DESIGNED TO MEET THE NEEDS OF YOUR LABORATORY
HIGH PERFORMANCE & UNIQUE TESTS

Cardiology and Lipids | Diabetes | Renal Function | Antioxidants | Clinical Chemistry
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Key: 

**UF** UNIQUE feature When you see this symbol you will know that this feature is unique to the Randox product

**NP** NICHE product When you see this symbol you will know that Randox have one of the only automated biochemistry assays available on the market
Benefits of Randox Reagents

Randox offers an extensive range of third party diagnostic reagents which are internationally recognised as being of the highest quality; producing accurate and precise results. We have an extensive test menu of 114 assays, covering over 100 disease markers including: antioxidants, diabetes, cardiology & lipid testing, drugs of abuse testing, specific proteins, therapeutic drug monitoring and veterinary testing. A wide range of formats and methods are available providing greater flexibility and choice for any laboratory size. In addition to flexible pack sizes and a comprehensive list of analyser applications, we can also provide dedicated reagent packs (Randox Easy Read and Easy Fit regents) for a wide range of chemistry analysers providing you with freedom of choice from an independent manufacturer.

Expand your test menu without expanding your lab
There is no need to buy any extra equipment in order to expand your test menu. Our reagents can be programmed onto the majority of the most common biochemistry analysers.

Bring testing in-house
With smaller kit sizes and excellent reagent stability (most are stable for 28 days on-board the analyser), you don’t have to worry about reagent wastage, allowing testing to be brought in-house.

Expand routine testing
With speciality assays for 195 of the most common clinical chemistry analysers; assays which usually require dedicated equipment (or was previously only available as an ELISA) can now be run on automated biochemistry analysers; allowing your laboratory to expand its routine test menu.

Reduce labour
Reduce your time spent on running tests through liquid ready-to-use reagents, automated methods (compared to the traditional, laborious ELISA methods used for tests such as cystatin C) and our easy-fit options.

Reduce costs
We can help create cost-savings for your laboratory through excellent reagent stability; by eliminating the need for costly re-runs through the excellent quality of products; and by offering a range of kit sizes (including smaller kit sizes for niche tests to reduce waste).

Reduce the risk of errors and have confidence in patient results
Our traceability of material and extremely tight manufacturing tolerances ensure uniformity across reagent batches reducing lot-to-lot variability. All our assays are validated against gold-standard methods, offering low CV’s and excellent precision giving you the confidence that you are sending out the correct patient results.
<table>
<thead>
<tr>
<th>H - FABP</th>
<th>Lipoprotein (a)</th>
<th>Small Dense LDL Cholesterol (sdLDL - C)</th>
<th>sPLA₂ - IIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDL2/3 Cholesterol (HDL2/3 - C)</td>
<td>Homocysteine</td>
<td>Apolipoprotein C - II</td>
<td></td>
</tr>
<tr>
<td>Apolipoprotein C - III</td>
<td>Apolipoprotein E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Heart - Type Fatty Acid - Binding Protein (H - FABP)

H - FABP is a low molecular - weight (15kD) cytoplasmic protein that is involved in the intracellular uptake and buffering of free fatty acids in the myocardium. H - FABP is a highly sensitive and early risk marker of acute coronary syndrome (ACS), detectable as early as 30 minutes following the onset of an ischaemic episode. H - FABP concentrations peak at approximately 6 - 8 hours and return to normal within approximately 24 - 30 hours. Although H - FABP has similar release kinetics to myoglobin, it is approximately 15 - 20 times more cardiac specific, making it a more effective marker of myocardial infarction.

