus Control





Analytes			
Cardiac	Immunoassay	Proteins	Bile Acids
CK (Total)	α-Fetoprotein (AFP)	α-1- Acid Glycoprotein	Bilirubin (Direct)
Myoglobin	CEA	α-1-Antitrypsin	Bilirubin (Total)
Troponin T	Cortisol	β-2-Microglobulin	Calcium
· ·	DHEA Sulphate	Ceruloplasmin	Chloride
Drugs	Folate	Complement C3	Cholinesterase
Amikacin	FSH	Complement C4	Creatinine
Caffeine	hCG	CRP	D-3-Hydroxybutyrate
Carbamazepine	Luteinising Hormone (LH)	Ferritin	γGT
Digoxin	Progesterone	Haptoglobin	GLDH
Ethanol	Prolactin	Immunoglobulin A (IgA)	Glucose
Gentamicin	PSA (Total)	Immunoglobulin E (IgE)	Iron
Lithium	T Uptake	Immunoglobulin G (IgG)	Iron (TIBC)
Paracetamol	T3 (Free)	Immunoglobulin M (IgM)	Lactate
Phenobarbitone	T3 (Total)	Prealbumin	Lactate Dehydrogenase (LDH)
Phenytoin	T4(Free)	Protein (Total)	Lipase
Salicylate	T4 (Total)	Transferrin	Magnesium
Theophylline	Testosterone		Osmolality
Valproic Acid	TSH	Routine Chemistry	Phosphate (Inorganic)
Vancomycin	Vitamin B₁₂	α-HBDH	Potassium
		ACE (Angiotensin Converting Enzyme)*	Sodium
Electrophoresis	Lipids	Acid Phosphatase (Total)	Urea
α-1-Globulin	Apolipoprotein A-1	Albumin	Uric Acid (Urate)
α-2-Globulin	Apolipoprotein B	Alkaline Phosphatase (ALP)	
Albumin	Cholesterol (HDL)	ALT (GPT)	Trace Metals
β-Globulin	Cholesterol (LDL)	Amylase	Copper
γ-Globulin	Cholesterol (Total)	Amylase (Pancreatic)	Zinc
	Lipoprotein (a)	AST (GOT)	
	Triglycerides	Bicarbonate	

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

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

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

## Bovine Chemistry Assayed Control &



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

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

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

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

## Clinical Chemistry Calibration Serum



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

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

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

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

## Ammonia Ethanol Control



An	nalytes
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

## Aldolase Control and Calibrator



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

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

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

## Liquid Bilirubin Control





	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 -70°C
- Open vial stability of 7 days at 2°C to 8°C
- · Elevated levels of Bilirubin ensure clinical decision levels are met

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

Bilirubin Elevated Serum 👢 🍥





## **Analytes**

Bilirubin (Direct) Bilirubin (Total)

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

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

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

## Glycerol Control &





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

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

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



## Multi Control and Calibrator

	Ana	alytes	
Ammonia	Glucose	Glutamate	Lactate

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

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

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

## Glutamine Control and Calibrator 👢 🎯 🖠





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

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

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

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

## 



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

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

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

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

# COAGULATION AND HAEMATOLOGY CONTROLS

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

## **COAGULATION AND HAEMATOLOGY**

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









enhanced stability





28

## COAGULATION AND HAEMATOLOGY

## Coagulation Control 👢 🎯 🛊





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

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

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

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

## 







## **Analytes**

**BASO-X** BASO -Y Basophils (BASO)\* % Basophils (% BASO) DIFF-Y Eosinophils (EOS) % Eosinophils (%EOS) FSC-X Haematocrit (HCT) Haemoglobin (HGB) Haematopoietic Progenitor Cell (HPC) **IMIDC IMIRF** Immature Granulocytes (IG) % Immature Granulocytes (%IG) Immature Myeloid Information (IMI) Immature Platelet Fraction (IPF) Lymphocytes (LYMPH) % Lymphocytes (% LYMPH) Mean Corpuscular Haemoglobin (MCH) Mean 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-touse format, ultimately increasing productivity and reducing the need for multiple controls. Providing a true third party solution for 5-part WBC differential Sysmex Haematology and Mindray analysers, ensuring unbiased performance assessment.

HM5162

- 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 Cat. No.

## DIABETES AND WHOLE BLOOD CONTROLS

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

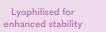
## **DIABETES AND WHOLE BLOOD**

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











Assayed target values provided



100% human matrix

## DIABETES AND WHOLE BLOOD

## HbA1c Control and Calibrator Series L 🌑 🖠





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

## Control

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

## Calibrator

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

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

## Liquid HbA1c Control 6



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

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

Description	Size	Cat. No.
Liquid HbA1c Control Level 1	6 x 1 ml	HA10224
Liquid HbA1c Control Level 2	6 x 1 ml	HA10225
Liquid HbA1c Control Set	$2 \times 2 \times 0.5 \text{ ml}$	HA10155

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





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

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

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

## **DIABETES AND WHOLE BLOOD**

## Fructosamine Control and Calibrator 👢 🎯





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

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

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

### IMMUNOASSAY CONTROLS

As one of the most comprehensive control ranges on the market, the Acusera Immunoassay offering from Randox will streamline QC in any laboratory. With multiple immunoassay controls to choose from, combining up to 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 15189:2012 requirements while also eliminating shifts in QC target values when reagent batch is changed.

### **IMMUNOASSAY**

AMH Control Level 1  3 x 2 ml  AMH 10509  36  AMH Control Level 2  3 x 2 ml  AMH 10515  36  AMH Control Level 3  3 x 2 ml  AMH 10515  36  AMH Control Level 4  3 x 2 ml  AMH 10516  36  Liquid Immunoassay Premium Tri-Level  4 x 3 x 5 ml  LiA3108  36  PTH Control Level 1  3 x 3 ml  PTH 10110  37  PTH Control Level 2  3 x 3 ml  PTH 10111  37  PTH Control Level 3  Immunoassay Premium Level 1  12 x 5 ml  1A2638  37  Immunoassay Premium Level 2  12 x 5 ml  1A2640  37  Immunoassay Premium Tri-Level  4 x 3 x 5 ml  1A2633  37  Immunoassay Premium Plus Level 3  Immunoassay Premium Plus Level 1  12 x 5 ml  1A2633  37  Immunoassay Premium Plus Level 1  12 x 5 ml  1A3100  38  Immunoassay Premium Plus Level 1  12 x 5 ml  1A3100  38  Immunoassay Premium Plus Level 3  Immunoassay Speciality I Level 1  5 x 2 ml  IA3111  38  Immunoassay Speciality I Level 1  5 x 2 ml  IA33114  39  Immunoassay Speciality I Level 2  5 x 1 ml  IA33115  39  Immunoassay Speciality I Level 3  5 x 1 ml  IA33117  39  Immunoassay Speciality I Level 3  5 x 1 ml  IA33119  39  Immunoassay Speciality II Level 3  5 x 1 ml  IA33119  39  Immunoassay Speciality II Level 3  5 x 1 ml  IA33119  39  Immunoassay Speciality II Level 3  5 x 1 ml  IA33119  39  Immunoassay Speciality II Level 3  5 x 1 ml  IA33119  39  Immunoassay Speciality II Level 3  3 x 2 ml  TU5002  40  Tumour Marker Control Level 3  3 x 1 ml  Mass5024  40  Maternal Screening Control Level 4  Maternal Screening Control Level 2  3 x 1 ml  Mass5025  40	Immunoassay	Product Range		
AMH Control Level 2  AMH Control Level 3  AMH Control Level 3  AMH Control Level 4  AMH Control Level 4  AMH Control Level 4  AMH Control Level 4  Ax 3 x 5 ml  Liquid Immunoassay Premium Tri-Level  Ax 3 x 5 ml  LiA3108  AMH Control Level 1  Ax 3 x 5 ml  LiA3108  AMH Control Level 1  Ax 3 x 5 ml  AMH Control Level 2  Ax 3 ml  AMH Control Level 2  Ax 3 ml  AMH Control Level 3  Ax 3 ml  AX 4 ml  AX 4 2638  AX 4 ml  AX 4 2639  AX 5 ml  AX 4 2639  AX 5 ml  AX 5 ml  AX 6 40  AX 3 x 5 ml  AX 6 40  AX 3 x 5 ml  AX 6 40  AX 6 40  AX 6 ml  AX 6	Product Description	Size	Cat. No.	Page No.
AMH Control Level 3  AMH Control Level 4  AMH Control Level 4  AMH Control Level 4  AMH Says 5 ml  LIA3108  AMH Control Level 1  AWH10516  AMH Control Level 4  A 3 x 5 ml  LIA3108  AMH Control Level 1  AWH10516  AMH Control Level 2  A x 3 x 5 ml  AWH10516  AMH Control Level 3  A x 3 ml  AWH10516  AMH Control Level 3  A x 3 ml  AWH10516  AMH Control Level 3  A x 3 ml  AWH10516  AMH Control Level 3  A x 3 ml  AWH10516  A x 3 x 3 ml  AWH10516  AMH Control Level 3  A x 3 ml  AWH10516  AX 3 ml  AWH10516  AX 3 ml  AWH10516  AX 3 ml  AWH10516  AX 3 x 3 ml  AWH10511  AX 3 x 3 ml  AWH10516  AX 3 x 3 ml  AWH10511  AX 3 x 3 ml  A	AMH Control Level 1	3 x 2 ml	AMH10509	36
AMH Control Level 4  3 x 2 ml  AMH 10516  36  Liquid Immunoassay Premium Tri-Level  4 x 3 x 5 ml  LIA3108  36  PTH Control Level 1  3 x 3 ml  PTH10110  37  PTH Control Level 2  3 x 3 ml  PTH10111  37  PTH Control Level 3  3 x 3 ml  PTH10111  37  PTH Control Level 3  12 x 5 ml  IA2638  37  Immunoassay Premium Level 1  12 x 5 ml  IA2639  37  Immunoassay Premium Level 2  12 x 5 ml  IA2640  37  Immunoassay Premium Tri-Level  4 x 3 x 5 ml  IA2640  37  Immunoassay Premium Plus Level 3  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  Immunoassay Premium Plus Tri-Level  4 x 3 x 5 ml  IA3111  38  Immunoassay Speciality I Level 1  5 x 2 ml  IA3112  38  Immunoassay Speciality I Level 2  5 x 2 ml  IA53113  39  Immunoassay Speciality I Level 3  Immunoassay Speciality II Level 3  Immunoassay Speciali	AMH Control Level 2	3 x 2 ml	AMH10514	36
Liquid Immunoassay Premium Tri-Level       4 x 3 x 5 ml       LIA3108       36         PTH Control Level 1       3 x 3 ml       PTH10110       37         PTH Control Level 2       3 x 3 ml       PTH10111       37         PTH Control Level 3       3 x 3 ml       PTH10112       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 Plus Level 3       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 Speciality I Level 1       5 x 2 ml       IA53113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IA53114       39         Immunoassay Speciality I Level 3       5 x 2 ml       IA53115       39         Immunoassay Speciality II Level 3       5 x 1 ml       IA53118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IA53119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IA5	AMH Control Level 3	3 x 2 ml	AMH10515	36
PTH Control Level 1	AMH Control Level 4	3 x 2 ml	AMH10516	36
PTH Control Level 2       3 x 3 ml       PTH10111       37         PTH Control Level 3       3 x 3 ml       PTH10112       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 Pius Level 3       12 x 5 ml       IA3109       38         Immunoassay Premium Pius Level 1       12 x 5 ml       IA3110       38         Immunoassay Premium Pius Level 2       12 x 5 ml       IA3111       38         Immunoassay Premium Pius Tri-Level       4 x 3 x 5 ml       IA3111       38         Immunoassay Speciality I Level 3       5 x 2 ml       IAS3113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality II Level 3       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         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml	Liquid Immunoassay Premium Tri-Level	4 x 3 x 5 ml	LIA3108	36
PTH Control Level 3   3 x 3 ml   PTH 10112   37	PTH Control Level 1	3 x 3 ml	PTH10110	37
Immunoassay Premium Level 1	PTH Control Level 2	3 x 3 ml	PTH10111	37
Immunoassay Premium Level 2       12 x 5 ml       IA2639       37         Immunoassay Premium Level 3       12 x 5 ml       IA2640       37         Immunoassay Premium Tri-Level       4 x 3 x 5 ml       IA2633       37         Immunoassay Premium Plus Level 1       12 x 5 ml       IA3109       38         Immunoassay Premium Plus Level 2       12 x 5 ml       IA3110       38         Immunoassay Premium Plus Level 3       12 x 5 ml       IA3111       38         Immunoassay Premium Plus Tri-Level       4 x 3 x 5 ml       IA3112       38         Immunoassay Speciality I Level 3       5 x 2 ml       IAS3113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality II 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       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3<	PTH Control Level 3	3 x 3 ml	PTH10112	37
Immunoassay Premium Level 3       12 x 5 ml       IA2640       37         Immunoassay Premium Tri-Level       4 x 3 x 5 ml       IA2633       37         Immunoassay Premium Plus Level 1       12 x 5 ml       IA3109       38         Immunoassay Premium Plus Level 2       12 x 5 ml       IA3110       38         Immunoassay Premium Plus Level 3       12 x 5 ml       IA3111       38         Immunoassay Premium Plus Tri-Level       4 x 3 x 5 ml       IA3112       38         Immunoassay Speciality I Level 3       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         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Lev	Immunoassay Premium Level 1	12 x 5 ml	IA2638	37
Immunoassay Premium Tri-Level       4 x 3 x 5 ml       IA2633       37         Immunoassay Premium Plus Level 1       12 x 5 ml       IA3109       38         Immunoassay Premium Plus Level 2       12 x 5 ml       IA3110       38         Immunoassay Premium Plus Level 3       12 x 5 ml       IA3111       38         Immunoassay Premium Plus Tri-Level       4 x 3 x 5 ml       IA3112       38         Immunoassay Speciality I Level 1       5 x 2 ml       IAS3113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality II 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         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality	Immunoassay Premium Level 2	12 x 5 ml	IA2639	37
Immunoassay Premium Plus Level 1       12 x 5 ml       IA3109       38         Immunoassay Premium Plus Level 2       12 x 5 ml       IA3110       38         Immunoassay Premium Plus Level 3       12 x 5 ml       IA3111       38         Immunoassay Premium Plus Tri-Level       4 x 3 x 5 ml       IA3112       38         Immunoassay Speciality I Level 1       5 x 2 ml       IAS3113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality II Level 3       5 x 2 ml       IAS3115       39         Immunoassay Speciality II Level 1       5 x 1 ml       IAS3117       39         Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Premium Level 3	12 x 5 ml	IA2640	37
Immunoassay Premium Plus Level 2       12 x 5 ml       IA3110       38         Immunoassay Premium Plus Level 3       12 x 5 ml       IA3111       38         Immunoassay Premium Plus Tri-Level       4 x 3 x 5 ml       IA3112       38         Immunoassay Speciality I Level 1       5 x 2 ml       IAS3113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality I Level 3       5 x 2 ml       IAS3115       39         Immunoassay Speciality II Level 1       5 x 1 ml       IAS3117       39         Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3118       39         Immunoassay Specialit	Immunoassay Premium Tri-Level	4 x 3 x 5 ml	IA2633	37
Immunoassay Premium Plus Level 3       12 x 5 ml       IA3111       38         Immunoassay Premium Plus Tri-Level       4 x 3 x 5 ml       IA3112       38         Immunoassay Speciality I Level 1       5 x 2 ml       IAS3113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality I Level 3       5 x 2 ml       IAS3115       39         Immunoassay Speciality II Level 1       5 x 1 ml       IAS3117       39         Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 3       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109	38
Immunoassay Premium Plus Tri-Level       4 x 3 x 5 ml       IA3112       38         Immunoassay Speciality I Level 1       5 x 2 ml       IAS3113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality II Level 3       5 x 2 ml       IAS3115       39         Immunoassay Speciality II Level 1       5 x 1 ml       IAS3117       39         Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110	38
Immunoassay Speciality I Level 1       5 x 2 ml       IAS3113       39         Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality I Level 3       5 x 2 ml       IAS3115       39         Immunoassay Speciality II Level 1       5 x 1 ml       IAS3117       39         Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111	38
Immunoassay Speciality I Level 2       5 x 2 ml       IAS3114       39         Immunoassay Speciality I Level 3       5 x 2 ml       IAS3115       39         Immunoassay Speciality II Level 1       5 x 1 ml       IAS3117       39         Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Premium Plus Tri-Level	4 x 3 x 5 ml	IA3112	38
Immunoassay Speciality I Level 3       5 x 2 ml       IAS3115       39         Immunoassay Speciality II Level 1       5 x 1 ml       IAS3117       39         Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Speciality I Level 1	5 x 2 ml	IAS3113	39
Immunoassay Speciality II Level 1       5 x 1 ml       IAS3117       39         Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Speciality I Level 2	5 x 2 ml	IAS3114	39
Immunoassay Speciality II Level 2       5 x 1 ml       IAS3118       39         Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Speciality I Level 3	5 x 2 ml	IAS3115	39
Immunoassay Speciality II Level 3       5 x 1 ml       IAS3119       39         Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Speciality II Level 1	5 x 1 ml	IAS3117	39
Tumour Marker Control Level 2       3 x 2 ml       TU5002       40         Tumour Marker Control Level 3       3 x 2 ml       TU5003       40         Maternal Screening Control Level 1       3 x 1 ml       MSS5024       40         Maternal Screening Control Level 2       3 x 1 ml       MSS5025       40	Immunoassay Speciality II Level 2	5 x 1 ml	IAS3118	39
Tumour Marker Control Level 3         3 x 2 ml         TU5003         40           Maternal Screening Control Level 1         3 x 1 ml         MSS5024         40           Maternal Screening Control Level 2         3 x 1 ml         MSS5025         40	Immunoassay Speciality II Level 3	5 x 1 ml	IAS3119	39
Maternal Screening Control Level 1         3 x 1 ml         MSS5024         40           Maternal Screening Control Level 2         3 x 1 ml         MSS5025         40	Tumour Marker Control Level 2	3 x 2 ml	TU5002	40
Maternal Screening Control Level 2 3 x 1 ml MSS5025 40	Tumour Marker Control Level 3	3 x 2 ml	TU5003	40
	Maternal Screening Control Level 1	3 x 1 ml	MSS5024	40
Maternal Screening Control Level 3 3 x 1 ml MSS5026 40	Maternal Screening Control Level 2	3 x 1 ml	MSS5025	40
	Maternal Screening Control Level 3	3 x 1 ml	MSS5026	40







Lyophilised for enhanced stability



Assayed target values provided



### 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). An AMH test is often used to check a woman's ability to produce eggs that can be fertilized for pregnancy. The number declines as a woman gets older. AMH levels help show how many potential egg cells a woman has left. Thus, helping women to make informed decisions about their health.

- 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

### Liquid Immunoassay Premium Control 🔯 🎯 🛊





	Aı	nalytes	
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 <sub>12</sub>

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<sub>12</sub> levels suitable for Anaemia monitoring
- Stable to expiry date at -20°C to -70°C
- Open vial stability of up to 7 days at 2°C to 8°C

Description	Size	Cat. No.
Liquid Immunoassay Premium Tri-Level	$4 \times 3 \times 5 \text{ ml}$	LIA3108

### **IMMUNOASSAY**







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

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

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

### Immunoassay Premium Control 👢 🎯 🛊





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

Efficiently combining 52 analytes in total, the Immunoassay Premium Control is designed to cover routine immunoassay testing in a single vial. The additional benefit of clinically relevant concentrations will not only ensure accurate performance at key decision levels, but will also eliminate the need for additional low/high controls at extra expense. As an assayed control, instrument specific target values and ranges are provided for up to 48 analytes, including fertility, thyroid & steroid hormones, kidney function tests, therapeutic drugs and vitamins, saving you time assigning these in-house. Manufactured using 100% human serum, this control is designed to directly mimic a patient sample, reducing costly shifts when reagent batch is changed.

- · Lyophilised for enhanced stability
- 100% human serum
- Ferritin and Vitamin B<sub>12</sub> 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	3x 4 x 5 ml	IA2633

<sup>+</sup>Values may not be provided for all levels

\*No claims are made regarding value or stability

### Immunoassay Premium Plus Control 👢 🎯 🛊



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

Impressively covering 55 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<sub>12</sub> and TSH will ensure accurate performance at key decision levels and further reduce the number of controls required. Assayed target values are supplied for 51 analytes in this true third party control. Manufactured using 100% human serum, this control is designed to directly mimic a patient sample, reducing costly shifts when reagent batch is changed.

