



Quality Management Solutions

Validate your clinical research with Randox Quality Control Solutions

ACUSERA © Internal Quality Controls

Randox Biosciences is one of the largest manufacturers of Quality Controls in the world. This includes our own brand Acusera portfolio of controls and calibrators, and customised material for laboratories, research organisations, EQA/PT schemes and other diagnostic manufacturers.

With over 390 parameters in our Acusera range, choice and flexibility is guaranteed. Principle control products include:

- Clinical Chemistry
- Immunoassay
- Urine
- Immunology /Proteins
- Lipids
- Cardiac
- CSF
- Therapeutic Drug Monitoring
- Toxicology
- Urine Chemistry
- Urinalysis
- Coagulation
- Haematology
- Blood Gas
- Tumour Markers
- Maternal Screening
- Antioxidants
- Diabetes
- Speciality / Research

ACUSERA 24•7

An Effective Tool for Evaluating Laboratory Performance

Acusera 24•7 is an interlaboratory data management package, primarily designed to complement the Acusera range of true third party controls. An effective IQC and peer group reporting program like Acusera 24•7 will help to improve your laboratory's analytical performance, meet regulatory requirements and most importantly, ensure accurate results.

The software has two complementary functions; the internal function of the software is designed to help laboratories manage and interpret their daily QC data while the peer group function of the software allows comparison to worldwide peer group statistics, enabling rapid and effective troubleshooting.

Customised Quality Control Sera



Radox Customised Quality Controls – bespoke solutions for your clinical research

Radox Biosciences is the leading provider of customised quality control materials. We supply bespoke QC solutions to leading CRO's, pharma companies, reference laboratories and EQA/PT schemes all over the world.

Customising control materials can involve selecting analytes, analyte concentration, vial size or kit format ensuring a precise QC solution tailored to your clinical requirement.

Global harmonisation

Radox can manufacture custom QC lots and ship globally ensuring identical QC sera is run across your global laboratory operations (ideal for laboratory networks supporting clinical trials)

Consolidation

Radox will significantly consolidate your existing controls. An average laboratory may rationalise from 7 sera 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

Radox sera are stable for up to 4 years, enabling use of the same lot over an extended period

Options

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

Choice

3 different formats – lyophilised, liquid, liquid frozen

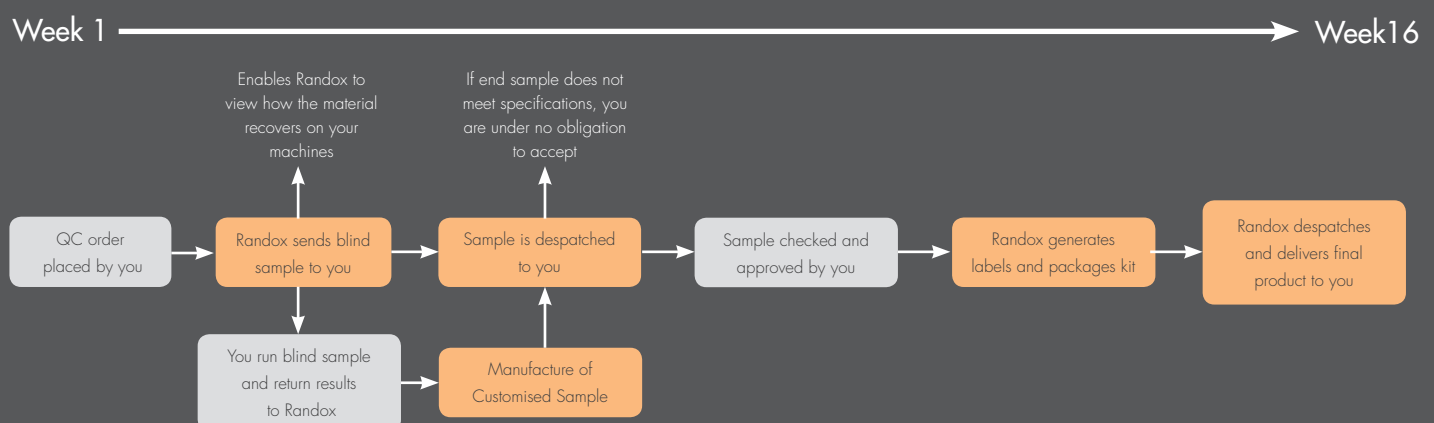
Flexibility

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

Quality

High quality specification, fully compliant with ISO 13485

Custom Control Timeline



Available Analytes for customised QC

This list is not exhaustive. If the analyte you require is not present, please contact info@randoxbiosciences.com

Antioxidant

Glutathione Peroxidase
Glutathione Reductase
Superoxide Dismutase
Total Antioxidant Status

Blood Gas

Calcium
Chloride
Glucose
Lactate
pCO₂
pH
pO₂
Potassium
Sodium
Total CO₂

Cardiac

BNP
CK (Total)
CK-MB
Carbonic Anhydrase III (CAIII)
D-Dimer
Digoxin
Hearttype Fatty Acid Binding Protein (HFABP)
Glycogen Phosphorylase BB (GPBB)
hs-CRP
High Sensitivity Troponin T
Homocysteine
Myoglobin
NT-ProBNP
Troponin I
Troponin T