Ordering Information

Cat. No: FB4025

R1 1 x 19ml
R2 1 x 7ml

Random H - FABP

- A unique assay, the Random H - FABP assay is the world’s first CE marked automated biochemistry test for the early detection of ACS
- Highly sensitive as the H - FABP protein is detectable as early as 30 minutes following the onset of an ischaemic episode
- Liquid ready-to-use reagents for convenience and ease-of-use
- Applications available detailing instrument specific settings for a wide range of clinical chemistry analysers
- Latex enhanced immunoturbidimetric method delivering high performance compared to traditional ELISA testing
- Dedicated H - FABP controls and calibrator available offering a complete testing package

Lipoprotein(a) (Lp(a))

Elevated levels of Lipoprotein(a) (Lp(a)), are considered to be both a causal risk factor and independent genetic marker of atherosclerotic disorders. The major challenge associated with Lp(a) measurement is the size variation of the apo(a) molecule within Lp(a). Dependent upon the size of the apo(a) in the assay calibrator, many assays under or overestimate apo(a) size in the patient sample. Numerous commercially available products suffer from apo(a) size related bias, resulting in an over estimation of Lp(a) in samples with large apo(a) molecules and an under estimation in samples with small apo(a) molecules. The antibody used in the Random method detects the complete Lp(a) molecule providing accurate and consistent results. This was proven by the IFCC who developed a gold standard ELISA reference assay and compared 22 commercially available tests. The Random Lp(a) method displayed the least (minimal) amount of apo(a) size related bias, proving it to be a superior offering.

Ordering Information

Cat. No: LP2757

R1 1 x 30ml
R2 1 x 15ml

Cat. No: LP3403

R1 1 x 10ml
R2 1 x 6ml

Cat. No: LP8054

R1 2 x 8.7ml
R2 2 x 5.8ml

Random Lp(a)

- The Random Lp(a) assay is one of the only methodologies on the market that detects the non-variable part of the Lp(a) molecule and therefore suffers minimal size related bias providing more accurate and consistent results. The Random Lp(a) kit is standardised to the WHO/IFCC reference material SRM 2B and is closest in terms of agreement to the ELISA reference method
- Five point calibrator with accuracy-based assigned target values is provided which accurately reflects the heterogeneity of isoforms present in the general population
- Measuring units available in nmol/L upon request
- Highly sensitive and specific method for Lp(a) detection in serum and plasma
- Applications available detailing instrument specific settings for a wide range of clinical chemistry analysers
- Liquid ready-to-use reagents for convenience and ease-of-use
- Lp(a) controls and calibrator available offering a complete testing package
Small - dense LDL Cholesterol (sdLDL - C)

Small - dense LDL Cholesterol (sdLDL - C) is a subtype of LDL cholesterol. All LDL transports triglycerides and cholesterol to bodily tissues but their atherogenicity varies according to size. Smaller particles such as sdLDL - C can permeate the inner arterial wall more readily and are more susceptible to oxidation, making sdLDL - C particularly atherogenic. Research has found that individuals with a predominance of sdLDL - C have a three - fold increased risk of myocardial infarction, making sdLDL - C measurement extremely valuable. sdLDL - C is a valuable screening tool of CVD risk.

### Ordering Information

<table>
<thead>
<tr>
<th>Cat. No:</th>
<th>R1 1 x 19.8ml</th>
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<tr>
<td>CH8153</td>
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<td>R2 1 x 8.2ml</td>
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<tr>
<td>562760 (U)</td>
<td>R1 1 x 18ml</td>
<td>R2 1 x 7ml</td>
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<tr>
<td>562791*(U)</td>
<td>R1 5 x 200ml</td>
<td>R2 2 x 200ml</td>
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<tr>
<td>562807*(U)</td>
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<td></td>
</tr>
</tbody>
</table>

(U) indicates for use in the USA only!

(*) indicates that both kits must be purchased together!

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sPLA₂ - IIA

sPLA₂ - IIA, a phospholipid modifying enzyme belonging to a family of pro - inflammatory enzymes linked to the formation and destabilization of atherosclerotic plaques. The sPLA₂ - IIA protein expression increases with atherosclerotic lesions. sPLA₂ - IIA is a cardiovascular marker, which aids in the prediction of coronary risk and in the prognosis of patients across different cardiac risk groups. It is a strong predictor of adverse outcomes, including: cardiovascular disease, myocardial infarction, stroke and heart failure.