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

Description	Size	Cat. No.
Immunoassay Premium Plus Level 1	12 x 5 ml	IA3109
Immunoassay Premium Plus Level 2	12 x 5 ml	IA3110
Immunoassay Premium Plus Level 3	12 x 5 ml	IA3111
Immunoassay Premium Plus Tri-level	$3x 4 \times 5 \text{ m}$	IA3112

\*Values may not be provided for all levels

\*No claims are made regarding value or stability

### **IMMUNOASSAY**

### Immunoassay Speciality I Control 🌡 🎯 🛊



1-25-(OH)<sub>2</sub>-Vitamin D 25-OH-Vitamin D Anti-Thyroglobulin (Anti-TG) C-Peptide Insulin

Anti-Thyroperoxidase (Anti-TPO) Insulin Like Growth Factor-1(IGF-1) Intact PTH (Parathyroid Hormone) Osteocalcin

Procalcitonin

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

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

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

### Immunoassay Speciality II Control & 🌘 🛊



	An	alytes	
Calcitonin	Gastrin	Procalcitonin	Renin

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

- · Lyophilised for enhanced stability
- 100% human serum
- · Assayed target values and ranges for a wide range of immunoassay systems
- Stable to expiry date at 2°C to 8°C
- Reconstitutued stability of 5 days at 2°C to 8°C for Renin, 1 day at 2°C to 8°C for Procalcitonin and 8 hours at 2°C to 8°C for Gastrin and Calcitonin. Stable for 28 days at -20°C

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

### Tumour Marker Control & 🌘 🛉



### CYFRA 21-1 PSA (Free) $\alpha$ -Fetoprotein (AFP) CA 72-4 $\beta\text{-}2\text{-}Microglobulin$ 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

### Maternal Screening Control & 🌑 🛉



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

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

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

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

## IMMUNOLOGY/ PROTEIN CONTROLS

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

### IMMUNOLOGY/PROTEIN

Immuno	logy/Protein Product Range		
Product Description	Size	Cat. No.	Page No.
Specific Protein Control Level 1	3 x 1 ml	PS2682	43
Specific Protein Control Level 2	3 x 1 ml	PS2683	43
Specific Protein Control Level 3	3 x 1 ml	PS2684	43
Specific Protein Control Level 1	6 x 3 ml	PS10221	43
Specific Protein Control Level 2	6 x 3 ml	PS10222	43
Specific Protein Control Level 3	6 x 3 ml	PS10223	43
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2691	43
Specific Protein Calibrator (Liquid)	5 x 1 ml	IT2692	44
Liquid CRP Control Level 2	10 x 1 ml	CP2480	44
Liquid CRP Control Level 3	10 x 1 ml	CP2481	44
High Sensitivity CRP Control Level 1	10 x 1 ml	CP2476	44
High Sensitivity CRP Control Level 2	10 x 1 ml	CP2477	44
High Sensitivity CRP Calibrator Series	6 x 2 ml	CP2478	44
CRP Full Range Calibrator	6 x 1 ml	CP2499	44
Canine CRP Control Level 2	3 x 1 ml	CP2803	44
Canine CRP Control Level 3	3 x 1 ml	CP2804	44
CSF Control Level 2	10 x 3 ml	CF1500	45
CSF Control Level 3	10 x 3 ml	CF1501	45
Liquid CSF Control Level 1	10 x 3 ml	CF10138	45
Liquid CSF Control Level 2	10 x 3 ml	CF10139	45
β-2-Microglobulin Calibrator	3 x 1 ml	BM10444	45
β-2-Microglobulin Calibrator	3 x 1 ml	BM1362	45
Cystatin C Control Level 2	3 x 2 ml	CYS10446	46
Cystatin C Control Level 3	3 x 2 ml	CYS10447	46
Cystatin C Calibrator	5 x 2 ml	CYS10445	46
Immunoglobulin Liquid Protein Calibrator	3 x 1 ml	IT3861	46
IgE Calibrator Series	6 x 1 ml	IE2492	46
sTfR Control Level 1 & 2	3 x 2 x 1 ml	TF10162	47
sTfR Calibrator	6 x 1 ml	TF10161	47



ready-to-use





Lyophilised for enhanced stability



Assayed target values provided



### **IMMUNOLOGY/PROTEIN**

### Specific Protein Control 6 0 1





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

 $\beta\text{-}2\text{-}Microglobulin$ Ceruloplasmin Complement C3 Complement C4 CRP Ferritin Haptoglobin

Immunoglobulin A (IgA) Immunoglobulin E (IgE) Immunoglobulin G (IgG) Immunoglobulin M (IgM) Kappa Light Chain Lambda Light Chain Lambda Light Chain (Free)+

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

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

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

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

\*Not for use in USA.

### Specific Protein Calibrator 6 🌘 🛊





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

CRP Ferritin Haptoglobin

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

Prealbumin Rheumatoid Factor (RF) Transferrin

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

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

Cat. No.

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

### **IMMUNOLOGY/PROT**

### Specific Protein Calibrator - Requires pre-dilution



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

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

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

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

FOR USE WITH SAMPLES THAT REQUIRE PRE-DILUTION

### CRP Controls and Calibrator





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

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

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

Canine CRP Control 6



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

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

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

### **IMMUNOLOGY/PROTEIN**

### CSF Control &





 $\alpha$ -1-Globulin (Electrophoresis)\* α-2-Globulin (Electrophoresis)\* Albumin (Electrophoresis)\*

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

Glucose Immunoglobulin G (IgG) Lactate

Protein (Total) Sodium

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

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

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

\*No claims are made regarding values or stability.

### Liquid CSF Control 6 0



 $\alpha$ -1-Globulin (Electrophoresis)\* α-2-Globulin (Electrophoresis)\* Albumin (Electrophoresis)\* β-Globulin (Electrophoresis)\*

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

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

Microalbumin Protein (Total) Sodium

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

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

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

\*No claims are made regarding values or stability.

### 





Our dedicated  $\beta$ -2-Microglobulin calibrators are designed for use in the calibration of  $\beta$ -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

### **IMMUNOLOGY/PROT**

### Cystatin C Control and Calibrator 🖡 🎯 🛊



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

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

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

### Immunoglobulin Liquid Protein Calibrator



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

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

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

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

### lgE 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.
loE Calibrator Series	6 x 1 ml	IF2492

### **IMMUNOLOGY/PROTEIN**

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





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

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

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

# INFECTIOUS DISEASE CONTROLS (SEROLOGY)

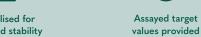
The Acusera range of serology controls is designed to deliver a cost effective, high quality solution for the analysis of infectious diseases using our multi-marker controls that cover a wide range of testing. These liquid ready-to-use controls come with an unrivalled 60 day open-vial stability whilst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

Infectious Disease (Serology) Product Range			
Product Description	Size	Cat. No.	Page No.
Anti SARS-CoV-2 Controls	2 x 2 x 4 ml	COV10460	50
Anti-SARS-CoV-2 Spike Controls	2 x 2 x 4 ml	COV10533	50
EBV Positive Control	1 x 5 ml	SR10350	50
Lyme Disease Negative Control	1 x 5 ml	SR10345	51
Lyme Disease Positive Control	1 x 5 ml	SR10346	51
HBeAg Positive Control	1 x 5 ml	SR10459	51
HIV-1 P24Ag Positive Control	1 x 5 ml	SR10458	51
Serology Negative Control	6 x 5 ml	SR10351	51
Serology I Positive Control	3 x 5 ml	SR10352	51
Serology II Positive Control	3 x 5 ml	SR10353	51
Serology III Positive Control	3 x 5 ml	SR10354	51
ToRCH Negative Control	6 x 5 ml	SR10347	52
ToRCH IgG Positive Control	3 x 5 ml	SR10348	52
ToRCH IgM Positive Control	3 x 5 ml	SR10349	52













### Anti-SARS-CoV-2 Controls



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

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

Description	Size	Cat. No.	If running the SARS-CoV-2 for spike protein, please be aware that positive control will need
Anti-SARS-CoV-2 Controls	2 x 4ml (Positive) 2 x 4ml (Negative)	COV10460	to be diluted for spike protein antibodies.

### Anti-SARS-CoV-2 Spike Control



SARS-CoV-2 Spike negative/non-reactive and positive/reactive controls are intended for use with in vitro assays for the determination of spike antibodies to SARS-CoV-2. These controls are unassayed and are suitable for use on various analysers, therefore making them useful in determining the precision of testing systems and allows performance monitoring of multiple test systems.

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

Description	Size	Cat. No.
Anti-SARS-CoV-2 Spike Controls	2 x 4 ml (Positive) 2 x 4 ml (Negative)	COV10533

### Epstein Barr Virus (EBV) Control



|--|

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

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

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

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

### Lyme Disease (Borrelia burgdorferi) Control



### Analytes

Borrelia burgdorferi IgG

Borrelia burgdorferi IgM

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

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

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

### Serology Controls



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

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

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

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

### ToRCH Controls



### **Analytes**

### **ToRCH Negative**

Cytomegalovirus (CMV) IgG Cytomegalovirus (CMV) IgM Epstein Barr Virus (EBV) EBNA IgG Epstein Barr Virus (EBV) VCA IgG Epstein Barr Virus (EBV) IgM Helicobacter pylori IgG Herpes Simplex Virus 1 (HSV-1) IgG Herpes Simplex Virus 1 (HSV-1) IgM Herpes Simplex Virus 2 (HSV-2) IgG Herpes Simplex Virus 2 (HSV-2) IgM Measles IgG Mumps IgG

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

### ToRCH IgG Positive

Cytomegalovirus (CMV) IgG Helicobacter pylori IgG Herpes Simplex Virus 1 (HSV-1) IgG Herpes Simplex Virus 2 (HSV-2) IgG Measles IgG

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

### ToRCH IgM Positive

Cytomegalovirus (CMV) IgM Herpes Simplex Virus 1 (HSV-1) IgM Herpes Simplex Virus 2 (HSV-2) IgM Rubella IgM Toxoplasma gondii IgM

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

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

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

### LIPID CONTROLS

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

### **LIPIDS**

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













### **LIPIDS**

### Lipid Control 👢 🎯 🛉

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

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

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

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

### 





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

### Apolipoprotein Control and Calibrators 👢 🎯 🛊



### **Analytes**

### **Apolipoprotein Control**

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

### Apolipoprotein Calibrator

Apolipoprotein A-I Apolipoprotein B

### Apolipoprotein Calibrator 2

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

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

- · Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- · Control reconstituted stability of 7 days at 2°C to 8°C for Apolipoprotein A-II, 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

### 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.

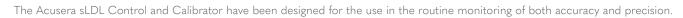
- · Lyophilised for enhanced stability
- 100% human serum
- Stable to expiry date at 2°C to 8°C
- Reconstituted stability of 14 days at 2°C to 8°C
- Multi-point calibrator

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 👢 🎯 🛉







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

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

# SPECIALITY AND RESEARCH CONTROLS

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

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











### Antimicrobial Control II & @



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

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

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

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

### Antimicrobial Control III &



	А	nalytes	
AHD AMOZ	AOZ	Chloramphenicol	Semicarbazine (SEM)

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

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

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

### Growth Promoter Control &



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

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

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

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

### Adhesion Molecules Control and Calibrator 👢 🎯 🛊



### Analytes

E-Selectin (E-SEL) Intercellular Adhesion Molecule-1 (ICAM-1) L-Selectin (L-SEL)

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

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

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

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

### Cerebral Array II Control 👢 🎯 🛉



### **Analytes**

CRP D-dimer Neuron Specific Enolase (NSE)

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

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

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

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

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



### Analytes

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

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

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

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

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



### Cytokine Array III Control 👢 🎯 🛊

### **Analytes**

GM-CSF Interleukin-5 (IL-5)

Interleukin-15 (IL-15) Macrophage Inflammatory Protein-1  $\alpha$  (MIP-1 $\alpha$ )

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

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

Description Size Cat. No. Cytokine Array III Tri-Level Control  $3 \times 3 \times 1 \text{ ml}$ CY5012

### Cytokine Array IV Control & 🌘 🛉



### Analytes

Matrix Metalloproteinase-9 (MMP-9) Soluble Interleukin-2-Receptor  $\alpha$  (sIL-2R $\alpha$ ) Soluble Interleukin-6-Receptor (sIL-6R)

Soluble Tumour Necrosis Factor Receptor I (sTNFRI) Soluble Tumour Necrosis Factor Receptor II (sTNFRII)

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

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

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

### Evidence Immunoassay Control & © †



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

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

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

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

### Synthetic Steroids Control and Calibrator 👢 🍥



	Analy	tes	
17β-Clostebol Ethinylestradiol	Gestagens (Generic)	Methandriol	Methyltestosterone

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

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

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





### Metabolic Syndrome Array I Control and Calibrator 👢 🎯 🛉

	A	nalytes	
C-Peptide Ferritin Insulin	Interleukin-1α (1L-1α) Interleukin-6 (1L-6) Leptin	Plasminogen Activator Inhibitor-1 Resistin	Tumour Necrosis Factor $\alpha$ (TNF $\alpha$ )

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

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

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

### Metabolic Syndrome Array II Control and Calibrator 👢 🎯 🛊



	Analytes	
Adiponectin	CRP	Cystatin C

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

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

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

### Thyroid Total Calibrator 👢 🎯 🛉



	Analytes	
T3 (Total)	T4(Total)	TSH

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

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

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

### Thyroid Free Calibrator 👢 🎯 🛉



Analytes				
T3 (Free)	T4(Free)	TSH		

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

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

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

### THERAPEUTIC DRUG CONTROLS

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

### THERAPEUTIC DRUG

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













### THERAPEUTIC DRUG

### Therapeutic Drug Control & 🌘 🛉



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

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

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

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

### Therapeutic Drug Calibrator & 🌡 🎯 🛉



Analytes			
Carbamazepine Digoxin	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

### TOXICOLOGY CONTROLS

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

### **TOXICOLOGY**

Toxicology Product Range			
Product Description	Size	Cat. No.	Page No.
Ethanol Calibrator/Control Set	4 x 10 ml	DA2703	70
Drugs of Abuse Array 1 Plus (Urine) Controls	4 x 2 x 1 ml	EV3745	70
Drugs of Abuse Array 1 Plus (Urine) Calibrators	9 x 1 ml	EV3744	70
Drugs of Abuse Array 1 Plus (Whole Blood) Controls	4 x 2 x 1 ml	EV3750	70
Drugs of Abuse Array 1 Plus (Whole Blood) Calibrators	9 x 1 ml	EV3749	70
Drugs of Abuse Array II (Urine) Controls	4 x 2 x 1 ml	EV3657	70
Drugs of Abuse Array II (Whole Blood) Controls	4 x 2 x 1 ml	EV3682	70
Drugs of Abuse Array II (Urine) Calibrator Series	9 x 1 ml	EV3656	70
Drugs of Abuse Array II (Whole Blood) Calibrator Series	9 x 1 ml	EV3687	70
Drugs of Abuse Array III (Urine) Control	4 x 2 x 1 ml	EV3830	71
Drugs of Abuse Array III (Urine) Calibrator Series	9 x 1 ml	EV3829	71
Drugs of Abuse Array III (Whole Blood) Control	4 x 2 x 1 ml	EV3794	71
Drugs of Abuse Array III (Whole Blood) Calibrator Series	9 x 1 ml	EV3797	71
Drugs of Abuse Array IV (Urine) Control	4 x 2 x 1 ml	EV3835	71
Drugs of Abuse Array IV (Urine) Calibrator Series	9 x 1 ml	EV3834	71
Drugs of Abuse Array IV (Whole Blood) Control	4 x 2 x 1 ml	EV3809	71
Drugs of Abuse Array IV (Whole Blood) Calibrator Series	9 x 1 ml	EV3808	71
Drugs of Abuse Array V (Urine) Control	4 x 2 x 1 ml	EV3814	72
Drugs of Abuse Array V (Urine) Calibrator Series	9 x 1 ml	EV3815	72
Drugs of Abuse Array V (Whole Blood) Control	4 x 2 x 1 ml	EV3848	72
Drugs of Abuse Array V (Whole Blood) Calibrator Series	9 x 1 ml	EV3847	72







Liquid frozen



Lyophilised for enhanced stability



Assayed target values provided



100% human matrix

# Ethanol Calibrator/Control Set &



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

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

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

# Drugs of Abuse Array 1 Plus Controls and Calibrators 👢 🎯





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

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

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

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

# Drugs of Abuse Array II Controls and Calibrators 👢 🎯



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

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

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

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

# **TOXICOLOGY**

# Drugs of Abuse Array III Controls and Calibrators 👢 🔘





Analy	tes

7-amino Flunitrazepam Chloral Hydrate Metabolite Creatinine

Ethyl Glucuronide Fentanyl Ketamine

Meperidine Meprobamate Zaleplon

Zolpidem Zopiclone

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

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

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

# Drugs of Abuse Array IV Controls and Calibrators 👢 🍥





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

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

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

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

# **TOXICOLOGY**

# Drugs of Abuse Array V Controls and Calibrators &



# Analytes

Bath Salts 1 Bath Salts 2 Benzylpiperazines

Mescaline Phenylpiperazines Salvinorin

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

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

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

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

# URINE CONTROLS

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

# **URINE**

Urine Produc	t Range		
Product Description	Size	Cat. No.	Page No.
Assayed Urine Control Level 2	12 x 10 ml	AU2352	75
Assayed Urine Control Level 3	12 x 10 ml	AU2353	75
Liquid Urine Control Level 2	10 x 10 ml	UC5074	75
Liquid Urine Control Level 3	10 x 10 ml	UC5075	75
Urinalysis Control Level 1	12 x 12 ml	UC5033	76
Urinalysis Control Level 2	12 x 12 ml	UC5034	76
Microalbumin Calibrator Series	6 x 2 ml	MA1567	76







Lyophilised for enhanced stability



Assayed target values provided



100% human matrix

# **URINE**

# Assayed Urine Control 👢 🎯 🛉



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

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

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

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

# Liquid Urine Control 6 1



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

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

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

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

# 



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

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

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

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

# Microalbumin Calibrator 🕻 🎯 🛉



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

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

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

# CUSTOMISED QUALITY CONTROL SERA

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

# **CUSTOMISED QUALITY CONTROL SERA**

For over 40 years, laboratories, EQA scheme organisers and other diagnostic companies have looked to Randox to provide their QC needs. Randox Laboratories manufactures a full portfolio of quality controls, calibrators and standards for over 400 analytes. In addition to 'off the shelf' quality control products, Randox is the world's leading provider of customised control materials. Customising control materials can involve adding/removing analytes, specifying concentrations or choosing alternative vial sizes.

#### Our principal control products are:

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

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

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

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

#### Consolidation

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

#### Tailor Made

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

#### Stability

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

#### **Options**

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

### Flexibility

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

#### Quality

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

#### Choice

3 different formats – lyophilised/liquid/liquid frozen

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.

	Page				_					_																						_		_						
Ant	ioxidant Controls	80	80	80	80	11	14	14	15	15	18	19	20	71	22	23	23	24	24	24	25	25	22	50	20	32	32	32	33	36	36	37	37	88	39	39	40	40	43	43
Bloo	od Gas Controls	rato												ntrol																										
Car	diac Controls	d Calik	tor	2							Control	- 6	utrol	us Co																101	_									
		rol an	alibra	Conti							Plus Co	Contr	s Cor	II M	-	rum							'n			Series			rator	Conti	ontro			trol	_	-				
	nical Chemistry Controls	Cont	and C	(pos	ntrol					tor	m Pl	Plus (	n Plu	remir	Contr	or Se		rator				<u>_</u>	ibrate			or Se			Calibr	MH)	Ğ E		itrol	Con	ontro	ontro		_		
Cor	igulation & Haematology itrols	ansel)	ontrol	(Ran	s Co			rol		alibra	remir	mnic	miur	stry P	ayed (	ibrat	trol	Calib	_	٤		brato	Cal			librat			and (	A) ar	remir		Cor	Plus	V C	y = 0	-	ontro	-	ator
	oetes & Whole Blood	ase (R	ase Co	utase	Statu	-C		Cont	0.	nd C	try P	Pren	ry Pre	hemis	Assa	y Ca	Con	and (	ontro	Seru		Cali	ol and	ontro	101	od Ca	ntrol		ntrol	rmor	say P		miun	miun	scialit	scialit	Contr	ng C	Contr	Salibr
	ntrols nunoassay Controls	eroxid	educt	Dism	idant	Contr	ntrol	rdiac	Contr	trol a	hemis	nistry	emist	ed C	mistry	mistr	thano	ntrol	bin C	vated	outro	ol and	Contr	es C		rolar	°C °C	ontro	е Со	an Ho	ınoas	_	ıy Pre	ty Pre	y Spe	ry Spe	rker (	reeni	tein (	tein (
	•	ione P	ione R	oxide	Intiox	Gas C	c Co	el Ca	T uic	3 Con	on C	Cher	d Ch	Assa)	Che	Che	nia E	se Co	Biliru	in Ele	O Co	Contr	nine (	Indic	danon	Cont	HbA1	OH C	samir	ülleri	lmm	ontro	oassa	oassa	oassa	oassa	r Mai	al Sc	c Pro	c Pro
lmn	nunology/Protein Controls	Glutathione Peroxidase (Ransel) Control and Calibrato	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	Troponin T Control	CK-MB Control and Calibrator	Precision Chemistry Premium	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Liquid Bilirubin Control	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	Serum Indices Control	Haematology Control	HbA1c Control and Calibrator	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Anti-Müllerian Hormone (AMH) Control	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator
#	5-HIAA	L																	_	4	4	4	4	+	+	+	-									$\perp$	4	4	+	
	7-amino flunitrazepam																		$\dashv$	-	$\dashv$	+	+		+		$\vdash$									$\dashv$	+	_	+	
	17-OH-progesterone 17β Clostebol																		$\dashv$	$\dashv$	$\dashv$	+	+	+	+		$\vdash$				х		х	х		+	+	$\dashv$	+	
	1-25-(OH <sub>2</sub> )-Vitamin D																				1	$\top$			t								х	х	х				$\top$	
	25-OH-Vitamin D																					T			T								х	х	х		T		T	
Α	α-1-Acid Glycoprotein										х	х		х									I															Ī	х	
	α-1-Antitrypsin										х	х		х																							4		х	
	α-1-Globulin (Electrophoresis)											х	х	х						-			-													4	4		-	
	α-2-Globulin (Electrophoresis) α-2-Macroglobulin											х	х	х									+				H	H									+		x	
	α-Fetoprotein (AFP)										х	х		х						-		+	+								×		×	x			x	х	x	
	α-HBDH										х	х	х	х	х	х																								
	ACE (Angiotensin Converting Enzyme)											х		х																										
	Acetaminophen																			_		4	_		1	L	L									_	4	_	$\perp$	
	Acid Phosphatase (Non-Prostatic)	L											х		х	х			_	4	4	4	+	+	+	+	-									4	4	4	$\dashv$	
	Acid Phosphatase (Prostatic)  Acid Phosphatase (Total)										x	x	х	х	x	х					-	+		+										H		$\dashv$	+	-	$\dashv$	
	ACTH										х	X	X	X	X	х			+	+	$\dashv$	+		+	+								х	x			+	1	+	-
	Activated Partical Thromboplastin Time (APTT)																		$\dashv$	$\dashv$	$\exists$	$^{\dagger}$	+	)			$\vdash$						_	^			T	$\forall$	$\top$	
	AHD																					T																	T	
	Albumin										х	х	х	х	х	х																							х	
	Albumin (Electrophoresis)											х	х	х							_	4		4	+	-										4	4			
	Aldolase	H																х	-	+	$\dashv$	+	+	+	+	+	$\vdash$			_						+	+	4	+	
	Aldosterone Alkaline Phosphatase (ALP)										х	х	х	х	х	х					$\dashv$	+			+						х		х	х			+		+	
	ALT (GPT)										x	x	x	x	x	х					+	+																		
	AMH																					$\top$			Ť					х									T	
	Amikacin											х		х																	х		х	х						
	Ammonia																х					х		1												4	4			
	AMOZ	H																	-	4	-	+	+	+	+	+	-							H		+	+	$\dashv$	+	
	Amphetamine Amylase	H									х	х	х	х	х	х			$\dashv$	$\dashv$	$\dashv$	+	+	+	+	+	$\vdash$									+	+	$\dashv$	+	-
	Amylase (Pancreatic)										х	х	х	х		х					$\dashv$	$^{+}$	+		$^{+}$													$\top$		
	Androstenedione																																х	х						
	Anti-HAV																																				4			
	Anti-HBc																																				4		4	
	Anti-HBe																			-																	1		-	
	Anti-HBs Anti-HCV																																							
	Anti-HIV1/2																																						+	
	Anti-HTLV 1 / 2																																							
	Anti-SARS-CoV-2																																							
	Anti-SARS-CoV-2 Spike																																							
	Anti-Streptolysin (ASO)					H														-		-	+													4	4		х	х
	Anti-Thyroglobulin (Anti-TG) Anti-Thyroperoxidase (Anti-TPO)																			-			+				H								x					
	Anti-Thrombin III (AT III)																							)											^				х	
	AOZ																																							
	Apolipoprotein A-I										x	х	х	х																										
	Apolipoprotein A-II																																			4	$\perp$			
	Apolipoprotein B										х	х	х	х																							4		4	
	Apolipoprotein C-II																			-																	-		-	
	Apolipoprotein C-III  Apolipoprotein E		H			H														+	-		+				H									+	+		+	
	AST (GOT)										х	х	х	х	х	х																								
															-												1													

