

RANDOX

ACUSERA

SMART



IMMUNOASSAY



CLINICAL
CHEMISTRY



LIQUID CARDIAC



SPECIFIC
PROTEIN



URINE
CHEMISTRY



PTH

ACUSERA



**TRUE THIRD PARTY CONTROLS
OFFERING COMPLETE TEST MENU CONSOLIDATION**

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

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.



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.



Commutability

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



True Third Party Controls

Manufactured independently, the Acusera range delivers unbiased performance assessment with any instrument or method, helping to meet ISO 15189:2022 requirements whilst simultaneously eliminating the need for multiple instrument dedicated controls.



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.



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.

ACUSERA SMART BENEFITS



STREAMLINE WORKFLOW

With the ability to load the Acusera Smart QC and walk away, it optimises workflow by removing manual steps.



MINIMISING HUMAN ERROR

The Smart QC workflow minimises the potential for human error by reducing the operator handling time.



AUTOMATION

Automating the quality control process reduces turnaround time and increases efficiency.



REDUCED STORAGE

Can be conveniently stored onboard analysers with refrigerated compartments, for added convenience.



SIMPLIFIED PROCESS

Our Smartscan controls are linked to an XML file from Randox.com, where QC target values can be uploaded directly to the analyser, simplifying the onboarding process.



CONVENIENT DESIGN

Our Smartload controls can be conveniently loaded directly into the analyser, eliminating the need to aliquot QC material.

RANDOX
QUALITY CONTROL



ACUSERA SMART OVERVIEW

The Acusera Smart controls range is designed to fit directly onto a wide range of test systems without the need to aliquot material, streamlining the QC process by minimising human error and optimising workflow.



SMARTSCAN QC;

1. The Smartscan QC is directly loaded onto the analyser.
2. The analyser scans the barcode.
3. The operator can log on to access the relevant target value file and upload as instructed.



SMARTLOAD QC;

1. The Smartload QC is directly loaded onto the analyser
2. Operator follows relevant instructions to upload values.

NEW ACUSERA SMART CONTROL



PTH Control

The Acusera Smart PTH Control is intended for use with *in vitro* diagnostic assays for the quantitative determination of Parathyroid Hormone in human serum and plasma. This notoriously unstable marker is available with an impressive 30 day open vial stability, reducing waste while remaining easy-to-use.

Analytes

PTH (Parathyroid Hormone)



Description

Description	Size	Cat. No.
Smartload PTH Control Level 1	3 x 3 ml	PTH10608
Smartload PTH Control Level 2	3 x 3 ml	PTH10609
Smartload PTH Control Level 3	3 x 3 ml	PTH10610

Benefits

- Liquid frozen
- Human based serum
- Stable to expiry date at -20°C to -80°C
- Open vial stability of 30 days at 2°C to 8°C

Not suitable for use with Siemens Immulite or Beckman DXI Analysers



Liquid Cardiac Control

The Acusera Smart Liquid Cardiac Control is designed to cover a range of cardiac markers at clinical decision levels, eliminating the need for additional low-level controls at extra expenses. It is intended for use with *in vitro* diagnostic assays for the quantitative determination of 7 cardiac markers. This control also has an impressive 14 day open vial stability for Troponin I, and 30 days for other analytes. It is designed for use in the routine monitoring of both accuracy and precision.

Analytes

CK-MB | Homocysteine | hsCRP | Myoglobin | Troponin I | Digoxin | NT-proBNP



Description

Description	Size	Cat. No.
Smartload Liquid Cardiac Controls Level 1	5 x 3 ml	CQ10534
Smartload Liquid Cardiac Controls Level 2	5 x 3 ml	CQ10535
Smartload Liquid Cardiac Controls Level 3	5 x 3 ml	CQ10536



Description

Description	Size	Cat. No.
Smartscan Liquid Cardiac Controls Level 1 (Siemens Atellica)	5 x 3 ml	CQ10616
Smartscan Liquid Cardiac Controls Level 2 (Siemens Atellica)	5 x 3 ml	CQ10617
Smartscan Liquid Cardiac Controls Level 3 (Siemens Atellica)	5 x 3 ml	CQ10618

Benefits

- Liquid frozen
- Human serum based
- Open vial stability of 30 days at 2-8°C for most analytes (excluding Troponin I)
- Consolidates 7 key cardiac markers
- Cut off levels for Troponin I in line with internationally recommended levels

NEW ACUSERA SMART CONTROL



Clinical Chemistry Control

The Acusera Smart Liquid Chemistry Control is intended for *in vitro* diagnostic use, in the quality control of diagnostic assays. Three clinically significant levels are available. Covering 98 analytes, the control enables effective consolidation and cost saving.

