



**RANDOX**

**aQusera**

Customised QC Serum

Made to measure for a perfect fit



Randox has 30 years experience in the development, manufacture and marketing of high quality clinical diagnostics equipment and quality control materials, supplying over 60,000 laboratories across the globe. Our products are manufactured to the highest specifications and conform to international standards. Rigorous quality procedures are used to achieve the high standards expected in clinical diagnostics.

Randox is the world's leading provider of customised control materials, with a proven track record of supplying customised serum to clients and EQA schemes all over the world. Our customised quality control service allows you to choose the number of analytes, vial size, concentration or format.

## Examples of Analytes Available for Customised QC Serum

The Randox Acusera range of quality controls is extensive and covers over 350 different parameters, examples of which are listed below. To enable us to identify and fulfil your needs, please discuss any specifications with your Randox representative, we are happy to consider any requirements you may have.

### ANTIOXIDANT

Glutathione Peroxidase  
Glutathione Reductase  
Superoxide Dismutase  
Total Antioxidant Status

### BLOOD GAS

Calcium  
Chloride  
Glucose  
Lactate  
PCO<sub>2</sub>  
pH  
PO<sub>2</sub>  
Potassium  
Sodium  
Total CO<sub>2</sub>

### CARDIAC

BNP  
CK (Total)  
CK-MB  
Carbonic Anhydrase III (CAIII)  
D-dimer  
Digoxin  
Heart-type Fatty Acid-Binding Protein (H-FABP)  
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  
Alpha-1-globulin  
Alpha-2-globulin  
Beta globulin  
Chloride  
Gamma-globulin  
Glucose  
IgG  
Lactate  
Protein  
Sodium

### CYTOKINE & GROWTH FACTORS

Epidermal Growth Factor (EGF) GMCSF  
Intercellular Adhesion Molecule 1 (ICAM-1)  
Interferon-gamma (IFN- $\gamma$ )  
Interleukin-1 alpha (IL-1  $\alpha$ )  
Interleukin-1 beta (IL-1  $\beta$ )  
Interleukin-2 (IL-2)  
Soluble Interleukin-2 Receptor Alpha (SIL-2R $\alpha$ )  
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)  
Monocyte Chemotactic Protein-1 (MCP-1)  
Matrix Metalloproteinase 9 (MMP-9)  
Soluble Tumour Necrosis Factor Receptor-1 (sTNFR1)  
Soluble Tumour Necrosis Factor Receptor-2 (sTNFR2)  
Tumour Necrosis Factor - alpha (TNF -  $\alpha$ )  
Tumour Necrosis Factor - beta (TNF -  $\beta$ )  
Vascular Endothelial Growth Factor (VEGF)