																																								Page
44	44	45	45	45	46	46	46	47	50	50	50	51	51	52	55	55	56	56	56	59	59	90	90	61-62	62	63	63-64	64	67	70	70	70	71	71	72	75	75	76	76	
																																		$\overline{}$						Infectious Disease Controls
Specific Protein Calibrator (Requires Pre-dilution)						ator						Lyme Disease (Borrelia burgdorferi) Control				r	LS.					Adhesion Molecules Control and Calibrator		or Series		ator	Metabolic Sydrome Controls and Calibrators		_		Drugs of Abuse Array 1 Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators					(Serology) Lipid Controls
res Pre-					or	Calibra		es				eri) C				ibrato	brato	brator				Call		librate		Calibra	d Calil		ibrato		s and C	and C	and C	and C	and C					
(Requi	or			or	librat	tein (		r Seri		ntrols	ontro	gdorf				ol Cal	d Cali	d Cali	or			ol and		nd Ca	ntrol	and (	ols an		& Cal	Set	ontro	ntrols	ntrols	ntrols	ntrols					Speciality & Research Controls
orator	librat			librat	nd Ca	id Pro		ibrato	ntrols	ke Co	BV) C	ia bur				lester	rol an	rol and	librat	sls	ontrol	Contr	ntrol	rols a	ay Co	ontrol	Contro		ntrol	ontrol	Plus C	II Cor	□ Co	°C	°C >	lo	_		ator	Therapeutic Drug Controls
Calii	ug ug		lon	lin Ca	trol a	n Liqu		ld Cal	-2 Co	-2 Spi	rus (E	Borrel	slo	S		L Cho	Cont	Cont	nd Ca	Sontro	ter Co	cules	S	Cont	noass	ids C	ome (	tors	ng Co	tor/Co	\rray1	Array	Array	Array	Array	Cont	ontro	101	Salibra	Toxicology Controls
roteir	trols a	trol	F Cor	ndolgo	C Cor	lobuli	ator.	trol ar	S-CoV	S-CoV	arr Vi	ease (	Contr	ontro	itrol	L/HD	rotein	in (a)	ıtrol a	obial C	romo	Mole	Array	Array	lmmu	Stero	Sydr	Salibra	tic Dr	alibra	/ esnq	Abuse	Abuse	Abuse	Abuse	Urine	ine C	Cont	) uimr	Urine Controls
scific F	CRP Controls and Calibrator	CSF Control	Liquid CSF Control	$\beta$ -2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	sTfR Control and Calibrator Series	Anti SARS-CoV-2 Controls	Anti SARS-CoV-2 Spike Controls	Epstein Barr Virus (EBV) Control	ne Dis	Serology Controls	ToRCH Controls	Lipid Control	Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	nesion	Cerebral Array II Control	Cytokine Array Controls and Calibrator	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	taboli	Thyroid Calibrators	Therapeutic Drug Control & Calibrator	Ethanol Calibrator/Control Set	gs of /	gs of	gs of	gs of	gs of	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Microalbumin Calibrator	
Spe	S	CSI	Liq	β-2	Cys	<u> </u>	腸	sTfl	Ant	Ant	Eps	ᅷ	Ser	ToR	Lipi	Dir	Apo	Lip	SLD	Ant	å	Ad	Ce	Ç	Evic	Syn	Me	Thy	The	Eth	Dru	Dru	Dru	Dru	Dru	Ass		Į.	Ξ	
-	+	_	$\dashv$								$\vdash$																		$\dashv$	$\vdash$				х			х			5-HIAA # 7-amino flunitrazepam
-	$^{\dagger}$																																	^						17-OH-progesterone
																											х													17β Clostebol
	4																																							1-25-(OH <sub>2</sub> )-Vitamin D
-	+	_	$\dashv$								H																		$\dashv$	Н										25-OH-Vitamin D α-1-Acid Glycoprotein A
-	+										$\vdash$																		$\dashv$	Н										α-1-Antitrypsin
ı	1	х		х																																				α-1-Globulin (Electrophoresis)
	1	х		х																																				α-2-Globulin (Electrophoresis)
-	+		_								┡																		$\dashv$											α-2-Macroglobulin
-	+		$\dashv$								$\vdash$																		$\dashv$											α-Fetoprotein (AFP) α-HBDH
h	1																																							ACE (Angiotensin Converting Enzyme)
																																			x					Acetaminophen
	4																																							Acid Phosphatase (Non-Prostatic)
-	+										┝																		$\dashv$	Н										Acid Phosphatase (Prostatic)
-	+																													Н										Acid Phosphatase (Total)  ACTH
																																								Activated Partical Thromboplastin Time (APTT)
																					х																			AHD
-	+	_																																					х	Albumin
-	+	х		х																										Н										Albumin (Electrophoresis)  Aldolase
	+																																							Aldosterone
																																								Alkaline Phosphatase (ALP)
-	4										-																													ALT (GPT)
-	+										$\vdash$																		$\dashv$											AMH Amikacin
	$^{+}$																													х										Ammonia
																					х																			AMOZ
	4																															х								Amphetamine
-	+		$\dashv$								⊢																		$\dashv$	$\blacksquare$							х	х		Amylase
-	+										$\vdash$																		$\dashv$	Н										Amylase (Pancreatic)  Androstenedione
														х																										Anti-HAV
	1													х																										Anti-HBc
-	+										┡			х															$\dashv$											Anti-HBe
-	+													x																Н										Anti-HBs Anti-HCV
r	$\dagger$													х																Н										Anti-HIV1/2
														х																										Anti-HTLV1/2
-	4									×	L																													Anti-SARS-CoV-2
-	+										х										H		H																	Anti-SARS-CoV-2 Spike Anti-Streptolysin (ASO)
+	+																																							Anti-Streptolysin (ASO)  Anti-Thyroglobulin (Anti-TG)
																																								Anti-Thyroperoxidase (Anti-TPO)
	1																																							Anti-Thrombin III (AT III)
-	-																				х																			AOZ
-																х	x																							Apolipoprotein A-II
																х	x																							Apolipoprotein B
																	х																							Apolipoprotein C-II
-	1																х																							Apolipoprotein C-III
-	+																х																							Apolipoprotein E  AST (GOT)

	Clin Coa Con Diak Con mm	ioxidant Controls ad Gas Controls diac Contr	Glutathione Peroxidase (Ransel) Control and Calibrato 08	Glutathione Reductase Control and Calibrator 08	Superoxide Dismutase (Ransod) Control 08	tatus Control	lo		ontrol			5			Plus Control		Clinical Chemistry Calibrator Serum 23  Ammonia Ethanol Control 23	orator		24	25			20	29	HbA1c Control and Calibrator Series		32	Calibrator	10	Liquid Immunoassay Premium Control			rol		Control	trol		r 43
	Card Clin Coa Con Diak Con mm	diac Controls  ical Chemistry Controls  igulation & Haematology  itrols  betes & Whole Blood  itrols  nunoassay Controls  nunology/Protein Controls    Globulin (Electrophoresis)    -2-Microglobulin    -Agonists (Clenbuterol)	Glutathione Peroxidase (Ransel) Control and Calibrato	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	oponin T Control	MB Control and Calibrator	on Chemistry Premium Plus Control	hemistry Premium Plus Control	emistry Premium Plus Control	Chemistry Premium Plus Control	/ Assayed Control	alibrator Serum	brator					orator			or Series			ol and Calibrator	one (AMH) Control	y Premium Control		ium Control	nium Plus Control	siality I Control	eciality II Control	ontrol 9 Control	ntrol	<u>.</u>
	Clin Coa Con Diak Con mm	ical Chemistry Controls gulation & Haematology itrols betes & Whole Blood itrols nunoassay Controls nunology/Protein Controls	Glutathione Peroxidase (Ransel) Control and Calik	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	oponin T Control	MB Control and Calibrator	on Chemistry Premium Plus Control	hemistry Premium Plus Control	emistry Premium Plus Control	Chemistry Premium Plus Co	/ Assayed Control	alibrator Serum	ibrator				_	orator			or Series			ol and Calibrator	one (AMH) Control	y Premium Control		ium Control	nium Plus Control	siality I Control	eciality II Control	ontrol g Control	ntrol	<u></u>
	Clin Coa Con Diak Con mm	ical Chemistry Controls gulation & Haematology itrols betes & Whole Blood itrols nunoassay Controls nunology/Protein Controls	Glutathione Peroxidase (Ransel) Control an	Glutathione Reductase Control and Calibra	Superoxide Dismutase (Ransod) Cont	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	oponin T Control	MB Control and Calibrator	on Chemistry Premium Plus Co	hemistry Premium Plus Contr	emistry Premium Plus Cor	Chemistry Premium Pl	/ Assayed Control	alibrator Serum	ibrator					orator			or Series			and Calibrator	one (AMH) Conti	y Premium Contro		ium Control	mium Plus Control	siality I Control	eciality II Control	ontrol 9 Control	ntrol	<u></u>
	Coa Corn Diakk Corn mm B	gulation & Haematology strols setes & Whole Blood strols sunnoassay Controls sunnology/Protein Controls  [β-Globulin (Electrophoresis) [β-2-Microglobulin [β-Agonists (Clenbuterol) Barbiturates BASO-X BASO-Y	Glutathione Peroxidase (Ransel) Cont	Glutathione Reductase Control and C	Superoxide Dismutase (Ransod) (	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	oponin T Control	MB Control and Calibrator	on Chemistry Premium Ple	hemistry Premium Plus (	emistry Premium Plu:	d Chemistry Premiu	/ Assayed Contr	alibrator Se	ibrator				_	orato			or Se			and Calibr	one (AMH)	y Premium Co		ium Control	mium Plus Con	iality I Contro	eciality II Contro	ontrol 9 Control	ntrol	,_
	ConDiakton	htrols betes & Whole Blood bitrols bunoassay Controls bunology/Protein Controls  β-Globulin (Electrophoresis) β-2-Microglobulin β-Agonists (Clenbuterol) Barbiturates BASO-X BASO-Y	Glutathione Peroxidase (Ransel)	Glutathione Reductase Control	Superoxide Dismutase (Ran	Total Antioxidant Status Co	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	oponin T Control	MB Control and Calibra	on Chemistry Premiu	hemistry Premium	emistry Premiur	Chemistry P	/ Assayed	alibrat												and (	one (A	y Premiu		ium Cor	nium Plus	iality I C	eciality II C	ontrol 9 Contro	ntrol	
	Con mm mm B	hunoassay Controls hunology/Protein Controls  β-Globulin (Electrophoresis) β-2-Microglobulin β-Agonists (Clenbuterol) Barbiturates BASO-X BASO-Y	Glutathione Peroxidase (R	Glutathione Reductase Co	Superoxide Dismutase	Total Antioxidant Statu	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Cont	oponin T Control	MB Control and C	on Chemistry P	hemistry Pren	emistry Pre	Chemis	/ Ass	g   2	Sal S	_	Ε		brato	Cal			librat				0	-		Ë.	mium	ialit	ecialit	ontr	ntr	ato
I	mm B	BASO-X BASO-Y	Glutathione Peroxid	Glutathione Reducts	Superoxide Dismu	Total Antioxidant	Blood Gas Contro	Cardiac Control	Tri-Level Cardiac	oponin T Contr	MB Control a	on Chemis	hemistry	emist				and (	ontro	Seru		Cali	ol and	ntro	ıtrol	d Ca	ıtrol		ntro	Ξ	Sa		E					100	Salibr
	В	B-Globulin (Electrophoresis) β-2-Microglobulin β-Agonists (Clenbuterol) Barbiturates BASO-X BASO-Y	Glutathione Pe	Glutathione R	Superoxide	Total Antiox	Blood Gas C	Cardiac Cor	Tri-Level Ca	oponin T (	MB Con	ou C	hen		9 I	nistry	mistr	ntrol	bin C	vated	ntrol	ol and	Sontre	es Co	S	rol an	c Cor	ntro	e Co	an Ho	noass		y Pre	y Pre	y Spe	y Sp	Ker	bein C	bein C
	В	β-Globulin (Electrophoresis) β-2-Microglobulin β-Agonists (Clenbuterol) Barbiturates BASO-X BASO-Y	Glutathi	Glutathi	Supero	Total A	Blood (	Cardia	Tri-Lev	nodo	Ψ.		ਹ l -	ا او	Assay	Cher	Che	ပို	Biliru	n Ele	ol Co	ontro	ine C	Indic	tolog	Cont	HbA1	Ŭ H C	samin	ülleri	mmu	ontro	oassa	oassa	oassa	oassa	al Sci	c Prot	c Prot
		β-2-Microglobulin β-Agonists (Clenbuterol) Barbiturates BASO-X BASO-Y							-	F	S .	Precisi	Liquid	Assaye	Liquid	Bovine	Clinical Chemistry Calibra	Aldolas	Liquid Bilirubin Control	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	Serum Indices Control	Haematology Control	HbA1c	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and	Anti-M	Liquid	PTH Control	Immun	Immun	Immun	lmmun	Maternal Screening Con	Specific Protein Control	Specific Protein Calibrator
		β-Agonists (Clenbuterol) Barbiturates BASO-X BASO-Y					-	4	4		4	4	x :	x 2	х							_	4	1	1					_							1	1	
		Barbiturates BASO-X BASO-Y						4	_	_	4	4	х	2	х							_	+		+					_	х	_	х	х			c	х	
		BASO-X BASO-Y			$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	+	+	+	+		+			$\dashv$	+	+	+	+	H	H		-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+		$\vdash$
		BASO-Y				-		$\dashv$	$\dashv$		+	+											+	+	×		Н			$\dashv$		-							$\vdash$
						+	1	$\dashv$	$\dashv$	+	+	+										+	+	+	×					$\dashv$	1	+	1			+			
		Basophils (BASO)				$\dashv$	1	$\forall$	$\forall$	+		$^{+}$		$^{+}$							7	$^{+}$	$^{+}$	T	×	H				$\dashv$	7	$\dashv$	+	1	+	$^{+}$			
		Basophils % (% BASO)																							×														
		Bath Salts 1																																					
		Bath Salts 2																																					
		Benzodiazepines 1 + 2												1									1																
		Benzoylecgonine (Cocaine)																																					
		Benzylpiperazines			-	$\dashv$	4	$\dashv$	$\dashv$	4	+	+	+	+	+	+		+			_	+	+	+	+	H				$\dashv$	-	$\dashv$	4	+	_	_			
		Bicarbonate			-	-	х	$\dashv$	$\dashv$	_	_	-		_	_	+	х				-	+	+	+	+					$\dashv$	-	$\dashv$	-	-	_	_			
		Bile Acids Bilirubin (Direct)		Н		$\dashv$	-	$\dashv$	$\dashv$	+	_	$\rightarrow$		_	$\rightarrow$	_	x		х	x	-	+	+	+	+					$\dashv$	-	+	+	+	+	+	+	$\vdash$	
		Bilirubin (Total)			+	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	_	$\rightarrow$		_	+		x		X	x	$\dashv$	+	+	+	+	H	Н			$\dashv$	_	$\dashv$	$\dashv$	+	+	+			
		Blood				+	1	$\exists$	$\exists$	1		^	Α .	^ /		^ /	^			^		1	$^{\dagger}$	t	t	H				$\dashv$		1	1	1	1	+			
		BNP				$\neg$		$\dashv$	$\exists$			$\dagger$										1	$\top$		T	T				$\dashv$		$\exists$							
		Boldenone																					T		T														
		Borrelia burgdorferi IgG																																					
		Borrelia burgdorferi IgM																																					
_		Buprenorphine				_	4	_	_	_	4	4	_	4		1						4	4		1	L	Ш			_		_	_		4	4	1	4	
	С	C-Peptide						4	_	_	4	4										_	+	+	+					_		_	х	х	х	_	+	4	_
		CA 15-3		$\square$	-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	+	+	+	+	+		+			_	+	+	+	+	H				$\dashv$	-	$\dashv$	4	х	+	_	c	+	$\vdash$
		CA 19-9 CA 72-4				-		$\dashv$	$\dashv$		+	+											+	+	+		Н			$\dashv$				х		_	c		$\vdash$
		CA 125				+	1	$\dashv$	$\dashv$	+	+	+										+	+	+	+	H				$\dashv$		$\dashv$	+	х		_	(		
		Caffeine						$\dashv$	$\dashv$		$\top$	$^{+}$	х		x										$^{+}$		$\vdash$			$\dashv$									Н
		Calcitonin						$\exists$	T	1	Т	Ť										T	Ť		T	T				T						х	c		П
		Calcium					х					х	х :	х 2	x >	х 2	x																						
		Cannabinoids																																					
		Carbamazepine										$\rightarrow$	х	3	х																х		_	х					
		CEA										х	х	3	х																х		х	х			c		
		Certiofur									1				-								-											-				H	
		Ceruloplasmin Chloral Hydrate Metabolite							-			х	х	3	x								+															х	х
		Chloral Hydrate Metabolite Chloramphenicol																					+																
		Chloride					х					x	х :	x :	x >	x :	x																						
		Cholesterol (HDL)									_	_		_	x																								
		Cholesterol (LDL)										_	х	_	x																								
		Cholesterol (Total)										x	х :	x :	x >	x :	х																						
		Cholinesterase										x	x :	x :	x	3	х																						
		CK-MB							х		х																												
		CK (Total)							х		_	-		_	_	x :	х																						
		Complement C3										_	х	_	х																							х	х
		Complement C4									_	$\rightarrow$	x	_	x								-															х	х
		Corper Corticosteroids		H			-	-	-	-	+	х	x :	× 2	x >	X 2	х					+	+		H	H	H			-	$\dashv$		-	+	+			H	H
		Cortisol										х	х :	x :	x >	x						+	+								x		х	х					
		CRP											x		x																							х	х
		Creatinine										-	_	_	_	x :	x																						
		Cyclosporine																																					
		Cytomegalovirus (CMV) IgG																																					
		Cytomegalovirus (CMV) IgM																																					