Analytes

Cardiac

CK (Total)
Myoglobin
Troponin T

Drugs

Amikacin
Caffeine
Carbamazepine
Digoxin
Ethanol
Gentamicin
Lithium
Paracetamol
Phenobarbitone
Phenytoin
Salicylate
Theophylline
Valproic Acid
Vancomycin

Electrophoresis

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

Immunoassay

α -Fetoprotein (AFP)
CEA
Cortisol
DHEA Sulphate
Folate
FSH
hCG
Luteinising Hormone (LH)
Progesterone
Prolactin
PSA (Total)
T Uptake
T3 (Free)
T3 (Total)
T4 (Free)
T4 (Total)
Testosterone
TSH
Vitamin B12

Lipids

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

Triglycerides

Proteins

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

Routine Chemistry

α -HBDH
Acid Phosphatase (Total)
Albumin
Alkaline Phosphatase (ALP)
ALT (GPT)
Amylase
Amylase (Pancreatic)

AST (GOT)
Bicarbonate
Bile Acids
Bilirubin (Direct)
Bilirubin (Total)
Calcium
Chloride
Cholinesterase
Creatinine
D-3-Hydroxybutyrate
 γ GT
GLDH
Glucose
Iron
Iron (TIBC)
Lactate
Lactate Dehydrogenase (LDH)
Lipase
Magnesium
Osmolality
Phosphate (Inorganic)
Potassium
Sodium
Urea
Uric Acid (Urate)

Trace Metals

Copper
Zinc



Description	Size	Cat. No.
Smartload Liquid Chemistry Controls Level 1	12 x 4 ml	LAL10625
Smartload Liquid Chemistry Controls Level 2	12 x 4 ml	LAN10626
Smartload Liquid Chemistry Controls Level 3	12 x 4 ml	LAE10627

Benefits

- Liquid frozen
- Human serum based
- Open vial stability of 7 days at 2-8°C for most analytes
- Consolidates 98 analytes
- High levels of CRP and other proteins eliminate the need for multiple controls



Description	Size	Cat. No.
Smartscan Liquid Chemistry Controls - Level 1 (Siemens Atellica)	12 x 4 ml	LAL10565
Smartscan Liquid Chemistry Controls - Level 2 (Siemens Atellica)	12 x 4 ml	LAN10566
Smartscan Liquid Chemistry Controls - Level 3 (Siemens Atellica)	12 x 4 ml	LAE10567

NEW ACUSERA SMART CONTROL



Immunoassay Control

The Acusera Smart Liquid Immunoassay Control is intended for *in vitro* diagnostic use to cover immunoassay testing in a single tube. The three clinically significant levels provided will not only ensure accurate performance at key decision levels, but will also eliminate the need for additional controls, enabling greater consolidation and cost savings.

Analytes

17-OH-Progesterone	DHEA-Sulphate	Paracetamol	Theophylline
25-OH-Vitamin D	Digoxin	Phenobarbital	Thyroglobulin
α-Fetoprotein (AFP)	Ferritin	Phenytoin	Tobramycin
ACTH	Folate	Progesterone	Troponin I
Aldosterone	FSH	Prolactin	Troponin T
Androstenedione	Gentamicin	PSA (Free)	TSH
Anti-Thyroperoxidase (Anti-TPO)	Growth Hormone (GH)	PSA (Total)	Valproic Acid
β-2-Microglobulin	hCG	PTH*	Vancomycin
C-Peptide	Homocysteine	Sex Hormone Binding Globulin (SHBG)	Vitamin B12
CA125	Immunoglobulin E (IgE)	T Uptake	
CA15-3	Insulin	T3 (Free)	
CA19-9	Insulin Like Growth Factor 1 (IGF 1)	T3 (Total)	
Carbamazepine	Luteinising Hormone (LH)	T4 (Free)	
CEA	NT-proBNP	T4 (Total)	
Cortisol	Oestradiol	Testosterone	



Description	Size	Cat. No.
Smartload Immunoassay Level 1	12 x 4 ml	LIA5142
Smartload Immunoassay Level 2	12 x 4 ml	LIA5143
Smartload Immunoassay Level 3	12 x 4 ml	LIA5144



Description	Size	Cat. No.
Smartscan Immunoassay Level 1 (Siemens Atellica)	12 x 4 ml	LIA10568
Smartscan Immunoassay Level 2 (Siemens Atellica)	12 x 4 ml	LIA10569
Smartscan Immunoassay Level 3 (Siemens Atellica)	12 x 4 ml	LIA10570

Benefits

- Liquid frozen
- 100% human serum
- Stable for 7 days at 2°C to 8°C for most analytes
- Consolidates routinely run tumour markers, cardiac markers, therapeutic drugs and hormones

NEW ACUSERA SMART CONTROL



COMING SOON

Specific Protein Control

Our Specific Protein Control covers a unique combination of analytes to reduce the number of individual controls required.



COMING SOON

Urine Chemistry Control

Our Urine Chemistry Control has been designed to consolidate commonly used urine chemistry analytes in a single vial, reducing the number of controls required to cover your complete test menu.

RANDOX QC PORTFOLIO



ACUSERA - True Third Party Controls Offering Complete Test Menu Consolidation

- ▶ Uniquely combining more than 100 analytes conveniently in a single control, laboratories can significantly reduce costs and consolidate without compromising on quality. As true third party controls, unbiased performance assessment with any instrument or method is guaranteed.



ACUSERA 24•7 - Online QC Software Serving Accurate Data Management

- ▶ 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 75,000 laboratory participants in over 134 countries worldwide. Comprising over 360 routine and esoteric parameters in 36 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.

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

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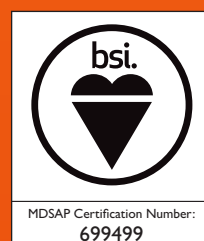
For technical support contact:

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RANDOX
QUALITY CONTROL



LT948 APR24