### Ordering Information

<table>
<thead>
<tr>
<th>Cat. No:</th>
<th>R1 1 x 12.7ml</th>
<th>R2 1 x 12.7ml</th>
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</thead>
<tbody>
<tr>
<td>PLA8380</td>
<td></td>
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</tbody>
</table>

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Randox sdLDL - C

- **Rapid analysis** as results can be produced in as little as ten minutes, facilitating faster patient diagnosis and treatment plan implementation.
- **Direct, automated test** as the Randox sdLDL - C assay is specifically designed for use on automated analysers making the test more convenient and efficient.
- **Liquid ready-to-use reagents** for convenience and ease-of-use.
- **Applications available** detailing instrument - specific settings for a wide range of analysers.
- **Clearance method**
- **Dedicated sdLDL - C control and calibrator available** offering a complete testing package.

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Randox sPLA₂ - IIA

- **Liquid-ready-to-use reagents** for convenience and ease-of-use.
- **Latex enhanced immunoturbidimetric method** delivering high performance.
- **Dedicated controls and calibrators available** offering a complete testing package.
- **Applications available** detailing instrument - specific settings for a wide range of clinical chemistry analysers.
Homocysteine

Homocysteine is a thio-containing amino acid produced by the intracellular demethylation of methionine. Homocysteine is an independent risk factor for cardiovascular disease. High levels of homocysteine (hyperhomocysteinemia) lead to artery endothelial cell damage and reduced vessel flexibility. Research suggests the negative effect of hyperhomocysteinemia on the artery cell wall may increase an individual's risk of developing atherosclerosis. Elevated levels of homocysteine can be associated with various disease states including: cardiovascular disease, diabetes, dementia, osteoporosis, and physical performance and complications during pregnancy; making homocysteine an essential addition to a laboratory's testing panel.

<table>
<thead>
<tr>
<th>Ordering Information</th>
<th>Ranoco Homocysteine</th>
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<tbody>
<tr>
<td>Cat. No: HY4036</td>
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<tr>
<td>R1 2 x 21.7ml</td>
<td>Liquid ready-to-use reagents for convenience and ease-of-use</td>
</tr>
<tr>
<td>R2 2 x 4.6ml</td>
<td>A 2 step procedure enabling the quantification of HDL2 - C through the subtraction of HDL3 - C from total HDL - C furthering enabling the measurement of HDL3 - C</td>
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<tr>
<td></td>
<td>Open vial stability of 28 days when stored at +2°C to +8°C</td>
</tr>
<tr>
<td></td>
<td>Measuring range of 4 - 60mg/dl for the measurement of clinically important results</td>
</tr>
<tr>
<td></td>
<td>A strong correlation of r=0.995 when compared to the conventional ultracentrifugation method</td>
</tr>
<tr>
<td></td>
<td>Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers</td>
</tr>
<tr>
<td></td>
<td>Dedicated HDL3 controls and calibrator available offering the complete testing package</td>
</tr>
</tbody>
</table>

HDL2/3 Cholesterol (HDL2/3 - C)

HDL comprises of several subclass particles, which differ in their sizes, densities and components. These HDL subclasses are considered to play different roles in the progression and regression of arteriosclerosis. A prospective 29 year follow up study of 1905 men in Gofman’s Livermore Cohort found that the lowest HDL2/3 quartile, independently predicted total incident CHD when adjusted for traditional risk factors. The study further found that those within the lowest quartile for HDL2/3 were at risk of premature CHD.