			1	Т													T	T						2			40													
44	45	45	45 A	2 4	04 ;	46	46	47	20	20		20 1	2	2	52	ស្គ ដ	Ω ù	S L	8 1	3 6	000	9	909	61-62	62	63	63-64	64	29	70	2	۶ i	7 7	, 5	75	75	92	9/		Immunology/Protein Contro
																		Т	Т		П	Т	П	es			(0				ors	STS.	ors	210	5					Infectious Disease Contro (Serolog
						or.							ntro									ator.		Seri		or	ators				librate	brato	ibrat	ibuat	BIG					
						brat						9	Ŝ				ator	ators				rdile	2	rator		ibrat	alibr		ator		nd Ca	Cali	d Cal		5					Lipid Contro
					ator	Immunoglobulin Liquid Protein Calibrator		sTfR Control and Calibrator Series		sic	-	٠ و ا	Lyme Disease (Borrelia burgdorferi) Control				Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	alibra			Adhesion Molecules Control and Calibrator		Cytokine Array Controls and Calibrator Series	_	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators		Therapeutic Drug Control & Calibrator		Drugs of Abuse Array 1 Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	During of Abrico Arroy V Codes load Oliberton	200				5	Speciality & Research Contro
tor			r	D-z-Ivilcroglobulii Calibi atol	alibr	oteir		or Se	S	Anti SARS-CoV-2 Spike Controls		Epstein Barr Virus (EBV) Control	ırgdo			-	o   -	ָל קוש		5	_		5	and (	Evidence Immunoassay Control	ol and	rols a		8	Ethanol Calibrator/Control Set	Contr	ontro	ontro							
libra			il pro	B   C	) a	P P		ibrat	ntrol	ke		) (   RV)	ia br				leste	rol a	11 2	l lola	, tr		ofrol	rols	ay C	ontro	Conti		ntro	ontro	Plus (	0 1	Ŭ   Ω ≡   ≥	2   2	- e	_		ator		Therapeutic Drug Contro
g C		-	5 5	3 -	ro :	Ligu		Cal	2 Col	Spi		ıs (E	orrel	<u>s</u>		1	S .	Cont		onfro	5	9	0	Cont	oass	ds Cc	me C	ors	S Co	or/Co	ray 1	vrray	vray	u I ay	Contr	ntro	-	alibra		Toxicology Contro
ols an	_			in i	cont	ulin	or	l anc	SoV-5	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		۲. ۱۳.	se (B	ontro	trols	0 2	┨.	ein	(a)		100		rav	ray (	mun	teroi	ydro	ibrat	Dru	brate	ise Ar	nse /	use /	) osn	ine	ပိ	ontre	i.		Urine Contro
CRP Controls and Calibrator	CSF Control	Liquid CSE Control	B.2-Microglobulin Calibrator	20 0	۔ ا	oglo	IgE Calibrator	ontro	Anti SARS-CoV-2 Controls	ARS-0		Barı	Disea	Serology Controls	ToRCH Controls	Lipid Control		bbroi	Lipoprotein (a) Control and C	Antimicrobial Controls	Growth Promoter Control	2 2	Cerebral Array II Control	ne Ar	ce In	tic St	olic S	Thyroid Calibrators	eutic	I Cali	f Abu	of Ab	A Ab	2 4	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Microalbumin Calibrator		Office Contro
RP C	SF C	5 5	M.	7-Iul	ystat	muu	E Cal	fR C	ıti S/	ıti S/		steir	me	rolo	E E	bid	rect	diloc		timi;	440	hoci	are br	rtoki	iden	nthe	etab	yroi	erap	hano	o sgn.	ngs o	ngs o	ngs n	saye	ping	(leui-	icroa		
Ö					5 .	≐	<u>p0</u>	Ls	Ā	Ā	-	<u>ا</u> ٿا	1	Se	은 :	5 2	<u> </u>	₹ :	<u> </u>	A A	٥	3 4	Č	Ú	Ú	S	Σ	È	È	Et	۵	١ ۵	مُ الْمُ	5 6	Ä	ڐ	Ď	Σ	0	
	х	+	×		+	+	$\dashv$				+	+	+	+	-	+					+	+	+	+	-				$\dashv$			-	+	+	+					Globulin (Electrophoresis)
		+	+	,	(	+				H	+	+	+	+	-	+		+			+		+	+	-				$\dashv$			-	+	+	+				_	2-Microglobulin
		+	+	+	+	+	-				+	+	+	+	_						+	х	+	+	+				$\dashv$	Н		+	+	+	+				_	Agonists (Clenbuterol)
	H	+	+	+	+	+	$\dashv$				+	+	+	+	_						H		+	+	-				$\dashv$	Н		х	+	+	+					arbiturates
	H	-	+	+	+	+					+	+	+	+	_						+		+	+	-					Н		_	+	+	+					ASO-X
	H	+	+	+	+	+					+	+	+			+		+			+	+	+	+										+						ASO-Y
			-	+	+	-												1															1							asophils (BASO)
		-	+	1	1													1					H										1							asophils % (% BASO)
		+	-	+	+	1					I																								х					ath Salts 1
		-	+	1	1	1																													х					ath Salts 2
	L	_	$\perp$	_	_	4					1	4	4	4							-		-	+	-							х	4	+	1	_				enzodiazepines 1 + 2
		_	$\perp$	_	_	4					1	4	4	4		+		+			+		+	+					$\dashv$			х	+	+	-				Be	enzoylecgonine (Cocaine)
			$\perp$	1	1	4					L	4	4			1		1					_	1									_	1	х				Be	enzylpiperazines
	L		$\perp$			4					L	4	4	4										$\perp$									_	1					Bio	carbonate
			$\perp$	1	1	4					L	4	4	4				1					L	$\perp$									_	1					Bil	le Acids
																																						х	Bil	lirubin (Direct)
																																						х	Bil	lirubin (Total)
																																						х	Blo	ood
											П																												BN	NP
											П											х																	Во	oldenone
											П	Т		x																				Т					Во	orrelia burgdorferi IgG
											T	T		х							T													T					Во	orrelia burgdorferi IgM
											T																					x	х						Bu	uprenorphine
		T	$\top$	T	T	7					T	T									T							х						T					C-	-Peptide
			$^{\dagger}$			T					t	T	T											$\top$									$\top$	T						A 15-3
			$^{\dagger}$			T					t	T	T	$\top$										$\top$									$\top$	T					CA	A 19-9
			$^{\dagger}$	T	Ť	T					t	Ť	Ť			t		T			T													t						A 72-4
			$\top$	T	T	$\top$					t	Ť	T				T				T													T					C/	A 125
			$^{+}$			+					t	T	$^{\dagger}$	$\top$										$\top$	$\vdash$					x			$\top$	$^{\dagger}$						affeine
	H	$^{+}$		$^{+}$	$^{+}$	$^{\dagger}$				H	t	$^{+}$	$^{+}$			t		+			t		+											$^{+}$						alcitonin
		+	+	$^{\dagger}$	$^{\dagger}$	$^{\dagger}$					t	$^{+}$	$^{+}$			t					٢								$\exists$					$^{+}$		x	×			alcium
			+	+	+	+	$\dashv$				$^{+}$	+	+	+				+					+	+					$\dashv$	Н		x	+	+		Ĥ	<u> </u>		-	annabinoids
	$\vdash$	+	+	+	+	+	$\dashv$			H	$^{+}$	+	+										+	+					$\dashv$	х		^	+	+						arbamazepine
		+	+	+	+	+	$\dashv$			H	+	+	+	-	-	+		+		+	+	+	+	+	$\vdash$	x			$\dashv$	^		+	+	+	+					ЕА
			+	+	+	+	$\dashv$				+	+	+	+				+			x		+	+	$\vdash$	^			$\dashv$			+	+	+	+					eftiofur
			+	+	+	+	$\dashv$				+	+	+	+				+			^		+	+	$\vdash$				$\dashv$			+	+	+						eruloplasmin
		+	+	+	+	+	-				+	+	+								+		+	+					$\dashv$	Н			-	+						
				+	+	-					H																						)							hloral Hydrate Metabolite
					+	-					H										х												H							hloramphenicol
	х	+	х	-	+	+							-																							х	х			hloride
	$\vdash$	+	+	+	+	+	$\dashv$			H	+	+	+	+		)	-	+			+		+	+	$\vdash$				$\dashv$			+	+	+	+	$\vdash$				holesterol (HDL)
	H	+	+	+	+	+	-				+	+	+			)		+			+		+	+	-								-	+						holesterol (LDL)
		+	+	+	+	+				H	+	+	+	+	-	)	(	+			+		+	+	-				$\dashv$			-	+	+	+					holesterol (Total)
	H	+	+	+	+	1			H		H																													holinesterase
		+	+	+	-	+					+	+	+	+	_						H		+	+	-				$\dashv$	Н		_	+	+	+	_				K-MB
		-	-	1	1	-																																		K (Total)
		-	1	+	1	1																																		omplement C3
				1	1	1																																		omplement C4
				1	1													1																		х				opper
				1	1																	х																	Co	orticosteroids
																																				х	х		Co	ortisol
																								х				х											CF	RP
																																x :	x >	×		х	х	х	Cr	reatinine
																														х									Cy	yclosporine
	1	1													,	c																							0	
									L							`																							()	ytomegalovirus (CMV) IgG

Anticolidant Controls		Pag	e					_																																	
G CMRAZI Cystatric C D 2 Affricaylogyata Defined Defin	An	tioxidant Controls	80	8 8	8 8	80	11	14	14	15	12	8	19	20	77	22	23	23	24	24	24	25	25	26	29	29	32	32	32	33	36	36	37	37	38	39	39	40	40	43	43
G CMRAZI Cystatric C D 2 Affricaylogyata Defined Defin	Blo	ood Gas Controls	orato												ntrol																										
G CMRAZI Cystatric C D 2 Affricaylogyata Defined Defin	Ca	rdiac Controls	d Calik	ţo.	2 2							ontro	- 0	utrol	us Co																2	_									
G CMRAZI Cystatric C D 2 Affricaylogyata Defined Defin			trol an	Salibra	Cont							us C	Cont	S Co	um PI	rol	mnus						or				eries			rator	Cont	ontro			itrol	_	-				
G CMRAZI Cystatric C D 2 Affricaylogyata Defined Defin			Cont	and	sod)	ontrol					ator	m L	Plus	m Plu	remi	Cont	tor Se		rator			r	librat				tor S			Calib	ŒΨ	O E		ntrol	s Cor	ontro	Contr		_		
G CMRAZI Cystatric C D 2 Affricaylogyata Defined Defin	Co	entrols	Ransel	ontro	(Rar	us Co			trol		alibra	remi	mium	emin	stry F	ayed	librat	ntrol	Calib	-	E	ibrate	d Cal	_			alibra			and	ne (A	remi		S L	n Plu	ty C	ty =	-0	ontro	- 0	rator
Contractic C C C Contractic C C C C C C C C C C C C C C C C C C C			dase (F	Oase	utase	Stat	0.		Con	rol	o pue	stry P	/ Pre	try Pr	hemi	y Ass	Ca	S	and	Sontr	Seri	Cal Cal	rolan	ontro	trol	ntrol	nd C	ntro	_	ontro	ormo	say F		miur	miur	eciali	eciali	Cont	ing O	Cont	Calib
G CMRAZI Cystatric C D 2 Affricaylogyata Defined Defin			Peroxi	Reduc	Dism	xidan	Conti	ntrol	ardiac	Cont	ntrol	hemi	mistr	emis	yed C	mistr	emist	than	ontro	nidu	evate	rol an	Cont	ces C	n Cor	gy Co	trola	1c Co	ontro	ne Co	ian H	nnoa	-	ay Pr	ay Pr	ay Sp	ау Ѕр	ırker	creen	otein	otein
G CMRAZI Cystatric C D 2 Affricaylogyata Defined Defin		•	hione	hione	oxide	Antio	Gas	ac Co	vel C	nin T	ВСо	onois	Che	O pe	Assa	e Che	la Ch	onia E	ase C	A Bilin	oin El	Cont	mine	n Indi	ulatio	atolog	Con	HPA	DHO	osami	Müller	m m m	Contr	noass	noass	noass	noass	ur Ma	nal S	fic Pro	Specific Protein Calibrator
Destination	III		Glutat	Glutat	Super	Total	Blood	Cardi	Tri-Le	Tropo	C K-M	Precis	Liquic	Assay	Liquic	Bovin	Clinic	Amm	Aldol	Liquic	Billiru	Multi	Gluta	Serur	Coag	Haem	HbA1	Liquic	G-6-P	Fruct	Anti-l	Liquic	PTH (	lmmu	Immu	Immu	Immu	Tumo	Mater	Specific Protein Control	Speci
District	С		-	+	+						$\dashv$	4	_	4				_	_	_	+	+	+	Н				_	4	4	+	4	4		_			х	_	_	
Description	_		+	+	+					$\blacksquare$	+	+	_	+	+		_		_	_	+	+	+					$\dashv$	+		+	$\dashv$	4	_	-		_	$\dashv$	_	+	_
Decimination   Deci	D		+	+	+					$\dashv$	+	х	х	х	х	х	х	-	$\dashv$		+	+	+	Н				+	+	+	+	+	+		-		-	+	-	+	_
DEF X   DEFX   DEF X				+						$\exists$	$\dashv$	+		+					$\dashv$		+	+	+					+	+		+	+	+		-					+	H
DEF X   DEFX   DEF X				$^{+}$									x		х						+	+	$\vdash$					1	+		+	x		x	x						H
Digestin				T								T		T							$\top$	T				х		$\dashv$	7		$\top$	1									r
Digital   Digi																																									
Establishing SET (CS)  Establishing SET (CS)  Epidermal Crownth Faster (CIGT)  Epidermal Crownth Fa		Digoxin										х	х	х	х							T										х		х	х						ĺ
Ecoinophilis (EOS)		Dopamine																																							
Experimental Growth Factor (EGOT)   Epideminal Factor (EGOT)   Ep	Е	E-Selectin (E-SEL)									I		I								I																				
Episiolarus Growth Factor (EGF) Egispin/rivae Epistrio Barv Virus (EBV) EBNA IgG Eptstrio Barv Virus (EBV) YCA IgG Eptstrio Barv Virus (EBV) Y		Eosinophils (EOS)																								х															
Egistic Barv Visus (EBV) ESNA (gG Epistic Barv Visus (EBV) (SA) (gG Epistic Barv Visus (EBV) (SA) (gG Epistic Barv Visus (EBV) (SA) (gG Exitate) Barv Visus											1															х															
Peteriol Bur-Virus (EBV) CIPMA (30   1   1   1   1   1   1   1   1   1		Epidermal Growth Factor (EGF)		+	_					$\Box$	4	4		4	4						$\perp$	+	-					_	4		4	4	4					4			
Epstein Barr Virus (E8V) IgM  Epstein Barr Virus (E8V) IgA  Sex-late presented			+	$\perp$	+						_	4		_					_		+	$\perp$	╄					_	4		4	4	_					4	_	_	
Estation Barr Virus (E8ry) VCA (gG  Estation			-	+								+		4					4		+	+						_	4		+	4	4	_	_			4	_	_	_
Eschalgeram  Ethicol			+	+	+			H		$\dashv$	$\dashv$	+	+	+	+		-	-		_	+	+	+	Н				$\dashv$	+	4	+	+	+		-		-	$\dashv$	-	+	
Estrial  Ethanol  Eth			-	+	+					$\dashv$	$\dashv$	+	+	+	$\perp$	-	-	-	$\dashv$		+	+	+	Н				$\dashv$	$\dashv$	-	+	+	$\dashv$	$\dashv$	$\dashv$	-	-	$\dashv$	-	+	_
Ethanol Ethymistardiol Ethymistardio			-	+								+	_	+					-		+	+	-					$\dashv$	+	-	+	+	+	_	-			$\dashv$	-	+	_
Ethysical minima and a proper			+	+	+			Н		$\dashv$	-	+		+		_	+		$\dashv$		+	+	+	Н				+	+	+	+	×	+	X	X		+	+	-	+	-
Ethousimide Ethous				+				Н		$\equiv$		+	^		^			^	+		+	+		Н				$\dashv$	+		+	+								+	
Ethyl Glucuronide    Ethyl Glucuronide			+	+						$\exists$	$\dashv$	+		+					$\dashv$		+	+	+					+	$\dashv$		+	x	+	x	х				_		H
Factor VIII				$^{\dagger}$						$\exists$	$\dashv$										+	$^{+}$						$\dashv$	1		+	1						$\forall$			-
Factor VII	F			T																	$\top$	T			х			$\neg$			$\top$	1						Т			T
Factor VIII		Factor V		T										T								T			х				7		T	T									
Factor X Fac		Factor VII																							х																
Factor XI		Factor VIII																							х																
Factor XI		Factor IX		L																		L			х						_	_									
Factor XII		Factor X		L									_	4							_	╄			х				4		4	4						4	_		
Ferritin  Ferritin  Ferritin  Formany		Factor XI	-	$\perp$	-					$\Box$	_	4		4					4		+	$\perp$	-		х			4	4		$\perp$	4	4		4			4	_	_	
Ferritin  Fibringen  F				-							1										1				х							-						4			
Fibringen				+							-		-								+	-							-		-	+	-					-		+	
Fluoxetine Folate Folate Folate Folate Folate Folate Foreigne Fore				-	-						+	Х	Х		Х	+													-		+	х	+	х	х			Х		х	х
Folate Folate Fructosamine FSC.X FSH  G-A-PDH Y-Globulin (Electrophoresis) YGT  Gastrin  Gentamicin  Gestagens (Generic) GLDH Glucose Glutamine Gl				H			H	H	H	$\exists$	+										+	H	H	H	Х				1	+	+	+	+	1	-	-		+	-		E
Fructosamine FSC-X FSH  G-6-PDH  Y-Globulin (Electrophoresis) YGT  Gastrin  Gentamicin  Gestagens (Generic)  GLDH  Glucose  Glutamine  Glutamin				-			H				+	×	×	×	x						+			H					1		+	×		У	у						
FSC-X FSH											+	_	^	^	^															х	+	^		**	Α.						
FSH																										х						+									
Y-Globulin (Electrophoresis)         Image: Control of the contr													x		х																	х		х	х						ĺ
YGT  Gastrin  Gentamicin  Gestagens (Generic)  GLDH  Glucose  Glutamate  Glutamine  Glut	G	G-6-PDH																				T							х				1								ĺ
Gastrin		γ-Globulin (Electrophoresis)											х	х	х																										
Gentamicin		үдт										x	x	х	х	х	х				I																				
Gestagens (Generic)		Gastrin																				L															х				
GLDH Glucose Glutamate Glutamine Glutathione Peroxidase (Ransel) X X X X X X X X X X X X X X X X X X X											1	х	х	х	х																	х		х	х						
Glucase											1		1								1																	4		1	
Glutamate Glutamine Glutathione Peroxidase (Ransel)  Glutathione Reductase  X  Glycerol  X  X  X  X  X  X  X  X  X  X  X  X  X				-	-						_	$\rightarrow$	$\rightarrow$		_	$\rightarrow$						-										-	-					4			
Glutathione Peroxidase (Ransel) x Glutathione Reductase x Glycerol x x x x x x x x x x x x x x x x x x x				-			х				4	х	х	х	х	х	х				1	+	+					1	1		1	4	4	4				4		1	
Glutathione Peroxidase (Ransel) x Glutathione Reductase x Glycerol x x Glycerol				-							1		-									Х	+									-	-					4		-	
Glutathione Reductase x Glycerol x x				+							-										-	-	Х						-		-	+						-			
Glycerol x x x x x x x x x x x x x x x x x x x			X	+							+		+							+	+	-							-		+	+	+	-			-	+		+	
				X			H	H			+										-	H	H	H					-		+	+	+	-				+			
				H			H				+										X			H					1		+	1		1							f
Growth Hormone (GH)													×	+														+	+		+	×	+	y	у			+		+	