### DIABETES

Fructosamine  
HbA1c  
HbF  
Hbs  
HbA2

### DRUGS (THERAPEUTIC)

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

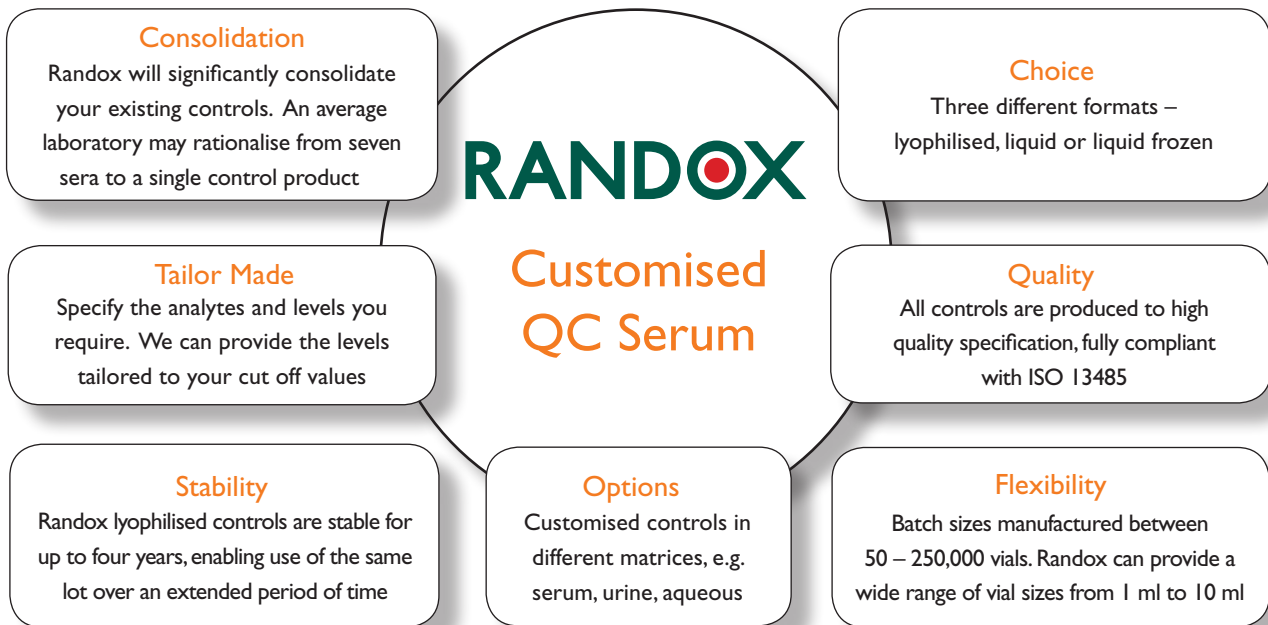
### DRUGS OF ABUSE

7-aminoflunitrazepam  
11-Nor D-9-THC-9-COOH  
Acetaminophen  
Amphetamine  
Bath Salts 1+2  
Benzylpiperazines  
Barbiturates  
Benzodiazepine

Benzoylcegonine  
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 27-29  
CA 72-4  
Calcitonin  
Carbamazepine  
C Peptides  
Cyfra 21-1  
Cortisol  
C Peptide  
DHEA-Sulphate  
Digoxin  
Estriol  
Estriol (unconjugated)  
Ethosuximide  
Ferritin  
Folate  
FSH  
Gastrin  
Gentamicin  
Growth Hormone  
hCG  
Free β hCG  
IgE  
IGF-I  
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  
T<sub>3</sub> (Free)  
T<sub>3</sub> (Total)  
T<sub>4</sub> (Free)  
T<sub>4</sub> (Total)  
Testosterone  
Testosterone (Free)  
Theophylline  
Thyroglobulin  
Anti-TG  
Anti-TPO  
Tobramycin  
TSH  
Vanomycin  
Valproic Acid  
Vitamin B12  
1-25-(OH)<sub>2</sub>-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  
Alpha-1-Acid Glycoprotein (AAG)  
Alpha-1-Antitrypsin (AAT)  
Alpha-2-Macroglobulin  
Antistreptolysin O  
Anti-thrombin III  
β-2-Microglobulin

Ceruloplasmin  
Complement C<sub>3</sub>  
Complement C<sub>4</sub>  
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  
Alpha-1-globulin  
Alpha-2-globulin  
Beta-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  
Gamma GT  
Gamma-globulin  
Glucose  
GLDH  
α-HBDH