<table>
<thead>
<tr>
<th>Ordering Information</th>
<th>Ranoco HDL2/3 - C</th>
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</thead>
<tbody>
<tr>
<td>Cat. No: CH10165</td>
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<tr>
<td>R1 1 x 20ml</td>
<td>Liquid ready-to-use reagents for convenience and ease-of-use</td>
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<tr>
<td>R2 1 x 7.5ml</td>
<td>A 2 step procedure enabling the quantification of HDL2 - C through the subtraction of HDL3 - C from total HDL - C furthering enabling the measurement of HDL3 - C</td>
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<td>Cat. No: CH10163</td>
<td>Open vial stability of 28 days when stored at +2°C to +8°C</td>
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<td>R1 4 x 38.2ml</td>
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<tr>
<td>R2 4 x 18.2ml</td>
<td>A strong correlation of r=0.995 when compared to the conventional ultracentrifugation method</td>
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<td>Cat. No: CH8155</td>
<td>Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers</td>
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<td>R1 1 x 20ml</td>
<td>Dedicated HDL3 controls and calibrator available offering the complete testing package</td>
</tr>
<tr>
<td>R2 1 x 10ml</td>
<td></td>
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</table>

HDL2/3 Cholesterol (HDL2/3 - C)
Apolipoprotein C - II

Apolipoprotein C - II (Apo C - II) is an amino acid protein synthesised mainly in the liver and to a lesser extent in the intestine. Apo C-II acts as a co-factor for lipoprotein lipase; an enzyme that hydrolyses triglycerides in chylomicrons and VLDL - C. Patients have been identified with hypertriglyceridemia due to a deficiency in Apo C - II which leads to an increased risk of the patient developing coronary artery disease.

Additional disease states associated with Apo C - II deficiency include chylomicronemia, xanthomas and recurrent pancreatitis.

Ordering Information
Cat. No: LP3866
R1 2 x 11ml
R2 2 x 5ml

Randox Apolipoprotein C - II

- Liquid ready-to-use reagents for convenience and ease-of-use
- Excellent sensitivity of 1.48mg/dl, ensuring depleted levels of Apo C - II are detected
- Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides for truly accurate results
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Immunoturbidimetric method
- Dedicated Apolipoprotein controls and calibrator available offering a complete testing package

Apolipoprotein C - III

Apolipoprotein C - III (Apo C - III) is an amino acid protein which circulates in plasma in association with triglyceride rich lipoproteins (chylomicrons, VLDL - C and LDL-C) and HDL-C. Apo C - III modulates the uptake of triglyceride - rich lipoproteins by the LDL receptor related protein through the inhibition of lipoprotein lipase. Elevated levels of Apo C - III are associated with both primary and secondary hypertriglyceridemia.

Genetically determined, Apo C - III deficiency in humans can increase the rate of triglyceride clearance from plasma by up to seven fold. However, elevated Apo C - III levels can be detected in many pathological conditions including: type 2 diabetes, hyperbilirubinemia, kidney malfunction and decreased thyroid function. Factors that can influence Apo C - III levels include: gender, age, menopause and genetic polymorphisms in the Apo C - III gene.

Ordering Information
Cat. No: LP3865
R1 2 x 11ml
R2 2 x 5ml

Randox Apolipoprotein C - III

- Liquid ready-to-use reagents for convenience and ease-of-use
- Excellent linearity of 21.7mg/dl for the comfortable detection of clinically important results
- Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides for truly accurate results
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Immunoturbidimetric method
- Apolipoprotein controls and calibrator available offering a complete testing package
Apolipoprotein E (Apo E) is an amino acid protein synthesised mainly in the liver but also in the brain, spleen, lungs, adrenals, ovaries, kidneys, muscle cells and in macrophages. The polymorphism of Apo E has been implicated in several diseases including cardiovascular disease and neurodegenerative diseases such as Alzheimer's.

Apo E deficiency causes high serum cholesterol and triglyceride levels and leads to premature atherosclerosis. A number of factors can affect Apo E concentrations including: genetic polymorphisms, oral contraceptive intake, puberty, BMI and age.