Cellular Adhesion Molecules

E-Selectin
ICAM-1
L-Selectin
P-Selectin
VCAM-1

Cerebral

BDNF
GFAP
IL-6
NSE
NGAL
sTNFR1
Thrombomodulin

Coagulation

Activated Partial Thromboplastin Time (aPTT)
AntiThrombin III
Factor II
Factor V
Factor VII
Factor VIII

Factor IX
Factor X
Factor XI
Factor XII
Fibrinogen
Plasminogen
Protein C
Protein S
Prothrombin Time (PT)
Thrombin Time (TT)

CSF

Albumin
α-1-globulin
α-2-globulin
β-globulin
Chloride
γ-globulin
Glucose
IgG
Lactate
Protein
Sodium

Cytokine & Growth Factors

Epidermal Growth Factor (EGF)
Granulocyte Macrophage Colony-Stimulating Factor (GM-CSF)
Intercellular Adhesion Molecule 1 (ICAM-1)
Interferon-gamma (IFN-γ)
Interleukin-1 alpha (IL-1 α)
Interleukin-1 beta (IL-1 β)
Interleukin-2 (IL-2)
Soluble Interleukin-2 Receptor Alpha (sIL-2Rα)
Interleukin-3 (IL-3)
Interleukin-5 (IL-5)
Soluble Interleukin-6 Soluble Receptor (sIL-6SR)
Interleukin-4 (IL-4)
Interleukin-6 (IL-6)
Interleukin-7 (IL-7)
Interleukin-7D (IL-7D)
Interleukin-8 (IL-8)
Interleukin-10 (IL-10)
Interleukin-12p (IL-12p)
Interleukin-13 (IL-13)
Interleukin-15 (IL-15)
Interleukin-23 (IL-23)
Macrophage Inflammatory Protein-1 Alpha (MIP-1α)
Matrix Metalloproteinase 9 (MMP-9)
Monocyte Chemoattractant Protein-1 (MCP-1)
Soluble Tumour Necrosis Factor Receptor-1 (sTNFR1)
Soluble Tumour Necrosis Factor Receptor-2 (sTNFR2)
Tumour Necrosis Factor - alpha (TNF - α)
Tumour Necrosis Factor - beta (TNF - β)
Vascular Endothelial Growth Factor (VEGF)

Diabetes

Fructosamine
HbA1c
Hb1c
Hbs
HbA2

Drugs (Therapeutic)

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

Drugs of Abuse

7-aminoflunitrazepam
11-Nor D-9-THC-9-COOH
Acetaminophen
Amphetamine
Bath Salts 1+2
Benzylpiperazines
Barbiturates
Benzodiazepine
Benzoyllecgonine
Buprenorphine
Cannabinoids
Chloral Hydrate Metabolite
Cocaine Metabolite
Dextromethorphan
Ecstasy
EDDP
Ethyl Glucuronide
Ethanol
Escitalopram
Fentanyl
Generic Opioids
Haloperidol
Ibuprofen
Ketamine
LSD
Mescaline
Meprobamate
Meperidine
Methadone
Methamphetamine
Methaqualone
Methylphenidate

Morphine
MDMA
Opiates
Oxazepam
Oxycodone I
Oxycodone II
Phencyclidine
Phenobarbital
Phenylpiperazines
Propoxyphene
Salicylate
Salicylic Acid
Salvinorin
Secobarbital
Setraline
Tricyclic Antidepressants
Tramadol
Trazodone
Zoleplon
Zolpidem
Zopiclone

Endocrine

Leptin

Immunoassay

17-OH – Progesterone
ACTH
AFP
Aldosterone
Amikacin
β-2-Microglobulin
CEA
CA 125
CA 15-3
CA 19-9
CA 72-4
Calcitonin
Carbamazepine
C-Peptides
Cyfra 21-1
Cortisol
C-Peptide
DHEA-Sulphate
Digoxin
Estril
Estril (unconjugated)
Ethosuximide
Ferritin
Folate
FSH
Gastrin
Gentamicin
Growth Hormone
hCG
Free β hCG
IgE
IGF-1
Inhibin A
Insulin
LH
Neuron Specific Enolase
Osteocalcin
Oestradiol
Paracetamol
PAPP- A
Phenobarbital
Phenytoin
Primidone
Procalcitonin
Progesterone
Prolactin
PSA (Free)

PSA (Total)
PTH
Renin
Salicylate
SHBG
TBG
T Uptake
T₃ (Free)
T₃ (Total)
T₄ (Free)
T₄ (Total)
Testosterone
Testosterone (Free)
Theophylline
Thyroglobulin
Anti-TG
Anti-TPO
Tobramycin
TSH
Vanomycin
Valproic Acid
Vitamin B12
1-25-(OH)₂-Vitamin D
25-OH-Vitamin D

Lipids

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

Metabolic Syndrome

Resistin
Plasminogen Activator Inhibitor-1

Proteins

AFP
Albumin
α-1-Acid Glycoprotein (AAG)
α-1-Antitrypsin (AAT)
α-2-Macroglobulin
Antistreptolysin O
Anti-thrombin III
β-2-Microglobulin
Ceruloplasmin
Complement C₃
Complement C₄
CRP
Cystatin C
Ferritin
Haptoglobin
IgA
IgE
IgG
IgM
Kappa Light Chain
Kappa Light Chain (Free)
Lambda Light Chain
Lambda Light Chain (Free)
Prealbumin
Protein (Total)
RBP (Retinol Binding Protein)
Rheumatoid Factor
Transferrin

Routine Chemistry

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

Urine

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