																																						_ P	age	
44	45	45	45	46	46	46	47	20	20	20	2	21	52	25	55	26	26	26	59	59	90	90	61-62	62	63	63-64	64	29	20	20	2 1	5 5	.   2	75	75	76	١,	0	Immunology/Protein Contro	ls
	1	1	7	4	7	4	7	ш,					ш,	ш,	ш,	ш,	ш,	ш,		ш,								Ť	1							1	ľ		Infectious Disease Contro	ls
(ntion)					or						ntrol										ator		Calibrator Series		or	ators				librato	brato	ibrato		IIDrate					(Serolog	y)
Pre-di					librat						i) Co				rator	ators	ator				Salibr		rator		librat	Calibr		rator		nd Ca	d Call	od Cal		DG Ca					Lipid Contro	ls
equires				orator	in Ca		Serie		rols	itrol	Jorfer				Calib	Calibr	Calibr				and (		Calil	-o	nd C	and		Calib	əţ	rtrols a	ols an	rols at		roisa					Speciality & Research Contro	ls
tor (R			rator	Calik	Prote		ator	slo	Cont	) Con	burgo				terol	and	and (	rator		- -	ntrol	-	s and	Cont	trol a	ntrols		rol &	rol Se	S Con	Contr	Cont		Con				_	Therapeutic Drug Contro	ls
alibra		_	Calib	and	dnid		Calibr	Contr	pike	(EBV	relia				holes	ntrol	ntrol	Calib	trols	Cont	ss Co	Contr	ntro	ıssay	Cont	e Co	s	Cont	Cont	y 1 Plu	ay II	ay III	;   >	ay v	0.			brato	Toxicology Contro	
in C.		ontro	nilno	ontro	li Li		and 0	N-2 (	V-2 §	/irus	(Bor	trols	s <sub>l</sub> o.		DL C	in Co	S) (S	and	Con	oter	lecule	3y    0	ay Co	ounu	roids	drom	rator	Orug	rator/	e Arra	se Arı	Se Arr		e Co	Cont	ntrol		=   		-
Prote	ntrol	SF C	roglo	C	globı	orato	ntro	3S-C	3S-C	Barr	sease	Cor	Conti	ntro	PL/H	prote	tein (	ntro	robial	Pron	n Mo	l Arr	e Arr	e Imn	c Ste	ic Sy	Calik	utic	Calib	Abus	Abu	Abu	2	Urir	Jrine	is Co	l.	nunc	Urine Contro	ls
Specific Protein Calibrator (Requires Pre-dilution)	CSF Control	Liquid CSF Control	3-2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator	IgE Calibrator	sTfR Control and Calibrator Series	Anti SARS-CoV-2 Controls	Anti SARS-CoV-2 Spike Controls	Epstein Barr Virus (EBV) Control	Lyme Disease (Borrelia burgdorferi) Control	Serology Controls	ToRCH Controls	Lipid Control	Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Array II Control	Cytokine Array Controls and	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators	Thyroid Calibrators	Therapeutic Drug Control & Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array 1 Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators		Assaved Urine Control	Liauid Urine Control	Urinalysis Control		Microalbumin Calibrator		
S	S	<u>ڙ</u>	β.	Ο	<u>=</u>	<u></u>	LS.	An	An	ם	Ç	Se	은	-5	۵	Ap	-5	SLI	An	ত্র	Αq	ů	Ο	Ē.	Sy	ž	논	上	畫	٥	ا ۵	בֿ בֿ		A	13	2	ļ:	Ξ	AVERA 44	
		+	$\vdash$		х	+	+																			-	х		$\dashv$		+		+		H		+	+	CYFRA 21 Cystatin C	С
		+	Н	H	^	$\top$	1																				^		$\exists$		$\top$		t		Н		t	+	D-3-Hydroxybutyrate	D
		T																					х										T		Г		T		D-dimer	
						_																											,	c					Dextromethorphan	
	+	+	Н		4	4	4																						$\dashv$			+	+	+	H		+	+	DHEA-Sulphate	
	+	+	Н	$\vdash$	+	+	+	_																$\dashv$		_		_	$\dashv$		+	+	+	+	H		+	+	DIFF-X	
		+	Н	$\vdash$	+	+	+																			=			х		+		+	+	H			+	DIFF-Y Digoxin	
		+	Н		+	$^{+}$	+																						^				$^{+}$		x		t	+	Dopamine	
																						х											T						E-Selectin (E-SEL)	Е
																																							Eosinophils (EOS)	
		-	Ш		4	4	_																						_		_		1	+	L		+	_	% Eosinophils (% EOS)	
	+	+	$\vdash$	$\vdash$	+	+	+																	х		_		$\dashv$	$\dashv$		+	+	+	+	H	-	+	+	Epidermal Growth Factor (EGF)	
		+	$\vdash$		+	+	+				x			х															$\dashv$				+		×		+		Epinephrine  Epstein Barr Virus (EBV) EBNA IgG	
			Н			+	$\forall$				x			x															$\dashv$		+		$^{+}$				t		Epstein Barr Virus (EBV) IgM	
		T	П								х		П	х																			T		Т		T		Epstein Barr Virus (EBV) VCA IgG	
																																	>	c					Escitalopram	
			Ш										Ш																				L	$\perp$	L		L		Estriol	
		-	Н				4																							х	_	_	+	+			-		Ethanol	
	+	+	$\vdash$	$\vdash$	+	+	$\dashv$																			х		_	$\dashv$		-	+	+	+	H		+	+	Ethinylestradiol	
		+	$\vdash$		+	+	+																			-			х			x	+		H		+		Ethosuximide Ethyl Glucuronide	
		+	$\vdash$	$\vdash$	+	+	+																						$\dashv$		+	^	$^{+}$		Н		t	+	Factor II	F
			П				$\exists$																										T		Г		T		Factor V	
																																							Factor VII	
		_	Ш		4	4	_																										Ļ		L		L	1	Factor VIII	
	+	$\vdash$	Н	$\vdash$	+	+	4																			_			$\dashv$		+	+	+	+	H	-	+	+	Factor IX	
		+	Н		+	+	+																			_		_	$\dashv$				+		H		+	+	Factor X	
	+	+	$\vdash$		+	+	+						Н											$\dashv$		-		$\dashv$	$\dashv$		+	+	+	+	$\vdash$		+	+	Factor XII	
		+	$\vdash$		+	+	$\dashv$																						$\exists$			хх	t		Н		t		Fentanyl	
																											х				$\top$		Ť				T		Ferritin	
																																							Fibrinogen	
		_	Ш			4	_																								4		)	c	L		1		Fluoxetine	
		+	Н	$\vdash$	_	4	4																						_		_	+	+	+	H	-	+	+	Folate	
		+	Н		+	+	+																			_			$\dashv$				+		H		+	+	Fructosamine	
	+	+	$\vdash$	$\vdash$	+	+	+						$\Box$											$\dashv$	х	_			$\dashv$		+	+	+	+	$\vdash$		+	+	FSC-X FSH	
		+	Н		1	1	+																		Α .				$\dashv$				t		Н		t	$^{+}$	G-6-PDH	G
	x	T	x		$\top$	T	$\forall$																										t		T	T	t	T	γ-Globulin (Electrophoresis)	
																																							γGT	
																																							Gastrin	
		-	Ш				_																						х		_	_	+	+			1		Gentamicin	
	-	-			+	1	4																			х							H				H		Gestagens (Generic)	
	-		-		+	+	-																										H		-		H		GLDH Glucose	
	х		х		+		+																										H		х	х	1		Glutamate	
							1																										H				f		Glutamine	
					1																												ĺ				T		Glutathione Peroxidase (Ransel)	
																																							Glutathione Reductase	
																																							Glycerol	
																								х													L	1	GM-CSF	
																																							Growth Hormone (GH)	

	Page																																					
Ant	ioxidant Controls	80	80	80	80	=	4	4	15	15	20 1	19	20	77	22	23	23	24	24	25	25	25	26	29	29	32	32	32	3 %	36	37	37	88	39	36	40	43	43
Bloo	od Gas Controls	orato												ntrol																								
Car	diac Controls	Glutathione Peroxidase (Ransel) Control and Calibrato	tor	rol						-	Precision Chemistry Premium Plus Control	<u>.</u> و	utro	Liquid Assayed Chemistry Premium Plus Control															- 5	_								
Clim	nical Chemistry Controls	trol an	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control							ŭ	Liquid Chemistry Premium Plus Control	S Co	um P	rol	erum						or				eries		not on dila	Anti-Millerian Hormone (AMH) Control	Liquid Immunoassay Premium Control			ıtrol	_	-			
	agulation & Haematology	) Cont	l and C	(post	ontrol					ator	E	Plus	밀	remi	Cont	tor Se		rator			or	librat				tor S		1100	ME	U W		Control	s Cor	ontro	Contr		_	
Cor	ntrols	Ransel	contro	e (Rar	us Co			tro		Salibr	rem.	mium .	emin	istry	ayed	libra	ntro	Calib	- 1		librat	nd Ca	_			alibra		Pag	η (Δ	remi		n Co	n Plu	ty I C	ty = 0	0	ontro	rator
	betes & Whole Blood htrols	dase (F	tase C	ıutase	t Stat	0		Con	ro_	and C	stry	/ Pre	try Pr	hemi	y Ass	Co L	8	and	Contr	5 -	d Cal	rol an	ontro	itrol	ntrol	nd C	ntro	10140	ormo	ssay F		emiur	emiur	eciali	eciali	Cont	Cont	Calib
	nunoassay Controls	Peroxi	Reduc	Dism	xidan	Contr	ntro	ardiac	Cont	ntrol .	hem!	mistr	emis	yed C	mistr	emist	than	ontro	ubin (	ontro	rol an	Cont	ces C	n Cor	gy Co	trola	10 C	ontro	H List	nnoa	-	ay Pr	ay Pr	ау Ѕр	ay Sp	rker	creen	otein
	nunology/Protein Controls	hione	hione	roxide	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	Troponin T Control	CK-MB Control and Calibrator	Sion C	Che	o o	AAssa	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Liquid Bilirubin Control	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	Serum Indices Control	Coagulation Control	atolo	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-o-PDH Control	Mille	l lm	PTH Control	Immunoassay Premium	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Maternal Screening Control Specific Protein Control	fic Pr
	iunology/Frotein Controls	Glutat	Glutat	Supe	Total	Blood	Card	Tri-Le	Tropo	CK-Z	Preci	Liquic	Assayed Chemistry Premium Plus Control	Liqui	Bovin	Clinic	Amm	Aldol	Liquid	B lyce	Multi	Gluta	Serur	Coag	Haematology Control	HPA1	Liquic	5 5	Anti-	Liquic	PTH (	Immu	lm mr	Immu	lm mr	Jumo	Mate	Specific Protein Calibrator
Н	Haematocrit (HCT)				_	4	4	4	_							4		4			╄				х	4		_		_					_	4		
	Haemoglobin (HGB)	L		$\dashv$	$\dashv$	4	+	+	+	+	+	_	+	_	_	+	4	4		+	╀			_	х	+	+	+	-	$\vdash$					4	$\perp$		
	Haemoglobin A2 (HbA2)		Н	$\dashv$	$\dashv$	+	+	+	+	+	+	+	+	$\perp$	+	+	+	$\dashv$		+	$\vdash$		-	$\dashv$	+	+	+	+	+	+			$\square$		+	+		
	Haemoglobin F (HbF) Haemoglobin S (HbS)		Н	$\dashv$	+	+	+	+	+	+	+	+	+	+	+	+	+	$\dashv$			+			-		+	+	+	+	+			Н		+	+		
	Haemoglobin (Total)		$\vdash$			+	+	+										1			+					х												
	Haemolysis (H)		Н			T	$\top$	$\top$	$\top$		T		T					$\top$			T		х			$\top$		T	T	T								
	Haemopioetic Progenitor Cell (HPC)																								х													
	Haloperidol										I						I			I																		
	Haptoglobin									3	к	x		х																							x	x
	HAV IgM						1				1						1									1		1								1		
	HbA1c				_	4	4	4	_		+		_			_		4			-					х	х	+		-					4	$\perp$		
	HBc IgM	_	Н	$\dashv$	$\dashv$	+	+	+	+	+	-	_		_		+	_	+	_	+	+				+	+	+	+	+	+			$\square$		+	+		
	HBsAg		Н	$\dashv$	$\dashv$	+	+	+	+	+	+		+			+	+	+			$\vdash$			$\dashv$		+	+	+		+			$\vdash$		+	+		
	hCG		Н	$\dashv$	$\dashv$	+	+	+	+	١,	x	x		х		+		+			$\vdash$					+	+	+		x		x	х		+	х		
	Free β-hCG		H			1	+	+			_	^		^				1			+					+				ļ^						_	x	
	Total β-hCG		Н				$\top$	$\top$	$\top$		T		T					$\top$			T					$\top$		T	T	T							х	
	HDL-3		П				T	T	T		T										T					T		T										
	Helicobacter pylori IgG																																					
	Herpes Simplex Virus 1 (HSV-1) IgG		Ш		_		4	4								4					L					4							Ш		$\perp$	$\perp$		
	Herpes Simplex Virus 1 (HSV-1) IgM	L	Ш		_	4	4	4	4		4	4	4	4	4	4	4	4		+	╄					4		+	-	+					4	$\perp$		
	Herpes Simplex Virus 2 (HSV-2) IgG	L		_	4	4	4	+	+	+	+	+	+	_	4	+	4	4		+	╀			_	_	4	+	+	-	$\vdash$			Ш		4	$\perp$		
	Herpes Simplex Virus 2 (HSV-2) IgM		Н	$\dashv$	-		-	+																	-	-							Н		+	+		
	HIV-1 P24Ag Homocysteine		Н	$\dashv$	+	+	+	х	+		+	+	+	+		+	+	$\dashv$			+			-		+	+	+	+	+			Н		+	+		
_	Ibuprofen		Н		$\dashv$	+	+	Î	+	+	$^{+}$		+			+		$\dashv$			$\vdash$					+	+	+		+			Н		+	+		
	Icterus (I)		Н				1	$^{+}$															х			1												
	IMIDC		П				T	T	T		T										T				х	T		T										
	IMIRF																								х													
	Immature Granulocytes (IG)					4	4	4	4		4	_	4					4			╄				х	4		1	L	_					$\perp$	4		
	% Immature Granulocytes (% IG)		Ш		_	4	4	$\perp$	4		+		4				4	4			╀			_	х	4		+		-					4	4		
	Immature Myeloid Information (IMI)		Н	$\dashv$	$\dashv$	-	$\dashv$	+	-	+	+					+		$\dashv$	_						х	-	+	+	-				$\vdash$		+	+		$\blacksquare$
	Immature Platelet Fraction (IPF)		Н	$\dashv$	$\dashv$	+	+	+	+	+	+	+	+	+	+	+	+	$\dashv$		+	+			$\dashv$	х	+	+	+	+	+			H		+	+		+
	Immunoglobulin A (IgA) High Sensitivity Immunoglobulin A (hslgA)						+			3	X :	X	х	х			+									+											х	x
	Immunoglobulin E (IgE)							+	1	,	x	x		х																x		x	х			+	x	
	Immunoglobulin G (IgG)		П				$\top$	$\top$		1	+	_	х	х				1			T					1		T									х	+
	High Sensitivity Immunoglobulin G (hslgG)																																					
	Immunoglobulin M (IgM)									1	к	x	x	х																							х	x
	High Sensitivity Immunoglobulin M (hslgM)						4	4										4			L					4										4		
	Inhibin A						4	4	4		4					4		4			L					4		1							4	)	х	
	Insulin	L	Н	_	$\dashv$	4	4	4	4	4	+		_			+		4	_		╀				-	4	+	+	-	х		х	х	х	+	$\perp$		$\perp$
	Insulin Like Growth Factor-1 (IGF-I)						1	1	+	+	+	+					1	-		+						1	-	+	-	-				х		+		
	Intercellular Adhesion Molecule-I (ICAM-I)						+	+	+		+	+	+		+		+	+		+						+		+								+		
	Interferon-γ (IFN-γ) Interleukin-Iα (IL-Iα)						+	+	+	+	+		+				+	+								+	+	+							+			
	Interleukin-1β (IL-1β)						+	+			+						1	+								+										+		
	Interleukin-2 (IL-2)																1									1										+		
	Interleukin-4 (IL-4)																																					
	Interleukin-5 (IL-5)																																					
	Interleukin-6 (IL-6)										I		1				1										I											
	Interleukin-8 (IL-8)																																			1		
	Interleukin-10 (IL-10)						1			1	1						1									1										4		
	Interleukin-15 (IL-15)																																					

							1	1																	١			4													Page
44		45	45	45	46	46	46	77	<b>1</b>	20	20	20	<u>ي</u>	5 E	2 2	25 55	23 23	26	56	26	59	29	909	909	61-62	62	63	63-64	64	67	20	20	20	7	_	72	75	75	26	9/	Immunology/Protein Contro
		1																																							Infectious Disease Contro
						_							trol	01									tor		Cytokine Array Controls and Calibrator Series		r	Metabolic Sydrome Controls and Calibrators				Drugs of Abuse Array 1 Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators					(Serolog
						orato							Con	5			tor	lors	l o				libra		ator		orato	alibra		tor		Cali	Calib	Calii	Cali	Calil					Lipid Contro
CRP Controls and Calibrator					tor	Immunoglobulin Liquid Protein Calibrator			S C		<u>s</u>	_	Lyme Disease (Borrelia buradorferi) Control	Leu			Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator				Adhesion Molecules Control and Calibrator		alibra		Synthetic Steroids Control and Calibrator	nd C		Therapeutic Drug Control & Calibrator		als and	and	s and	sand	sand					Speciality & Research Contro
Į.	5			or	Cystatin C Control and Calibrator	tein		Cinc Suctain Control Control Control	200		Anti SARS-CoV-2 Spike Controls	Epstein Barr Virus (EBV) Control	ador.	gaor			Ö	d Ca	d Cal	or			ol an		nd C	Evidence Immunoassay Control	and	ols ar		ő	Set	ontro	ntrols	ntro	ntro	ntro					
CRP Controls and Calibrator	5			$\beta$ -2-Microglobulin Calibrator	d Ca	d Pro		900	orato	Anti SARS-CoV-2 Controls	° C	S C	bur bur	ing r			ester	ol an	ol and	sLDL Control and Calibrator	S	ntrol	Contr	trol	ols a	y Co	ntrol	ontro		itrol	Ethanol Calibrator/Control Set	lus C	1 Co	0 =	ပို	°C >	-			tor	Therapeutic Drug Contro
Cal	5		-	Cali	ol an	igni		100		Con	Spik	S (EB	rrelic	Lien	S		Chole	ontri	ontro	Cali	ntrol	S.	les C	Con	ontr	assa	s Co	ne C	rs	S	J/Co	ау1Р	ray [	ray l	ray	ray	ontro	trol		libra	Toxicology Contro
sanc			Contr	bulin	ontr	ili		100	and	oV-2	oV-2	Virus	e (Bo	og) a	ntrol	Lois	PLO	in C	(a) C	and	S	note	lecu	ay II	ay C	nunc	eroid	dron	brato	Drug	rato	se Arr	Ise A	Ise A	lse A	ise A	ne C	S	ontro	n Ca	
ntrol		CSF Control	Liquid CSF Control	roglo	00	dola	løE Calibrator	40	ntrol	RS-C	RS-C	Barr	Seas	seas	Serology Controls	I inid Control		prote	tein	ontro	Antimicrobial Controls	Growth Promoter Control	M M	Cerebral Array II Control	e Arı	e Im	ic Ste	lic Sy	Thyroid Calibrators	utic	Calik	Abus	Abr	Abr	Abr	Abr	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Microalbumin Calibrator	Urine Contro
S		ပို	nid O	Mic	statir	nund	Cali	0		i SAI	ti SAI	tein	ne D	a   -	golo.	2 2	ect L	odilo	opro	L C	timic	owth	hesio	rebra	tokin	denc	thet	tabo	roid	erape	anol	igs of	lgs of	lo sgr	lgs of	lgs of	ayed	uid L	nalys	croal	
CR	5 6	CS	Li9	β-2	ζ̈	<u> </u>	9	, ř	2	Ani	Ani	Eps	1 7	Lyr	yer	2. 0		Ap	는 는	S.	Ani	ؿٙ	Ad	ů	ပ်	Evi	Syr	Σe	Th	ř	딾	Pr	D <sub>r</sub>	7	占	D <sub>r</sub>	Ass	Liq	P.	Σ	
	1	4				L	1	1	4	_		L	L	ļ	4	4		L							_								4	4	4	4					Haematocrit (HCT)
	$\perp$	4				L	+	+	$\perp$	4		L	+	+	+															4			_	4	4						Haemoglobin (HGB)
	+	4				_	_	+	4	4		L	$\perp$		+	+		-	-											$\dashv$	_	_	_	4	4	4					Haemoglobin A2 (HbA2)
	+	4						1	1	4		L	$\perp$		$\perp$	$\perp$		-	-											$\dashv$	_	_	_	4	4	4					Haemoglobin F (HbF)
	$\perp$	4	_			L	+	+	+	4		L	+	+	+	+			-											4	_		_	4	4	4					Haemoglobin S (HbS)
	+	4				L	1	1	1	_		L	L	1	+	+	-		L					_									4	4	4	4					Haemoglobin (Total)
	1	4				L	L	1	1	4		L	╀	ļ	4		-		L											4			_	4	4	_					Haemolysis (H)
	1	4				L	_	1	1	_		L	╄	1	1		-		L											_			_	4	4						Haemopioetic Progenitor Cell (HPC)
	1	4							1			L	L		4	4																	_		4	х					Haloperidol
																																									Haptoglobin
															)	c																									HAV IgM
																																									HbA1c
															)	c																									HBc IgM
															)	c																									HBeAg
															)	c																									HBsAg
	T								Τ				П																										х	х	hCG
	Τ	П						Τ	Т			П	П																												Free β-hCG
	T							Т	Т																																Total β-hCG
	T	$\top$						T	T				T								х																				HDL-3
	T	T				Т		T	T			П	T			x																									Helicobacter pylori IgG
	T							T	T				T	Ī		x																									Herpes Simplex Virus 1 (HSV-1) IgG
	T	$\top$				T		T	Ť	T			T	T		×																									Herpes Simplex Virus 1 (HSV-1) IgM
	Ť	$\top$				T	T	T	Ť	T		Т	T	T		×			H															T	T						Herpes Simplex Virus 2 (HSV-2) IgG
	Ť	$\top$				T	T	T	Ť	T		T	t	T		×														$\exists$				T	$\top$						Herpes Simplex Virus 2 (HSV-2) IgM
	t	T				T		t	Ť	T		T	t	T	)	_			T															T	T	T					HIV-1 P24Ag
	t	$\forall$				T		t	$^{\dagger}$	T		H	t		$^{\dagger}$																		$\dashv$	T	$\top$	$\dashv$					Homocysteine
	$^{\dagger}$	$\forall$				T		t	$^{\dagger}$	T			t	T	$^{+}$	$\top$		Т	H														$\dashv$	T	1	х					Ibuprofen
	$^{\dagger}$	$\top$						t	+	T			t												$\vdash$								$\dashv$		1						Icterus (I)
	Ť	$\top$				T		T	Ť	T		T	t	T					H															T	$\top$	$\exists$					IMIDC
	$^{\dagger}$	$\forall$				H		$^{\dagger}$	$^{\dagger}$	T			$^{+}$		+															$\exists$			$\dashv$	T	$\dashv$	$\dashv$					IMIRF
	$^{\dagger}$	$^{\dagger}$				H	$^{\dagger}$	$^{+}$	$^{\dagger}$	T		Н	$^{+}$	T																$\exists$			$\dashv$	T	$^{\dagger}$	$\dashv$					Immature Granulocytes (IG)
	$^{+}$	$^{\dagger}$				H	$^{+}$	$^{+}$	$^{\dagger}$	$\exists$		Н	$^{+}$	t					H											$\exists$	$\exists$			T	$^{\dagger}$						% Immature Granulocytes (% IG)
	+	+	_			$\vdash$	+	+	$^{+}$	$\exists$			+		+	+														$\dashv$	$\dashv$		$\dashv$	H	+	$\dashv$					Immature Myeloid Information (IMI)
	+	+	-			H		+	+	+		H	+		+	+	$\vdash$												Н	$\dashv$	$\dashv$		$\dashv$	H	$\dashv$	$\dashv$					Immature Platelet Fraction (IPF)
		+					x		+	1																															Immunoglobulin A (IgA)
	+	+		х			+^	+	+	-					H																			H							High Sensitivity Immunoglobulin A (hslgA)
		+		^				×	+	-																															Immunoglobulin E (IgE)
	1	x					х	+	+	-																															Immunoglobulin E (IgE)
	+,	^		x			+ x	-	1	-																															High Sensitivity Immunoglobulin G (hslgG)
	+	+	-	Х		⊢	+	+	+	$\dashv$		$\vdash$	+	+	+	+	+	+	$\vdash$					-	-					$\dashv$	$\dashv$		$\dashv$	+	+	$\dashv$	-				
	+	+	-			⊢	х	+	+	$\dashv$		⊢	+	+	+	+	+	+	$\vdash$					+	+					$\dashv$	$\dashv$		$\dashv$	+	+	+					Immunoglobulin M (IgM)
	+	+	_	х		$\vdash$	+	+	+	$\dashv$		┝	+	H	+	+	+	+						-	-					$\dashv$	$\dashv$		$\dashv$	+	+	+					High Sensitivity Immunoglobulin M (hslgM)
	+	+	-			$\vdash$	+	+	+	$\dashv$		┝	+	+	+	+		+	$\vdash$											$\dashv$	$\dashv$		$\dashv$	+	+	$\dashv$	-				Inhibin A
	+	+	_			H	+	+	+	$\dashv$		H	+	+	+	+	+	+	$\vdash$					-	-				х	$\dashv$	$\dashv$	-	-	+	+	+					Insulin
	1	1					-	1	1																																Insulin Like Growth Factor-1 (IGF-I)
								1	1															х																	Intercellular Adhesion Molecule-I (ICAM-I)
	1	1					-	-	1																	х															Interferon-γ (IFN-γ)
	1						1	1	1																	х			х												Interleukin-lα (IL-lα)
	1							1	1																	х															Interleukin-1β (IL-1β)
									1																	х															Interleukin-2 (IL-2)
																										х															Interleukin-4 (IL-4)
																										х															Interleukin-5 (IL-5)
																										х			х												Interleukin-6 (IL-6)
																										х															Interleukin-8 (IL-8)
							T	T																		х															
																										Α.															Interleukin-10 (IL-10)