Ordering Information

<table>
<thead>
<tr>
<th>Cat. No:</th>
<th>Randox Apolipoprotein E</th>
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</thead>
<tbody>
<tr>
<td>LP3864</td>
<td>R1 2 x 11ml</td>
</tr>
<tr>
<td></td>
<td>R2 2 x 5ml</td>
</tr>
</tbody>
</table>

- Liquid ready-to-use reagents for convenience and ease-of-use
- Excellent measuring range of 1.04 - 12.3mg/dl, for the comfortable detection of clinically important results
- Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides for truly accurate results
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Immunoturbidimetric method
- Apolipoprotein control and calibrator available offering a complete testing package
DIABETES

Adiponectin | Fructosamine | Non - Esterified Fatty Acids (NEFA)
D - 3 - Hydroxybutyrate (Ranbut)
Adiponectin

Adiponectin is a protein hormone, produced and secreted by fat cells (adipocytes), which are normally found in reasonably high concentrations within the blood. Adiponectin regulates the metabolism of lipids and glucose influencing the body’s response to insulin and inflammation. It has an important role in a number of metabolic processes such as glucose regulation and fatty acid oxidation. Low adiponectin levels have been linked with several pathologies including metabolic syndrome, type 2 diabetes mellitus (T2DM), cancer and cardiovascular disease.

Randox Adiponectin

- Automated immunoturbidimetric assay offering a more convenient and time efficient method for adiponectin measurement compared to traditional ELISA based testing
- Liquid ready-to-use reagents for convenience and ease-of-use
- Stable until expiry when stored at +2°C to +8°C
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Dedicated Adiponectin controls and calibrator available offering a complete testing package

Ordering Information

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>R1 1 x 8.7ml</th>
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<tr>
<td>AO8154</td>
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<tr>
<td>AO8162</td>
<td>R 1 2 x 20ml</td>
<td>R2 2 x 20ml</td>
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</tbody>
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Fructosamine (Glycated Serum Protein)

Fructosamine is a mid-term indicator of diabetic control as it can provide information on a person's average blood glucose levels over the preceding 14 - 21 days. After commencing therapy, fructosamine level decrease earlier (within a week) than HbA1c (after 4 - 8 weeks) and so, it is often used to evaluate the effectiveness of medication changes and to monitor the treatment of gestational diabetes. Fructosamine is also particularly useful in situations where HbA1c cannot be reliably measured when individuals have, for example: haemolytic anaemia, thalassemia or genetic haemoglobin variants.

Randox Fructosamine (Glycated Serum Protein)

- High performance enzymatic method which offers improved specificity and reliability compared to conventional NBT - based methods. The Randox enzymatic method does not suffer from non - specific interferences unlike other commercially available fructosamine assays
- Liquid ready-to-use reagents convenience and ease-of-use
- Limited interference from Bilirubin, Glucose, Haemoglobin, Intralipid® and Triglycerides ensuring truly accurate results are produced
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Dedicated Fructosamine controls and calibrator available offering a complete testing package

Ordering Information

<table>
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<tr>
<td>FR4030</td>
<td>R 1 4 x 19.8ml</td>
<td>R2 4 x 6.9ml</td>
</tr>
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</table>
Non - Esterified Fatty Acids (NEFA)

Non - esterified fatty acids (NEFA) are molecules released from triglycerides by the action of the enzyme lipase and are transported in the blood bound to albumin. NEFA are major contributors to the body's energy supply despite representing a small proportion of the body's fat percentage. Measurement of NEFA is particularly important in diabetes where insulin deficiency results in the metabolism of fat. Levels are also frequently increased in obese patients. NEFA exerts an inflammatory effect on localised tissues. Consequently NEFA can contribute to the development of atherosclerosis.