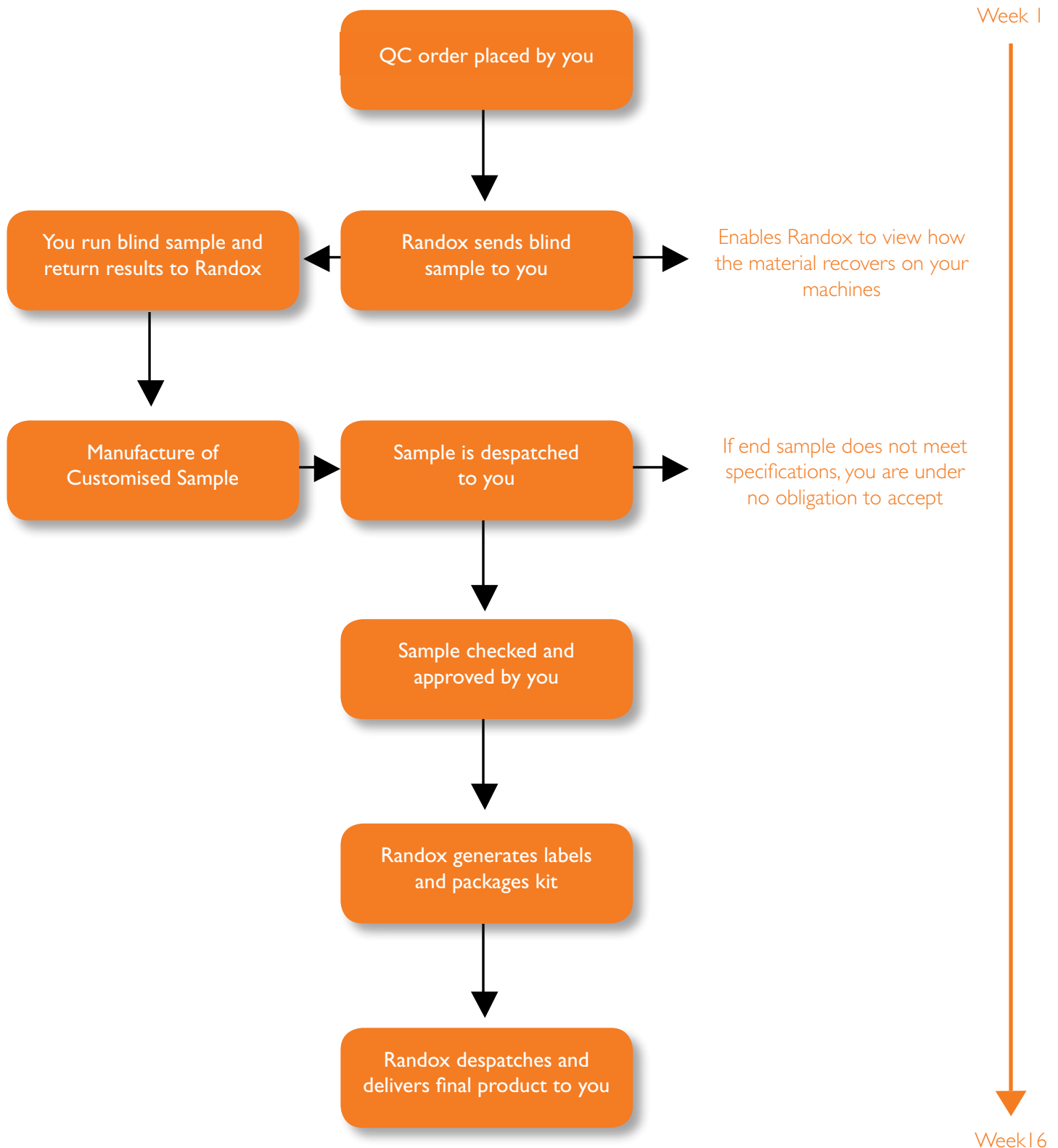
D-3-Hydroxybutyrate  
Iron  
LAP  
LD (LDH)  
Lipase  
Lactate  
Magnesium  
Osmolality  
Phosphate (Inorganic)  
Potassium  
Sodium  
TIBC  
Urea  
Uric Acid (Urate)  
Zinc

#### 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)

# CUSTOMISED QUALITY CONTROL SERUM PLANNING

The flowchart below demonstrates the simple customised QC Serum production timeline managed by Randox. We work with you to ensure a smooth process from the moment the order is placed to final delivery.



## RANDOX

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