		Page																																						
	Anti	oxidant Controls	80	88	80	80	11	14	4	15	15	18	19	20		22	23	23	24	24	24	22	25	70 70	29	29	32	32	32	33	36	36	37	37	88	39	9	40	43	43
	Bloc	od Gas Controls	brato												ontrol																									
	Car	diac Controls	d Cali	ttor	-c							Control	-0.	ntrol	us Co																<u>-0</u>	_								
			trol an	Salibra	Cont							Plus Co	Cont	Is Co	um Pl	rol	mn							5			Series			rator	Cont	ontro			itrol		5			
		ical Chemistry Controls gulation & Haematology	Cont	and C	(posi	ntrol					ator	ll m	Plus	m Plu	remi	Cont	or Se		rator				r :	Ibrat			tor S			Calib	ΨH	E C		ıtrol	Con	ontro		_		
	Con	gulation & Haematology itrols	ansel	ontrol	(Ran	us Co			trol		alibra	remir	nium	emini	stry P	ayed	librat	ıtrol	Calib	-	Ē		Calibrator	ਲ ਹ ਹ			alibra			and	ne (A	remi		Col	n Plus	2 2		ontro	-	rator
		oetes & Whole Blood strols	lase (F	ase C	utase	Statu	Ю		Con	<u> </u>	nd C	stry P	Prer	ry Pr	hemi	y Ass	ς Ca	Co	and	Contri	Ser		Cal	ol an	trol	ntrol	nd C	ntrol		ntrol	ormo	say P		minn	minn	eciali	Contr	ng C	Contr	Calib
_		nunoassay Controls	eroxic	educt	Dism	idant	Contr	ntrol	rdiac	Cont	trol a	hemis	nistry	emist	ved C	mistr	mist	thano	ntro	bin C	vatec	ontro	ol an	Contr	es C	°C °C	rol a	c Co	ontro	e Co	an H	ınoas	_	ıy Pre	ıy Pre	y Sp	rker (	reeni	te in (	tein (
		-	ione F	ione F	oxide	Antiox	Gas (	ပိ	e Ca	i.	3 Cor	on C	Cher	d Ch	Assay	Che	Che	nia E	se Co	Biliru	in Ele	ŏ !	Contr	nine	latior	atolog	Cont	HbA1	OH C	samir	lülleri	lm m	ontro	oass	oass	oass	r Ma	nal Sc	ic Pro	ic Pro
		nunology/Protein Controls	Glutathione Peroxidase (Ransel) Control and Calibrato	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	Troponin T Control	CK-MB Control and Calibrator	Precision Chemistry Premium	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	-	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Liquid Bilirubin Control	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutar	Coagulation Control	Haematology Control	HbA1c Control and Calibrator	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and Calibrator	Anti-Müllerian Hormone (AMH) Control	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator
	'	Iron	H	Н	-							х	x	x	x	x	x			+	+	+	+	+	+	+		Н	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+			+
		Iron (TIBC) Iron (UIBC)		H								x	x	х	х	х	х			+	+	+	+	+		+		Н				-	+	$\dashv$	$\dashv$	+				Н
	K	Kappa Light Chain		H								Â	^							$\dashv$		+	+	+		+					+								X	H
		Ketamine Metabolite																				$\top$	T	Ť		T														Т
		Ketones																																						
	L	L-Selectin (L-SEL)																		I																				
		Lactate					х					х	х	х	х	х	х					1	х																	
		Lactate Dehydrogenase (LDH)										х	х	х	х	х	х				1	1																		
		Lambda Light Chain																			-	+		+															X	_
		Lambda Light Chain (Free)										х	x							+	+	+	+	+	+	+		Н	-		-	-		-					х	+
		Leptin		H								^	^									+		+																H
		Leukocytes																				Ť	T	Ť		T														T
		Lipase										х	х	х	х	х	х																							
		Lipemia (L)																				1		)	c	L														L
		Lipoprotein (a)		Ш									х		х					4		4	4	+		L														L
		Lithium										х	х	х	х	х	х			_		+	+	+		+								_	_					+
		Luteinising Hormone (LH) Lymphocytes (LYMPH)	H	Н	-								х		х					+	+	+	+	+	+	+	H	Н	$\dashv$	$\dashv$	$\dashv$	х	$\dashv$	х	х	+	+			+
		% Lymphocytes (% LYMPH)		$\vdash$																+		+	+	+		x														
		Lysergic Acid Diethylamide (LSD)																				$^{+}$	+	$^{+}$																t
	М	Magnesium		П								х	х	х	х	х	х					$\top$	1	T		T														T
		Matrix Metalloproteinase-9 (MMP-9)																																						
		Measles IgG		Ш																4		4	4	1		L														L
		Mean Corpuscular Haemoglobin (MCH) Mean Corpuscular Haemoglobin																					+	+		x														
		Concentration (MCHC)  Mean Corpuscular Volume (MCV)		Н																+	+	+	+	+		×			$\dashv$		$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$					H
		Mean Platelet Volume (MPV)		$\Box$																		$^{\dagger}$	+	$^{\dagger}$		x														T
		Meprobamate																																						
		Meperidine		Ш																		1	4	1		L														L
		Mescaline																				1		1																1
		Metanephrine	L	H	-															+	+	+	+	+	+	+		Н	$\dashv$	_	$\dashv$	$\dashv$	-	-	-	+	+	-		+
		Methadone Methandriol																			+	+	+	+																-
		Methamphetamine																			1																			
		Methaqualone																																						
		Methotrexate																					I	I																
		Methylphenidate																						1																
		Methyltestosterone																				1		1																
		MDMA	H																		+	+	-	+									-	-	-					
		Microalbumin  Macrophage Inflammatory Protein-1α																			+	+		+																
		(MIP-1α)																			+	-	-	+																
		Monocytes (MONO)  Monocytes % (% MONO)																			+	+	+	+		x														H
		Monocyte Chemoattractant Protein-1																			+	+	+	+		×								+	+					
		(MCP-1) Mumps IgG																			+	+	+	+		-									-					
		Myoglobin							х			х	x		x						+	+	+	+																
	N	Nandrolone							Ť												1																			
		NEFA										×		х		х																								
		Neuron-Specific Enolase (NSE)																					T	T													х			
				1 T																																				
		Neutrophils (NEUT)																			+	4	_	+		x					_	_						-		+
		Neutrophils (NEUT)  Neutrophils % (% NEUT)  Neutrophil Gelatinase-associated																								x														

																							7		4													Page
44	45	45	45	46	46	46	47	20	20	20	2	23	52	22	22	26	29	26	26	26	9	9	61-62	70	63-64	64	29	9	70	9	7	F	72	ર	75	26	9/	Immunology/Protein Contro
																							es		0				ors	or's	ors	ors	ors					Infectious Disease Contro
CRP Controls and Calibrator					or						Lyme Disease (Borrelia burgdorferi) Control										ator		Calibrator Series	1	Metabolic Sydrome Controls and Calibrators				Drugs of Abuse Array 1 Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators					(Serolog
					ibrat						°C (				rator	ators	ator				alibr		rator	ibrat	Salibr		ator		nd Ca	Call	d Ca	g Ca	d Ca					Lipid Contro
				ator	Immunoglobulin Liquid Protein Calibrator		sTfR Control and Calibrator Series		slc	2	orferi				Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator				Adhesion Molecules Control and Calibrator		Calib	Synthetic Steroids Control and Calibrator	nd O		Therapeutic Drug Control & Calibrator	l	ols ar	ls and	ols an	ols an	olsan					Speciality & Research Contro
ator			tor	Cystatin C Control and Calibrator	ote ir		or S	S	Anti SARS-CoV-2 Spike Controls	Epstein Barr Virus (EBV) Control	ırgdo				rol	nd C	nd C	tor		_	trola		and	Synthetic Steroids Control and	rols		8 0	Ethanol Calibrator/Control Set	Contr	ontro	ontro	ontro	ontro					
CRP Controls and Calibrator			β-2-Microglobulin Calibrator	Opui	id Pr		librat	Anti SARS-CoV-2 Controls	ike O	BV) (	lia bu				leste	rol a	rola	sLDL Control and Calibrator	slo	Growth Promoter Control	Cont	Cerebral Array II Control	Cytokine Array Controls and	ay C	Cont		ontro	ontro	Plus	Ę.	E	2	>	- l	_		ator	Therapeutic Drug Contro
o pc		trol	ů i.	trol a	Liqu		d Ca	2 Co	2 Spi	us (E	orre	slo			Cho	Cont	Cont	od C	Antimicrobial Controls	er C	nles	<u></u>	Cont	loass ole	me (	tors	Si O	or/C	rray 1	Array	Array	Array	Array	Assayed Urine Control	Liquid Urine Control	0	Microalbumin Calibrator	Toxicology Contro
ols ar	_	Con	Indo	Cont	bulin	or	ol and	Co/-	CoV	r Vir	se (B	ontro	ıtrols	<u> </u> 0	HDL	tein (	(a)	ol an	al C	mot	lolec	rray	rray	teroi	ydro	librat	Dru	ibrat	use A	onse /	onse /	onse /	onse /	rine	ပိ	ontr	in C	Urine Contro
ontro	CSF Control	Liquid CSF Control	crog	D ii.	oglo	IgE Calibrator	ontro	ARS-	ARS-	n Bar	Disea	Serology Controls	ToRCH Controls	Lipid Control	LDL	obro	otein	Contr	crob	h Pro	Non N	ral A	ne A	Ce II	olic	Thyroid Calibrators	eutic	Cal	of Ab	of Ak	of Ak	of Ak	of Ak	اِ دَ	Uri	Urinalysis Control	Ilbun	
RP C	SF C	duid	2-Mi	ystat	nmu	E Ca	fR C	nti S,	nti S	ostei	,me	erolo	RC.	pid 0	irect	polip	popr	DL (	ntimi	rowt	dhes	ereb	ytok	naeu	etab	yroi	herak	hand	rugs c	rugs	rugs	rugs	rugs	ssaye	quid	rinal	icro	
O	O	) =	8	O	드	_00	-S	Ø	4	ш	1 2	Š	ıř	اتا		4	5	ls	⋖	U	Ø	0	O L	i v	ე ≥	F	F	面						∢	-	⊃	Σ	
		+	+							$\vdash$	+											+	+	+	+	+	$\vdash$				+	+	+	+	$\dashv$			Iron
	H	+	+							$\vdash$		$\vdash$										+	+	+	+	+	$\vdash$	$\vdash$			+	+	+	+	$\dashv$			Iron (TIBC) Iron (UIBC)
	H	+	+							H	+	$\vdash$										+	+	+	+	+	H			$\dashv$	+	+	+	+	$\dashv$	_		
		+	+	Н						H									_			+	+	+	+	+	H	$\vdash$			x	x	+	+	$\dashv$			Kappa Light Chain  Ketamine Metabolite
		+	+							$\vdash$	+	$\vdash$										+	+	+	+	+	$\vdash$				X	×	+	+	$\dashv$		x	Ketones
	H	+	+			Н				H	+	$\vdash$							=			х	+	+	+	+	H			$\dashv$	+	+	+	+	$\dashv$	-	X	L-Selectin (L-SEL)
	l	+	+							$\vdash$		$\vdash$										×	+	+	+	+	$\vdash$	$\vdash$			+	+	+	+	$\dashv$			
	х		х								H												+	H	H	H	F				H		1					Lactate Dehydrogenase (LDH)
											H												+				H				H		1					Lactate Dehydrogenase (LDH)
																							+										-					Lambda Light Chain  Lambda Light Chain (Free)
		+	+							$\vdash$	+	$\vdash$							=		$\vdash$	+	+	+	+	+					+	+	+	+	$\dashv$			LAP
			+	$\Box$																		-		+	+	+					+	+	+	+	$\dashv$			
			+	H							+								=			+		+	+	х					+	+	+	+	$\dashv$			Leptin
		+	+																_			+	+	+	+	+					+	+	-	+	-		х	Leukocytes
	H	+	+							$\vdash$	$\vdash$	$\vdash$							_			+	+	+	+	+	H	$\vdash$			+	+	+	+	$\dashv$			Lipase
	H	+	+								+											+	+	+	+	+	H	$\vdash$		$\vdash$	+	+	+	+	$\dashv$			Lipemia (L)
		+	+								+	H			х		х					+	+	+	+	+	H	$\vdash$		$\blacksquare$	+	+	+	$\dashv$	$\dashv$			Lipoprotein (a)
		+	+								+											+	+	+	+	+	-	Х			+	+	+	+	$\dashv$			Lithium
	H	+	+							₽	+	$\vdash$							_		$\vdash$	+	+	Х	-	+	┝	$\vdash$		$\blacksquare$	+	+	+	+	$\dashv$	-		Luteinising Hormone (LH)
	H	+	+							₽	+	$\vdash$							_		$\vdash$	+	+	+	+	+	$\vdash$				+	+	+	+	$\dashv$	-		Lymphocytes (LYMPH)
	H	+	+							┝	-	$\vdash$							_			+	+	+	+	+					+	+	+	+	$\dashv$	-		% Lymphocytes (% LYMPH)
		+	+	Н		Н				H	+	$\vdash$							_		$\vdash$	+	+	+	+	+	H	$\vdash$	Н	$\dashv$	х	+	+	$\dashv$	$\dashv$			Lysergic Acid Diethylamide (LSD)
		+	+																			+	+	+	+	+	-	-			+	+		+	х	х		Magnesium
		+	-							H	+								_			+	,	c	+	+		$\vdash$			+	+	-	+	$\dashv$			Matrix Metalloproteinase-9 (MMP-9)
	H	+	+								+			х								+	+	+	+	+	$\vdash$	$\vdash$			+	+	+	+	$\dashv$			Measles IgG
		+	+								+	H										+	+	+	+	+	H	$\vdash$		$\blacksquare$	+	+	+	$\dashv$	$\dashv$			Mean Corpuscular Haemoglobin (MCH)  Mean Corpuscular Haemoglobin
		$\perp$																				4	4	$\perp$	$\perp$	_							4		_			Concentration (MCHC)
		$\perp$	_							L	_	L										4	4	$\perp$	_	_	L					4	4		_			Mean Corpuscular Volume (MCV)
		$\perp$																				4	1	$\perp$	1								4					Mean Platelet Volume (MPV)
	L									L		L											4	1			L				4	х			_			Meprobamate
										L		L											1	1			L				4	х						Meperidine
																						4	1	1	_	_	L				4	4	4	х	_			Mescaline
		1																				4	1	$\perp$	1	_	L				4		4		х			Metanephrine
																						1								х								Methadone
																							1		х													Methandriol
																							1							х								Methamphetamine
																							1								х							Methaqualone
		_	_							L		L										4	4	+	_	_		х			4	4			_			Methotrexate
		$\perp$																				4	1	$\perp$	1								х		_			Methylphenidate
										L		L											1	1	x		L				4	4						Methyltestosterone
		_	_							L	╄	L										4	1	+	+	_		_		х	х	4	4	4				MDMA
		_	х							L		L										4	4	+	+	_		_			4	4	_	4	х	х		x Microalbumin
																							,															Macrophage Inflammatory Protein-1α (MIP-1α)
																																						Monocytes (MONO)
																																						Monocytes % (% MONO)
																							,															Monocyte Chemoattractant Protein-1
			-											x									Ŧ										-		-			(MCP-1) Mumps IgG
														Х									+															Myoglobin Myoglobin
$\vdash$		+		H																		+	+	+								1	-					
																					х		+															Nandrolone
		-																					+		+								-					NEFA
		-																					x										-					Neuron-Specific Enolase (NSE)
	1																																					Neutrophils (NEUT)
																																						No. 100 AND OCCUPATION
		L																				_		+								1						Neutrophils % (% NEUT)  Neutrophil Gelatinase-associated Lipo-