Ordering Information

Cat. No: FA115
- R1 3 x 10ml
- R2 3 x 20ml

Randox NEFA
- Lyophilised reagents for enhanced stability
- Calibrator supplied with kit simplifying the ordering process
- Excellent measuring range of 0.072 - 2.24mmol for the comfortable detection of clinically important results
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Colorimetric method
- Control and calibrator available offering a complete testing package

D - 3 - Hydroxybutyrate (Ranbut)

D - 3 - Hydroxybutyrate is the most sensitive ketone for the diagnosis of ketosis, in particular diabetic ketoacidosis. Ketosis, a metabolic process, occurs when the body switches from glucose to predominantly fat metabolism for energy production when carbohydrate availability reaches low levels. Metabolism of fatty acids in the liver results in the production of 3 ketones: acetone, acetoacetate and D - 3 - Hydroxybutyrate. Levels of ketone bodies in the blood are elevated (ketosis) when synthesis exceeds breakdown.

Ordering Information

Cat. No: RB1007, RB1008, RB4067, RB8378
- RB1007 10 x 10ml
- RB1008 10 x 50ml
- RB4067 R1 2 x 20ml, R2 2 x 5.8ml (L)
- RB8378 R1 2 x 20ml, R2 2 x 6.1ml (L)

(L) Indicates liquid option

Randox D - 3 - Hydroxybutyrate
- Superior methodology when compared to other commercially available ketone detection tests. The nitroprusside method used in semi - quantitative dipstick tests only detects acetone and acetoacetate, not D-3 Hydroxybutyrate. Measuring only D-3-Hydroxybutyrate for ketone analysis provides more accurate, comparable and sensitive results
- Wide measuring range of 0.1 - 5.75mmol for the comfortable detection of clinically important results
- Standard supplied with kit simplifying the ordering process
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Suitable for use in serum reducing the risk of false negatives
- Enzymatic method
- Controls and calibrator available offering a complete testing package
RENEWAL FUNCTION

Cystatin C  |  Liquid Enzymatic Creatine  |  Microalbumin
**Cystatin C**

Cystatin C is a small (13 kDa) cysteine proteinase inhibitor produced at a constant rate by all nucleated cells. The small molecular weight of cystatin C allows it to be completely removed and broken down by the kidneys. Levels therefore remain steady if the kidneys are working efficiently and the Glomerular Filtration Rate (GFR) is normal. Cystatin C is a particularly useful marker of renal function in patients where creatinine measurements are not reliable e.g. individuals who are: obese, malnourished, have liver cirrhosis or reduced muscle mass. Furthermore, unlike creatinine, cystatin C does not have a ‘blind area’ - up to 50% of renal function can be lost before significant creatinine elevation occurs. Cystatin C is extremely sensitive to very small changes in GFR and is therefore capable of detecting early stage kidney dysfunction.

**Ordering Information**

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<th>Cat. No:</th>
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<tr>
<td>R2</td>
<td>2 x 6.1ml</td>
</tr>
</tbody>
</table>

**Randox Cystatin C**

- Liquid ready-to-use reagents for convenience and ease-of-use
- Extensive measuring range of 0.4 - 10mg/l, for the comfortable detection of clinically important results
- Stable until expiry when stored at +2°C to +8°C
- Latex enhanced immunoturbidimetric method
- Dedicated Cystatin C control and calibrator available for a complete testing package

**Liquid Enzymatic Creatinine**

Creatinine clearance in the kidneys provides a measure of the Glomerular Filtration Rate (GFR) and is the standard marker for renal function. The enzymatic method of creatinine measurement displays several advantages over the JAFFE method: highly specific, no interferences from endogenous creatinine as it is not involved in the pathway and eliminates the requirement for urea determination. Systemic errors from JAFFE creatinine provides unreliable renal function estimates, resulting in the risk of incorrect drug dosage adjustments, misclassification in CKD staging and incomparability of patient data.

**Ordering Information**

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<td>R2 4 x 9.5ml</td>
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<td>R1 4 x 50ml</td>
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<tr>
<td>R2 4 x 19.5ml</td>
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</table>

**Randox Liquid Enzymatic Creatinine**

- Enzymatic method offering superior specificity when compared to traditional Jaffe creatinine assays
- Liquid ready-to-use reagents for convenience and ease-of-use
- Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides, for truly accurate results and ensuring it is suitable for use with paediatric samples
- Extensive measuring range of 9 - 2517μmol/l, for the comfortable detection of clinically important results
- No sample blank required
- Controls and calibrator available for a complete testing package

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**Fig 3. Relative changes of Cystatin C and Creatinine from their upper reference limits in different degrees of renal failure**
The microalbumin assay detects very low levels of albumin in urine. The detection of albumin in urine can be an **indicator of kidney injury** which can result in irreversible damage if left untreated. Low albumin concentrations in urine (20 - 200mg/day) is the **earliest marker of renal damage** and therefore enables preventative measures to be taken. Microalbumin testing can identify individuals with **diabetic nephropathy** approximately 5 - 10 years earlier than proteinuria tests helping reduce the incidence of end stage renal disease.

### Ordering Information

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<td>MA3828</td>
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<tr>
<td>MA8056</td>
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<tr>
<td>MA8325</td>
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<td>1 x 4.6ml</td>
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</table>

### Randox Microalbumin

- **Standard supplied with kit** simplifying the ordering process
- **Immunoturbidimetric method** enabling sensitive and accurate albumin assessment
- **Liquid ready-to-use reagents** for convenience and ease-of-use
- **Excellent sensitivity of 5.11 mg/l**, ensuring even low albumin concentrations are detected
- **Applications available** detailing instrument-specific settings for a wide range of clinical chemistry analysers
- **Dedicated microalbumin controls available** offering a complete testing package
<table>
<thead>
<tr>
<th>ANTIOXIDANTS</th>
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<tbody>
<tr>
<td>Total Antioxidant Status (TAS)</td>
<td>Glutathione Peroxidase (Randox Ransel)</td>
</tr>
<tr>
<td>Soluble Transferrin Receptor (sTfR)</td>
<td>Superoxide Dismutase (Randox Ransod)</td>
</tr>
</tbody>
</table>
Glutathione Peroxidase (Randox Ransel)

Ransel measures glutathione peroxidase which has a direct correlation with selenium levels. Selenium is an essential trace element involved in the aetiology of a number of diseases. At normal concentrations selenium has a protective effect against several disease states however, this protection is lost at lower concentrations. Conversely selenium can be toxic at high concentrations, therefore, it is important to monitor selenium levels to ensure they are kept within the normal range. The risk factors associated with abnormal selenium concentrations include: age, diet, smoking, stress, autoimmune diseases and chemotherapy.

Ordering Information

<table>
<thead>
<tr>
<th>Cat. No:</th>
<th>Description</th>
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<tbody>
<tr>
<td>RSS04</td>
<td>8 x 6.5ml</td>
</tr>
<tr>
<td>RSS05</td>
<td>8 x 10ml</td>
</tr>
</tbody>
</table>

Randox Ransel

- Enzymatic method enabling sensitive and accurate glutathione peroxidase assessment
- Excellent sensitivity for the comfortable detection of clinically important results
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Dedicated Ransel controls and calibrator available offering a complete testing package

Total Antioxidant Status (TAS)

The antioxidant defence system has many components. A deficiency in any of these components can cause a reduction in the overall antioxidant status of an individual. Reduction in total antioxidant status (TAS) has been implicated in a number of disease states including: heart disease, rheumatoid arthritis, diabetes and cancer. TAS analysis is also useful in relation to retinopathy and age-related conditions. These can be monitored to promote supplementation and disease prevention.