٩nt	ioxidant Controls	80	80	80	80	=	14	14	15	12	2	19	50	2	22	23	5 2	24	24	24	2 2	25	26	29	29	32	32	32	33	36	36	37	37	88	39	39	40	40	43
Bloc	od Gas Controls	ato																																T		T	T		T
		Calibr	r	_						-	Control	_	0.	Col																_									
Car	diac Controls	and	ibrato	ontro							S	ontro	Cont	n Plus	_	Ę										ies			tor	ontro	ıtrol			0					
Clin	ical Chemistry Controls	ontro	nd Cal	d) C	-01					<u>ا</u>	Plus	us C	Plus	mim	ontro	. Serum		tor				rator				r Ser			Calibrator	Û	Co		-0	Contr	ıtrol	ntrol			
Coa	gulation & Haematology	sel) C	trol ar	Ransc	Cont			_		brate	miu	E I	uiu.	y Pre	o p	rator	0 :	libra			1040	Calib				orato			nd C	ΑM	miun		Cont	olus (	Co	ပ္ခို	7	trol	
	ntrols petes & Whole Blood	(Ran	Cont	ıse (R	atus			ontro		Cali	/ Pre	emir	Pren	mistr	ssaye	Calib	ontr	ပ္ခံြ	trol	erum	rdile	and (	rol	_	0	Calik	0		rol ar	none	/ Pre		un.	m F	ality	ality	ntrol	Con	Specific Protein Control
	ntrols	xidase	ıctase	muta	int St	ıtrol	-	ac C	ntrol	and	nistr)	try Pr	istry	Che	try A	stry	0 .	lo.	0 :	ed v	101	lortrol	Cont	ontro	Contr	and	Contr	<u></u>	Cont	Horr	assa		remi	remi	peci	peci	Ö.	guing	3
mn	nunoassay Controls	e Pero	e Redu	e Dis	oxida	Cor	ontr	Cardi	ပိ	ontro	Cher	emis	Shem	ayed	emis	hemi	Etha	Conti	rubir	levat	Cont	S	lices	on C	ogy (	ntro	A1c 0	Cont	nine (	ərian	munc	-01	ssay	ssay	ssay S	ssay §	larke	Scree	rote
mn	nunology/Protein Controls	Glutathione Peroxidase (Ransel) Control and Calibrato	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	Troponin T Control	CK-MB Control and Calibrator	Precision Chemistry Premium Plus	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator	Ammonia Ethanol Control	Aldolase Control and Calibrator	Liquid Bilirubin Control	Bilirubin Elevated Serum	Glycerol Control Multi Control and Calibrator	Glutamine Control and Calibrator	Serum Indices Control	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and	Anti-Müllerian Hormone (AMH) Control	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Maternal Screening Control	Specific Protein Control
N	Nitrite	O	G	S	ř	В	0	F	F	0			∢ .	_	Δ.	0 .	∢ .	∢ .	_	Δ (	5   ≥	. 0	S	0	I	I	_	0	Œ.	∢	_	Δ.	느	느	느	느	F   2	2 0	0
	Norepinephrine																																						
	Normetanephrine																																						
	NT-proBNP						х										1	4																			4		
	Nucleated Red Blood Cells (NRBC)									4	4	4		4			4	4		4					х									_			4		
	Nucleated Red Blood Cells % (% NRBC)																								х														
	Nucleated Red Blood Cells X (NRBC-X)																								х														
	Nucleated Red Blood Cells Y (NRBC-Y)																								х														
0	Oestradiol																														х		х	х					
	Opiates									1									1																		1		
	Osmolality									1	х	х	x	x	х	х	1	1	1	1	1													4	4		4	1	
	Osteocalcin									4							1	1	1	1													_		х		4		
	Oxalate								-	_	+	4		_	-		+	+		+									_	-		_	4	$\dashv$	4	4	+		$\perp$
_	Oxycodone (I+II)								$\dashv$	+	+	+	+	+	+		+	+	+	+	+	+					-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	+	+	-	$\dashv$
Р	P-Selectin (P-SEL)								-		+	+		+			+	+	+	+										-		+	+	$\dashv$	+	+	+		H
	Paracetamol PAPP-A								$\dashv$	+	x	х	x	х			+	+	+	+	+									$\dashv$	х	+	х	х	+	+	+	x	-
	pCO <sub>2</sub>					х				-	+	+		+			+	+										-	-	+	-	+	+		+		,		H
	pH					x				+							+	+										-				-					+		+
	Phencyclidine					^				+	+						+	+			+											+					+		+
	Phenobarbitone										x	х		x			$^{+}$	$^{+}$		$^{+}$								_		7	х	+	х	х			+		H
	Phenylpiperazines									$\top$											+																$\top$		T
	Phenytoin										х	х		х																	х		х	x	Т		T		
	Phosphate (Inorganic)										x	х	x	х	х	х																							
	Plasminogen																							х															
	Plasminogen Activator Inhibitor																																						
	Platelet Distribution Width (PDW)																								х														
	Platelet Large Cell Ratio (P-LCR)																								х														
	Plateletcrit (PCT)																								х														
	Platelet (PLT)																								х														
	Platelet Optical Count (PLT-O)																								х														
	pO <sub>2</sub>					х																																	
	Potassium					х					х	х	х	х	х	х																							
	Prealbumin										х	х		х																								х	c
	Primidone																														х		х	х					
	Procalcitonin																																		х	х			
	Progesterone											х		х																	х		х	х					
	Prolactin										х	х		х																	х		х	х					
	Propoxyphene																																						
	Protein C																							х															
	Protein S																							х															
	Protein (Total)										x	х	х	x	х	x																						х	c
	Prothrombin Time (PT)																							х															
	PSA (Free)																														х		х	x			x		
	PSA (Total)										x		x >	(	х																х		х	х			х		
	PTH (Parathyroid Hormone)															T																	х	х					ĺ
	PTH (Intact)																															х			х				
Q	Quinolones (Generic)																																						ĺ
R	Ractopamine																																						ĺ
	Red Blood Cell Y (RBC-Y)																T								х														
	Red Blood Cell Distribution Width CV																	1		T	T				x									$\top$	T		+		
	(RDW-CV)																																						

																											4									1			Pa	age	
4 2	1	45	45	45	46	46	46	47	20	20	2 2	2 1	ਹ	2	52	S F	56	26	56	59	59	909	90	61-62	62	63	63-64	64	67	2	2	2 i	5 5	-   -	7 12	75	92	76		Immunology/Protein Contro	ls
	T																																							Infectious Disease Contro	ls
(uoin						r							ıtrol									ator		Serie		-C	ators				ibrato	orato	bratc	ומומור	Drate					(Serolog)	
Pre-dil						ibrate						9	Š C			40	ators	tor				alibr		rator		ibrat	alibr		ator		nd Ca	Cali	d Cal		a Ca					Lipid Contro	ls
quires					ator	L Cal		eries		slo	-	ē ,	orferi			4:10	alibra	alibra				Opu		Calib	-	d Cal	o pur		alibr		rols ar	ls and	ols an	lls all	oisan					Speciality & Research Contro	ls
or (Rec	ator			ator	alibr	roteir		tor S	<u></u>	Sontr	3	Cont	urgdo			100	D bu	nd C	tor		_	trol a		and (	ontro	ol and	rols		8 8	ol Set	Cont	ontro	ontro		ontro					Therapeutic Drug Contro	de
Specific Protein Calibrator (Requires Pre-dilution)	allDr			$\beta$ -2-Microglobulin Calibrator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator		sTfR Control and Calibrator Series	Anti SARS-CoV-2 Controls	Anti SARS-CoV-2 Spike Controls	Cutaco O (Van)	( A G :	Lyme Disease (Borrelia burgdorferi) Control			Direct I DI /HDI Choloctorol Collibrator	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	sLDL Control and Calibrator	slo	Growth Promoter Control	Adhesion Molecules Control and Calibrator	Cerebral Array II Control	Cytokine Array Controls and Calibrator Series	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators		Therapeutic Drug Control & Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array 1 Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	2 2	Drugs of Abuse Array v Controls and Calibrators  Assaved Urine Control			ator			
Cali	5		trol	lin C	trol a	Liq.		d Ca	-2 Cc	-2 Sp		J Sn.	Sorre	ols	S	3	Con	Cont	l C	ontro	er C	cules	ပိ =	Con	noass	ids C	ome (	tors	ng C	tor/C	ıray	Arra	Array	γ   α	Arra)	ontro	- 2	Salibr		Toxicology Contro	ls
otein	ols a	0	Sor	ndol	Con	bulir	ttor	ol an	Co.	S,			ase (I	Sontr	ntro		tein	n (a)	rola	oial C	omo	Molec	ırray	Array	mmm	Stero	Sydr	alibra	ic Dr	libra	onse A	buse	buse	Dana Dana	buse	Oe	Cont	nin		Urine Contro	ls
fic Pr	200	CSF Control	Liquid CSF Control	licrog	tin C	nogle	IgE Calibrator	Conti	SARS	ARS	9	In ba	Dise	Serology Controls	ToRCH Controls		popre	rotei	Cont	Antimicrobial Controls	th Pr	sion I	oral A	ine /	nce I	etic 3	oolic	Thyroid Calibrators	peut	ol Ca	of Ak	of A	of A	5 4	Assaved Urine Control	Liauid Urine Control	Urinalysis Control	Microalbumin Calibrator			
peci	L L	SF	-iquic	3-2-M	Cysta	mmu	gE C	TfR (	Anti S	Anti S	1	pste	-yme	serol	lo RC	pidi-	Apoli	dodi.	- 1	Antim	Grow	Adhe	Cerel	Cytol	ivide	synth	Metal	Thyro	Thera	than	Orugs	Orugs	Jrugs	S Ings	Jegay	ioni	Jrina	Micro			
0, 0			_			_	_	US .	_		1		_	0,				1-	05	1	Ü					0,	_										1	×		Nitrite	N
	Ť	$\top$									t	T	T	Ť				T																Ť		х		T		Norepinephrine	
	Ť	T									Т																							T		х			T	Normetanephrine	
	T										Т																													NT-proBNP	
																																								Nucleated Red Blood Cells (NRBC)	
																																								Nucleated Red Blood Cells % (% NRBC)	
	Ť	T									T	T																						T	T	Т	T			Nucleated Red Blood Cells X (NRBC-X)	
																																								Nucleated Red Blood Cells Y (NRBC-Y)	
																										х													Γ	Oestradiol	0
	I																															х	х							Opiates	
																																				х	х			Osmolality	
	1	_									L																													Osteocalcin	
	1	4									1		4	4	4	1																	+	1	+	х	_			Oxalate	
	+	4	_								+	4	4	4		+		-											_	_	4	-	х	+	+	L	-	L	-	Oxycodone (I+II)	
	+	+	$\dashv$								+	+	4	+	4	+	-	-					х				_		$\dashv$	_	4	4	+	+	+	H	+	L	+	P-Selectin (P-SEL)	Р
	+	+	-								+	+	+	+	+	+											-		$\dashv$	х	+	+	+	)	(	-	+		+	Paracetamol	
	+	+	$\dashv$								+	+	+	+	-												$\dashv$		$\dashv$	-	-		+	+	+					PAPP-A	
	+	+									+																		$\dashv$		+		+	+	+		1	x		pCO <sub>2</sub>	
	+	+									+	H	+	+															$\dashv$	-	+	х	+	+	+		x	×		Phencyclidine	
	$^{+}$	+	$\dashv$								+	t	+																$\dashv$	х	+	^		$^{+}$		$\vdash$				Phenobarbitone	
	$^{+}$	$\forall$									$^{+}$	T	$^{+}$	$^{+}$															$\dashv$				+	t	X		+		$^{\dagger}$	Phenylpiperazines	
	$^{\dagger}$	1									t																			х			$^{+}$		$^{+}$			T		Phenytoin	
	T	$\forall$									T																						$\top$	T	T	х	x			Phosphate (Inorganic)	
	Ť	T									Т	T																						T	T				T	Plasminogen	
																												х												Plasminogen Activator Inhibitor	
																																								Platelet Distribution Width (PDW)	
																																								Platelet Large Cell Ratio (P-LCR)	
	1										L																													Plateletcrit (PCT)	
	1	_									L																													Platelet (PLT)	
	1	4									L			4																				L						Platelet Optical Count (PLT-O)	
	1	4									L																				_		4	1	4		1			pO <sub>2</sub>	
	1	4									╀	1	4	4		L																	1	1	1	х	х			Potassium	
	4	4									1	4	4	4	4	1													4			_	+	1	+		1			Prealbumin	
	4	4									1	1		_	4	-														х	4	4	+	1	+		1			Primidone	
	4	4									+	4			4	_													4		4	4	$\perp$	+	+		-		-	Procalcitonin	
	1	4									╀	+	4	4		+										х					4	_	$\perp$	+	$\perp$	L	-		-	Progesterone	
	4	4									+	4	4	4		+										х			4		4		$\perp$	+	+		-		-	Prolactin	
	+	4									+	4	4	4		+		-											4		4		х	+	+		-		-	Propoxyphene	
	+	4									+	+			+	+													4		4	_	+	+	+	-	+		-	Protein C	
	+	+									╀	+	+	+	+	+		-											$\dashv$		4		+	+	+		-		-	Protein S	
	+	х	_	х							+	+	4	+	+	+		-											4	_	4	4	+	+	+	х	х	х	+	Protein (Total)	
	+	+	$\dashv$								+	+	+	+	4	+	-	+									_		$\dashv$	_	4	_	+	+	+	H	+	L	+	Prothrombin Time (PT)	
	1	1									H															х													H	PSA (Free)	
	1	1																								х														PSA (Total)	
	-	4																																					H	PTH (Parathyroid Hormone)	
	1	4																																					F	PTH (Intact)	
	+	-																			х																		H	Quinolones (Generic)	Q
	1	1																			H	х											1			H			H	Ractopamine	R
	+	+																														-		H					H	Red Blood Cell Y (RBC-Y)	
																																								Red Blood Cell Distribution Width CV (RDW-CV)	
	-	_																											_	_										Red Blood Cell Distribution Width SD	

		Page																									_														
А	nti	oxidant Controls	80	80	80	80	11	14	14	15	15	9	19	20	73	22	23	23	24	24	54	22	25 25	26	29	29	32	32	32	33	36	36	37	37	88	39	39	40	40	43	43
В	loc	d Gas Controls	orato												ntrol																										
_ c	ar	diac Controls	d Calik	tor	rol							Plus Control	- 0	ntrol	us Co																- 2	_									
		ical Chemistry Controls	trol an	Calibra	Cont							Ins C	Cont	ls Co	um Pl	-lo	mna							5			eries			Calibrator	Cont	ontro			ıtrol	_	0				
		gulation & Haematology	Cont	and C	(post	ontrol					ator	E I	Plus	m Plu	remi	Cont	tor Se		rator				or Librar	1010			tor S			Calib	ŒΨ	C m		Control	s Cor	ontro	Contr		_		
C	on	trols	Ransel	contro	e (Rar	us Co			trol		Salibr	remi	mium	emin	istry F	ayed	libra	ntrol	Calib	-0	E		librat	2 -			alibra			and	ne (A	remi		S C	n Plu	ty I C	ty	-0	ontro	-01	rator
		etes & Whole Blood trols	dase (F	tase C	ntase	Stat	0		Con	rol	and C	stry P	/ Pre	try Pr	hemi	y Ass	C3	S	and	Contr	Seri	_	d Cal	ontro	trol	ntrol	nd C	ntro	_	ontro	ormo	say F		miur	miur	eciali	eciali	Cont	ing C	Cont	Calib
		unoassay Controls	Peroxic	Seduci	Dism	cidant	Contr	ntrol	ardiac	Cont	ıtrol ;	hemi	mistr)	emis	yed C	mistr	emist	thand	ontro	nigir (	evated	ontro	ol an	Ses C	Con	gy Co	trol a	1c Co	ontro	ne Co	ian H	unoas	_	ay Pre	ay Pre	ау Ѕр	ay Sp	rker	reen	otein	otein
		•	hione	hione	oxide	Antio	Gas	ac Co	vel C	nin T	ВСо	onoi	Che	ed C	Assa	Che	al Ch	onia E	ase C	Bilin	oin El	0	Cont	o Indi	ulation	atolog	Con	HPA	DHO	osami	4üller	m	Sontr	noass	noass	noass	noass	ur Ma	nal S	fic Pro	fic Pro
ır	nm	unology/Protein Controls	Glutathione Peroxidase (Ransel) Control and Calibrato	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	Troponin T Control	CK-MB Control and Calibrator	Precision Chemistry Premium	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Liquid Bilirubin Control	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Serum Indices Control	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	Liquid HbA1c Control	G-6-PDH Control	Fructosamine Control and	Anti-Müllerian Hormone (AMH) Control	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator
	R	Renin								Ш	4	4	4	4	_			_		4	4	4	_	+				4		4	4				_		х	4	_		
		Resistin	L	L						Н	4	4	$\perp$	4	4	_	_	4		4	+	+	+	+				4	4	4	4	$\dashv$	_		4			4	4	_	
		Retinol Binding Protein (RBP)	H	$\vdash$		$\vdash$	_			Н	+	+	+	+	-	_	-	$\dashv$		+	+	+	+	+				$\dashv$	$\dashv$	$\dashv$	+	$\dashv$	-	_	$\dashv$			+		х	
		Rheumatoid Factor (RF)  Rubella IgG								Н	+	+	+	+						+	+	+		+				+	+	$\dashv$	+	$\dashv$			$\dashv$			+	+	х	Х
		Rubella IgM								Н	+	+	+							+		+		+				+	$\dashv$	$\dashv$	+	$\dashv$						+		$\dashv$	
_	S	Salicylate								H	+	х	x	x	×	_		+		$\dashv$	+	+		+				$\dashv$	$\dashv$	$\dashv$	+	х		х	x			+		Н	
		Salicyluric Acid									+																														
		Salvinorin								H												+							1			1									
		Semicarbazine (SEM)																																							
		Sertraline										1																													
		Sex Hormone Binding Globulin (SHBG)																														х		х	х						
		sLDL								П	T	T										T		T								T									
		Sodium					x			П	T	x	х	х	x	х	х			7		$\top$		T				$\top$			7	$\exists$						T			
		Soluble IL-2 Receptor α (sIL-2Rα)		T						П	T	$\top$	T							$\top$		$\top$		T				$\top$			T	$\exists$			T			T	T	П	
		Soluble IL-6 Receptor (sIL-6R)								П	1		1									$\top$		$^{\dagger}$					$\exists$		1	$\exists$									
		Soluble Transferrin Receptor (sTfR)								П	1	T	T							1		T		T														T			
		Soluble Tumour Necrosis Factor								П	1	T	T							7		$\top$		T				$\top$			7	$\exists$						T			
		Receptor 1 (sTNFR I) Soluble Tumour Necrosis Factor								Н	+	+	+							+		+						+	$\dashv$	+	+	$\dashv$						+			
		Receptor 11 (sTNFR I1)								Н	+	+	+	_				-		+	+	+	+	+				$\dashv$	$\dashv$	+	+	$\dashv$			$\dashv$			+	-	$\vdash$	
		Specific Gravity	H				-			Н	+	+	+	+	-			-		+	+	+	+	+				+	$\dashv$	$\dashv$	+	$\dashv$	-		$\dashv$	$\vdash$		+	$\dashv$	$\dashv$	
		Stanozolol	$\vdash$	$\vdash$						Н	+	+	+	$\dashv$	+	_	+	$\dashv$		$\dashv$	+	+	+	+				$\dashv$	$\dashv$	$\dashv$	+	$\dashv$	$\dashv$		$\dashv$			$\dashv$	$\dashv$	$\dashv$	
		Stilbenes	H	$\vdash$		$\vdash$	-			Н	+	+	+	$\dashv$	+	-	+	$\dashv$		+	+	+	+	+				+	$\dashv$	$\dashv$	+	$\dashv$	$\dashv$		$\dashv$		-	+	$\dashv$	$\dashv$	
		Streptomycin								Н	+	+	+	+	+			$\dashv$		+	+	+	+	+				+	$\dashv$	+	+	$\dashv$	-					+	+	$\dashv$	
		Superoxide Dismutase (Ransod)  Synthetic Cannabinoids (1 to 4)			х					Н	+		-							+		+		+				+	$\dashv$	$\dashv$	+	$\dashv$			$\dashv$			$\dashv$	$\dashv$	$\dashv$	
-	Т	T Uptake	H	H						Н	+	+	х	$\dashv$	_	_	+	$\dashv$		$\dashv$	+	+	+	+			Н	$\dashv$	$\dashv$	$\dashv$	$\dashv$		$\dashv$		х			+	$\dashv$	$\dashv$	
		T3 (Free)								Н	+	-	×	+	x			$\dashv$		+	+	+		+				$\dashv$	$\dashv$	+	+	x		x	x			+		$\dashv$	
		T4 (Free)								Н	$\dashv$	+	+	х	$\dashv$	х				+		+	+	+				+	$\dashv$	+	+	x		x	x			+			
		T3 (Total)		H						Н	_	$\rightarrow$	$\rightarrow$	_	-	x		$\dashv$		$\dashv$	+	+		+				$\dashv$	$\dashv$	+	+	x		x	x			+		$\forall$	
		T4 (Total)									_	_	$\rightarrow$	_		x				1											1	x		x	x				-		
		Testosterone								П		_	х		х																	х		х	х						
		Testosterone (Free)																																х	х						
		Tetracyclines (Generic)																																							
		Theophylline										х	х	х	х																1	х		х	х						
		Thiamphenicol																																							
		Thrombin Time (TT) Thrombomodulin (TM)									-	+	-							1	+	+		+	х			-			-							$\dashv$			
		Thyroglobulin	H	H		$\vdash$				Н	$\dashv$	+	+	$\dashv$	$\dashv$	+	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	+	+			Н	$\dashv$	$\dashv$	$\dashv$	+	$\dashv$	$\dashv$	х	х			х	$\dashv$	$\dashv$	
		Tobramycin									+	х		х							+											х		x	x			^			
		Total Antioxidant Status (TAS)				х																																			
		Toxoplasma <i>gondii</i> IgG																																							
		Toxoplasma gondii IgM									1	I											I								T	1									
		Tramadol										1																													
		Transferrin										х	х	х	х						1																			х	х
		Trazadone									-	1								1	1			-							-	1									
		Trenbolone Treponema pallidum (Syphilis) IgG									+	+										+						+										$\dashv$			
		Tricyclic Antidepressants									+										+	+									+							+			
		Triglycerides									+	х	x	х	х	x	х				+	+							1		+										f
		Trimethoprim										1																													
		Troponin I						х	х			х																													
		Troponin T							х	х		T	х		х	T					$\top$									1		T									

4																							52			40												Page
,	45	45	45	46	46	46	47	20	20	20	21	23	25	22	22	29	26	29	26	26	09	09	61-62	62	63	64	29	8	2	02	7	7	72	22	75	76	26	Immunology/Protein Contro
											l_												ies		١,	ço .			ors	ors	ors	tors	tors					Infectious Disease Contro
CRP Controls and Calibrator					or						Lyme Disease (Borrelia burgdorferi) Control										Adhesion Molecules Control and Calibrator		Cytokine Array Controls and Calibrator Series		lor	Metabolic sydrome Controls and Calibrators Thyroid Calibrators			Drugs of Abuse Array 1 Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	Drugs of Abuse Array V Controls and Calibrators					(Serolog
					Immunoglobulin Liquid Protein Calibrator						i) Co				Direct LDL/HDL Cholesterol Calibrator	Apolipoprotein Control and Calibrators	ator				Calibr		orato		Synthetic Steroids Control and Calibrator	a a	Therapeutic Drug Control & Calibrator	2	nd C	d Cal	nd Ca	od Ca	nd Ca					Lipid Contro
				Cystatin C Control and Calibrator	n Ca		sTfR Control and Calibrator Series		s <sub>l</sub> o.	trol	orfer				Calib	Salibr	Lipoprotein (a) Control and Calibrator				and C		Calik	0 -	g c	and	Calib	t Ca	rolsa	ols an	ols ar	ols ar	olsar					Speciality & Research Contro
ator			ator	Calib	rotei		tor S	<u>s</u>	Anti SARS-CoV-2 Spike Controls	Epstein Barr Virus (EBV) Control	urgd				erol (	o pur	o pui	ator		-	trol		and	Evidence Immunoassay Control	olan	rols	8 0	Ethanol Calibrator/Control Set	Cont	ontro	Contro	Contr	Contr					Therapeutic Drug Contro
CRP Controls and Calibrator			6-2-Microglobulin Calibrator	and 0	uid P		libra	Anti SARS-CoV-2 Controls	ike 0	BV)	lia b				olest	trol a	trol a	sLDL Control and Calibrator	ols	Growth Promoter Control	Con	Cerebral Array II Control	trols	say C	ontr	5	ontro	ontr	1 Plus	) II C	E	≥	>	trol	_		rator	
o pu		ltrol	i.	trol	Liqu		d Ca	-2 Cc	-2 Sp	us (E	Borre	ols	S		Cho	Con	Cont	od C	ontr	er C	cules	°	Son	noas	Spi	tors	O an	tor/C	\rray`	Arra	Arra	Arra	Arra	Con	ontro	- 0	Salibi	Toxicology Contro
olsa	0	S	nqol	Con	bulir	tor	ol an	CoV	CoV	ı. Y	ase (I	ontr	ntrol	rol	/HDI	otein	n (a)	rola	oial C	omo	Molec	ırray	ırray	nuu,	otero	Sydra	o Dr	librat	onse ⊿	panq	pnse	pnse	pnse	rine	Je C	Cont	nin	Urine Contro
Contr	CSF Control	Liquid CSF Control	icrog	ti	nogle	IgE Calibrator	Conti	ARS	ARS	in Ba	Dise	Serology Controls	ToRCH Controls	Lipid Control	t LDL	oppre	rotei	Cont	Antimicrobial Controls	th Pr	ion	oral A	ine /	uce I	etic	Metabolic sydrome	peut	ol Ca	of Ak	of A	of A	of A	of A	Assayed Urine Control	Liquid Urine Control	Urinalysis Control	Microalbumin Calibrator	
CRP (	SF	iquic	3-2-M	Cysta	mmu	gE C	TfR (	Anti S	Anti S	pste	yme	erol	o.RC	bidi.	Direc	Apoli	ipop.	LD L	Antin	arow	Adhe	Cerel	jot :	vide	ynth	hvro	hera	than	Orugs	Jrugs	Jrugs	Jrugs	Jrugs	Assay	iquic	Jrina	Aicro	
		-			-		S	4		<u> </u>	1-	0)	1-			7		S	1		4				,, 2		-	-   -						1	_	_	_	Renin
		$\vdash$	+	$\vdash$																			+	$^{+}$	$^{+}$	x	$^{+}$		t			$\dashv$	$\dashv$					Resistin
		$\vdash$	+	+							+												+		$^{+}$	+						_	$\dashv$					Retinol Binding Protein (RBP)
			+	$^{+}$																			$\top$		$^{+}$	+												Rheumatoid Factor (RF)
				$\vdash$										х									$\top$			+												Rubella IgG
				$\vdash$										х									$\top$			+						1						Rubella IgM
		T	T	$\vdash$						Т													$\top$		T	$\top$	T	×	T			$\exists$	x					Salicylate
																																	х					Salicyluric Acid
																								T		T								х				Salvinorin
																				×																		Semicarbazine (SEM)
																																	x					Sertraline
		$\vdash$	+	+																			+	$^{+}$	$^{+}$	+						+	$\dashv$					Sex Hormone Binding Globulin (SHBG)
				+														x					+			+						+						sLDL
	×		×	+							+							^					+		+	+	+	+				$\dashv$			х	х		Sodium
	^	+	<u> </u>	+	$\vdash$	H				Н	+		+									+	+	+	+	+	+	+	+			$\dashv$	+	-	^	^		
		+	+	+						┝	+		+									+	+	x	+	+	+	+	╁		$\blacksquare$	$\dashv$	+					Soluble IL-2 Receptor α (sIL-2Rα)
	H	$\vdash$	+	+						H	+		$\vdash$									_	- 1	×	+	+	+	+	╀			4	+					Soluble IL-6 Receptor (sIL-6R)
		$\vdash$	$\vdash$	+				х		H	-											4	+	+	+	+	+	+	╀			$\dashv$	$\dashv$	_				Soluble Transferrin Receptor (sTfR)
																							× :	x														Soluble Tumour Necrosis Factor Receptor 1 (sTNFR I)
																								x														Soluble Tumour Necrosis Factor Receptor 11 (sTNFR I1)
		T	T																					T	Ť		T		T				$\top$			x	х	Specific Gravity
		$\vdash$	+	$\vdash$																	x		+	$^{+}$	$^{+}$	+	$^{+}$		t			$\dashv$	$\dashv$					Stanozolol
				+							+										x		+			+						+						Stilbenes
		+	+	+	$\vdash$	$\vdash$				Н										×	^	+	+	+	+	+	+	+	+			$\dashv$	$\dashv$					Streptomycin
		+	+	+	H	H				$\vdash$										^		+	+	+	+	+	+	+	+			$\dashv$	+	+				
	H	+	+	+						H	+		+									+	+	+	+	+	+	+	╀			$\dashv$	+					Superoxide Dismutase (Ransod)
	H	+	+	+	H					┝	+		$\vdash$									4	+	+	+	+	+	+	╀		$\blacksquare$	$\dashv$	$\dashv$	х	-	$\dashv$		Synthetic Cannabinoids (1 to 4)
	H	+	+	+						H	+		+										+	+	+	+	+	+	-			4	_	-				T Uptake
		+	+	$\vdash$	L	L				H	$\vdash$											4	+	,	К	+	Х		╀			4	4	4				T3 (Free)
		-	-	-						L	+		-										+	+	к	+	х	-	╀			4	4	_				T4 (Free)
	L	-	-	$\vdash$						L	+		-									_	+	)	к	+	х		╄			4	4					T3 (Total)
	H	$\vdash$	+	$\vdash$	H	H		L		H	+	H	-									4	+	-	к	+	х	-	╀			4	$\dashv$	_	_			T4 (Total)
				-				H																,	к		H											Testosterone
			-					H																			H											Testosterone (Free)
																				х				+			H	×										Tetracyclines (Generic) Theophylline
																				х							H	X										Thiamphenicol
		+	+	+	$\vdash$	$\vdash$				Н										^		+	+	+	+	+	+		+			$\dashv$	+					Thrombin Time (TT)
		+	+	+							+		$\vdash$									+	x	+	+	+	+	+	+			+	+					Thrombomodulin (TM)
		$\vdash$	+	$\vdash$							+										Н	1	+	$^{+}$	$^{+}$	+	t		t	П	$\exists$	$\dashv$	$\dashv$					Thyroglobulin
				$\vdash$																			$\top$			+		×										Tobramycin
		T	T	T																			$\top$		T	$\top$	T		T									Total Antioxidant Status (TAS)
		T	T	T										х									$\top$	T	T	$\top$	T					T						Toxoplasma gondii IgG
		T	T	Т						П				х										T	T		T		T									Toxoplasma gondii IgM
		_																															х					Tramadol
																																						Transferrin
					_																												х					Trazadone
																																						TTULLUOTIO
																					х																	Trenbolone
													x	x							х																	
													х	x							х									x			x					Trenbolone
													x	x	x						x									x			x					Trenbolone  Treponema pallidum (Syphilis) IgG
													x	x	x					x	х									x			x					Trenbolone Treponema pallidum (Syphilis) IgG Tricyclic Antidepressants

	Page				_	_																									_								_	_
Ant	ioxidant Controls	80	80	80	80	11	14	14	15	15	92	19	20	77	22	23	23	24	24	24	22	25	25	70	56	29	32	32	33	36	36	37	37	38	39	39	40	40	43	43
Blo	od Gas Controls	librato									_			control																										
Car	diac Controls	and Ca	ibrator	ontrol							Contre	ontrol	Contro	Plus C		٤											es		tor	ontrol	trol			-0						
Clir	ical Chemistry Controls	Contro	nd Cal	od) Co	trol					'n	n Plus	lus Co	Plus	minu	ontro	. Sert		tor					rator				r Seri		alibra	Ŭ (I	Con		- Io	Contr	ntrol	ntrol				
Coa	gulation & Haematology atrols	insel) C	ntrol a	(Ranse	s Con			101		librate	eminn	ium P	mium	try Pre	yed C	brato	rol	alibra	_	ε		orator	Calib				ibrato		and C	e (AM	eminn		Cont	Plus (	/ I Co	) II C	_	ntrol	_	ator
Dia	petes & Whole Blood	dase (Ra	tase Co	nutase	t Statu	rol		Cont	hool	and Ca	stry Pr	y Prem	try Pre	Chemis	y Assa	ry Cali	ol Cont	l and C	Contro	d Seru		d Calii	rol and	ontro	ıtrol	outro	nd Ca	louriug I	ontrol	lormon	ssay Pr		emium	emium	eciality	eciality	Contro	ing Co	Contro	Calibra
	nunoassay Controls	e Peroxi	e Reduc	le Disn	oxidan	s Cont	ontro	Cardia	T Con	ontrol	Chemi	emistr	Shemis	sayed (	emist	hemist	Ethan	Contro	rubin	levate	Contro	itrol ar	Cont	lices C	on Co	ogy Cc	introl a		nine C	erian F	munoa	rol	ssay Pr	ssay Pr	ssay Sp	ssay Sp	larker	Screer	rotein	rotein
lmn	nunology/Protein Controls	Glutathione Peroxidase (Ransel) Control and Calibrato	Glutathione Reductase Control and Calibrator	Superoxide Dismutase (Ransod) Control	Total Antioxidant Status Control	Blood Gas Control	Cardiac Control	Tri-Level Cardiac Control	Troponin T Control	CK-MB Control and Calibrator	Precision Chemistry Premium Plus Control	Liquid Chemistry Premium Plus Control	Assayed Chemistry Premium Plus Control	Liquid Assayed Chemistry Premium Plus Control	Bovine Chemistry Assayed Control	Clinical Chemistry Calibrator Serum	Ammonia Ethanol Control	Aldolase Control and Calibrator	Liquid Bilirubin Control	Bilirubin Elevated Serum	Glycerol Control	Multi Control and Calibrator	Glutamine Control and Calibrator	Serum Indices Control	Coagulation Control	Haematology Control	HbA1c Control and Calibrator Series	G-6-PDH Control	Fructosamine Control and Calibrator	Anti-Müllerian Hormone (AMH) Control	Liquid Immunoassay Premium Control	PTH Control	Immunoassay Premium Control	Immunoassay Premium Plus Control	Immunoassay Speciality I Control	Immunoassay Speciality II Control	Tumour Marker Control	Maternal Screening Control	Specific Protein Control	Specific Protein Calibrator
т	TSH	G	G	S	ř	В	0	F	F		$\neg$	×	⋖	×	m	0	⋖	<	_	ω	0	2	0 (	Λ (	5 :	I	Ι .	7 6	<u> </u>	<	×	_ □	×	×	-	-	F	2	S	S
	Tumour Necrosis Factor α (TNFα)							-	$\dashv$	+	^	^	+	^		$\dashv$	-	+	+		+				+			+	+		^		^	^			$\dashv$	1	+	
	Tylosin								$\dashv$	+	+	+	+	+	+	$\dashv$	$\dashv$	+	+		+				+		+	+	+								$\dashv$		+	
U	Unconjugated Estriol					Н			$\dashv$	+	+	+	$\forall$	+	+	$\dashv$	$\dashv$	+	+	+	+	_			+		+	+	+			Н	Н				$\dashv$	х	+	
	Urea					Н			$\dashv$	+	x	х	х	х	х	х	$\dashv$	+	+	+	+	$\dashv$			+		+	+	+	$\vdash$							$\dashv$	^	+	
	Uric Acid (Urate)								$\dashv$	+	$\rightarrow$	x	$\rightarrow$	$\rightarrow$	х	x	$\dashv$	+	+		+	$\dashv$			+			+	+								$\dashv$		+	
	Urobilinogen								$\dashv$	+	^	^	^	^	^	^	$\dashv$	+	+		+	_			+			+									$\dashv$		+	
V	Valproic Acid					Н			$\dashv$	+	x	х	+	х	+	$\dashv$	$\dashv$	$\dashv$	+		$\dashv$	+	+		+			+	+		х		х	х			$\dashv$		+	
ľ	Vancomycin								$\dashv$	$\rightarrow$	$\rightarrow$	x	+	х	+	+	+	+	+		+	$\dashv$			+			+	+		x		x	х			$\dashv$	$\dashv$	+	
	Vanillylmandelic Acid (VMA)								$\dashv$	+	^	^	+	^		$\dashv$	$\dashv$	+	+		+	$\dashv$			+			+	+		_		^	^			$\dashv$	$\dashv$	+	
	Varicella Zoster Virus (VZV) IgG								$\dashv$	+	+					$\dashv$	$\dashv$	+	+		+				+			+									$\dashv$		+	
	Vascular Cell Adhesion Molecule-1 (VCAM-1)									1		1	1	1	1										+	T														
	Vascular Endothelial Growth Factor (VEGF)																																							
	Vitamin B <sub>12</sub>										х	х	х	х	х													Т			х		х	х						
W	White Blood Cells (WBC)																									х														
	White Blood Cells Differential (WBC-D)																									х														
Z	Zaleplon																											Т												
	Zeronal																											Т												
	Zinc										х	х	х	х	х	х																								
	Zolpidem																																							

					1		1	1																		1.				4													Pag	e	
44	44	45	45	45	46	46	46	47	50	3	20	20	2	51	23	4 1	3 1	3   1	20	26	26	26	29	909	909	61 62	70-10	62	63	63-64	64	29	20	9	20	7	71	72	75	75	92	92		Immunology/Protein Contro	ols
ion)													lor											or		001.00	Sallas		_	tors				orators	rators	Drugs of Abuse Array III Controls and Calibrators	Drugs of Abuse Array IV Controls and Calibrators	rators						Infectious Disease Contro (Serolog	
Pre-dilut						brator							) Cont				1090	910	ators	tor				alibrat		soing S activities	ator		ibrato	alibra		ator		nd Calik	Calib	d Calib	d Calik	d Calik						Lipid Contro	ols
equires					rator	in Cali		Series			rols	trol	lorferi				11.0		Calibra	Salibra				and C		ر از	- [2	2	nd Cal	and C		Calibr	t.	trols ar	ols and	ols an	rols an	rolsan						Speciality & Research Contro	ols
Specific Protein Calibrator (Requires Pre-dilution)	CRP Controls and Calibrator			brator	Cystatin C Control and Calibrator	Immunoglobulin Liquid Protein Calibrator		sTfR Control and Calibrator Series	rols	2	Anti SARS-CoV-2 Spike Controls	Epstein Barr Virus (EBV) Control	Lyme Disease (Borrelia burgdorferi) Control				Elpid Collision	0 -	Apolipoprotein Control and Calibrators	Lipoprotein (a) Control and Calibrator	orator		trol	Adhesion Molecules Control and Calibrator	0	Cotobine Array Controls and	all all a	Evidence Immunoassay Control	Synthetic Steroids Control and Calibrator	Metabolic Sydrome Controls and Calibrators		Therapeutic Drug Control & Calibrator	Ethanol Calibrator/Control Set	Drugs of Abuse Array 1 Plus Controls and Calibrators	Drugs of Abuse Array II Controls and Calibrators	Contr	/ Cont	Drugs of Abuse Array V Controls and Calibrators	_			or		Therapeutic Drug Contro	ols
Calibr	d Cali		rol	8-2-Microglobulin Calibrator	rol and	Liquid		Calib	Anti SARS-CoV-2 Controls		Spike	ıs (EB)	orrelia	<u>s</u>			100		ontro	contro	sLDL Control and Calibrator	Antimicrobial Controls	Growth Promoter Control	les C	Cerebral Array II Control	on on		oassay	ds Cor	me Co	ors	g Con	ır/Con	ray 1 Pl	vray II	vray II	vray  \	vray \	Assayed Urine Control	ntrol	_	Microalbumin Calibrator		Toxicology Contro	ols
otein	ols an	0	Liquid CSF Control	ilobuli	Cont	pulin	tor	ol and	CoV-S		CoV-2	r Vir	ase (B	Serology Controls	Toron Controls			.	otein C	n (a) C	rol an	ojal Co	omote	Moleci	rrav	,	u l ay	nmun	steroic	Sydro	Thyroid Calibrators	ic Dru	libratc	use Ar	pase A	pase A	buse A	puse ⊿	rine (	Liquid Urine Control	Urinalysis Control	nin Ç		Urine Contro	ols
ific Pr	Contr	CSF Control	d CSF	Aicrog	atin C	nnoglo	IgE Calibrator	Contr	SARS.		SARS-	ein Ba	Dise	logy C	1 5 H	lond Control			popre	oroteii	Cont	nicrok	vth Pr	sion !	bral A	Ling	Y DIE	ance Ir	hetic \$	polic	oid C	apeuti	nol Ca	s of Ak	s of A	s of A	s of A	s of A	yed U	d Uri	alysis (	oalbur			L
Spec	CRP	CSF	Liqui	β-2-Γ	Cyst	- E	IgE	sTfR	Anti		Anti	Epste	Lyme	Sero	TORC	1 2			Apol	Lipo	SLDL	Antir	Gro	Adhe	Cere		2 .	Evide	Synt	Meta	Thyr	Ther	Etha	Drug	Drug	Drug	Drug	Drug	Assa	Liqui	Uriņ	Micr	L		
																													х			х												TSH	Т
															L												2	х			х													Tumour Necrosis Factor α (TNFα)	
																							х																					Tylosin	
																																												Unconjugated Estriol	U
															П			Т	П																					х	х			Urea	
																																								х	х			Uric Acid (Urate)	
																																										х		Urobilinogen	
																																	х											Valproic Acid	٧
															П			Т															х											Vancomycin	
															П			T	T																					х				Vanillylmandelic Acid (VMA)	
Ì															Т	х		T	T																									Varicella Zoster Virus (VZV) IgG	
Ì																									x																			Vascular Cell Adhesion Molecule-1 (VCAM-1)	
																											,	x																Vascular Endothelial Growth Factor (VEGF)	
																																												Vitamin B <sub>12</sub>	
															П			Т	Т																									White Blood Cells (WBC)	W
															П	П		Т	Т																									White Blood Cells Differential (WBC-D)	
																																					х							Zaleplon	Z
															П									х																				Zeronal	
																																												Zinc	
																																					х							Zolpidem	
																																					х							Zopiclone	

# RANDOX QC PORTFOLIO

Our expertise in Quality Control have led to us creating market leading products that are tried and trusted by laboratory professionals. Our product portfolio offers high quality diagnostic solutions which offer reliable and rapid diagnosis and we believe that by providing laboratories with these tools, we can improve health worldwide.

#### ACUSERA 24.7 - Online QC software with real-time peer group statistics



Designed for use with the Acusera range of third party controls, the Acusera 24.7 software will help you monitor and interpret your QC data. Access to an impressive range of features, including interactive charts, the automatic calculation of Measurement Uncertainty & Sigma Metrics and live peer group data generated from our extensive database of laboratory participants, ensures Acusera 24.7 is the most comprehensive package available.

## RIQAS - Randox international quality assessment scheme



The largest international EQA scheme, used by more than 55,000 laboratory participants in over 134 countries worldwide. Comprising over 360 routine and esoteric parameters in 39 comprehensive and flexible EQA programmes, RIQAS is designed to cover all areas of clinical testing. Each programme benefits from a wide range of concentrations, frequent reporting and informative yet user-friendly reports.

# ACUSERA VERIFY - Keep your instrument in check with calibration verification materials



Designed to challenge a larger section of an instruments reportable range and test if a system's calibration is still valid. Our linearity materials cover a wide range of testing including, CRP, RF, Lipids, Therapeutic Drugs, Esoterics and more. Designed with user convenience in mind, all our linearity sets are supplied in a liquid format and in varying levels. Our unique combination of analytes enables laboratories to reduce the number of individual products required while ultimately reducing costs and time.

## MOLECULAR - IQC & EQA solutions for infectious disease testing



Our complete quality control solutions for molecular infectious disease testing comprise hundreds of characterised viral, bacterial and fungal targets. Covering a wide range of transplant associated diseases, respiratory infections, blood borne viruses, sexually transmitted infections and more, our Molecular IQC and EQA range covers the full laboratory portfolio. Both our product offering are manufactured using only the highest quality material and the availability of whole pathogen samples ensures the performance of the patient sample is mimicked throughout.

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

# **HEADQUARTERS**

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

### **INTERNATIONAL OFFICES**



#### AUSTRALIA

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



#### CZECH REPUBLIC

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



#### HONG KONG

Randox Laboratories Hong Kong Limited Tel: +852 3595 0515



#### POLAND

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



#### REPUBLIC OF IRELAND

Randox Teoranta Tel: +353 7495 22600



#### SOUTH KOREA

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



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



Randox Brasil Ltda. Tel: +55 11 5181 2024



#### FRANCE

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



Randox Laboratories Ltd. Tel: +39 06 9896 8954



#### PORTUGAL

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



#### SLOVAKIA

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



#### SPAIN

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



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



Randox Laboratories Ltd. Tel: +86 021 6288 6240



#### **GERMANY**

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



Randox Laboratories India Pvt Ltd. Tel: +91 80 6751 5000



#### PUFRTO RICO

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



#### SOUTH AFRICA

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



#### SWITZERLAND

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



#### VIETNAM

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

# For technical support contact:

technical.services@randox.com