Ordering Information

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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>NX2332</td>
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</table>

Randox TAS

- Suitable for automation whereas other commercially available products are based on ELISA technology which does not offer the same level of convenience and efficiency as the Randox TAS assay
- Standard supplied with kit simplifying the ordering process
- Excellent measuring range of 0.21 - 2.94mmol/l enabling the comfortable detection of clinically important results
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Colorimetric method
- Dedicated TAS control available offering a complete testing package

NP
Glutathione Reductase

Glutathione reductase is required for the regeneration of reduced glutathione which is important for normal cellular metabolism. This enzyme is often discussed in association with glutathione peroxidase, which requires reduced glutathione for activation. Glutathione reductase is responsible for maintaining levels of reduced glutathione which has many important intracellular functions within bodily cells. Glutathione plays a role in protein folding and the maintenance of reduced pools of vitamin C and E. Depleted levels of glutathione reductase can lead to haemolysis.

Ordering Information

Randox Glutathione Reductase

- Lyophilised reagents for enhanced stability
- Excellent measuring range of 9.69 - 387U/l enabling the comfortable detection of clinically important results
- Suitable for use with a variety of sample types including: serum, plasma and erythrocytes
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- UV method
- Dedicated glutathione reductase control and calibrator available offering a complete testing package

Soluble Transferrin Receptor (sTfR)

Transferrin transports iron around the body, donating it to bodily cells by interacting with a specific membrane receptor, the transferrin receptor (TfR). A soluble form of TfR (sTfR) has been identified in animal and human serum, circulating freely in the blood. sTfR is a marker of iron status. In iron deficiency anaemia, sTfR levels are significantly increased, however, remain normal in the anaemia of inflammation. As such, sTfR measurement is useful in the differential diagnosis of microcytic anaemia.

Ordering Information

Randox sTfR

- Excellent correlation coefficient of r=0.977 when compared against other commercially available methods
- Excellent measuring range of 0.5 - 11.77mg/l, for the comfortable detection of clinically important results
- Liquid ready-to-use reagent for convenience and ease-of-use
- Latex enhanced immunoturbidimetric method
- Stable to expiry when stored at +2°C to +8°C
- Dedicated sTfR control and calibrator available offering a complete testing package
Superoxide Dismutase (Randox Ransod)

Superoxide dismutase (SOD) catalyses the dismutation of superoxide into oxygen and hydrogen peroxide, consequently providing protection against superoxide which is one of the most common free radicals in the body. The enzyme acts by repairing and/or reducing the amount of damage done to cells. Ransod (Randox Superoxide Dismutase) can be used in the diagnosis of diseases associated with abnormal SOD levels including, neurological disorders such as Amyotrophic Lateral Sclerosis (ALS). SOD can also be used to treat various ailments including arthritis, burns and inflammatory diseases. Research has shown SOD levels to decrease and levels of free radicals to increase in the body with age, suggesting SOD plays a major role in the aging process.

Ordering Information

| Cat. No: | SD125 | 5 x 20ml |

Randox Ransod

- Lyophilised reagents for enhanced stability
- Standard supplied with kit simplifying the ordering process
- Multiple analytical uses including: clinical, veterinary, sports, cosmetics and pharma
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Colorimetric method
- Dedicated superoxide dismutase (Randox Ransod) control available offering a complete testing package

Fig 4: Pathological effects associated with SOD gene mutation or SOD deficiency

- Cardiovascular diseases (CVD)
- Cerebral vascular hypertrophy and vascular dysfunction in hyper-homocysteinemia
- SOD gene mutation/ enzyme deficiency
- Weak Immune response
- Neurodegenerative disorders, for example familial amyotrophic lateral sclerosis (FALS)
- Accelerated ageing process
CLINICAL CHEMISTRY
Aldolase | Vanadate Oxidation Bilirubin | 5th Generation Bile Acids
Glucose - 6 - Phosphate Dehydrogenase (G6PDH) | Immunoglobulin E (IgE) | Copper | Zinc
Aldolase

Aldolase is an enzyme responsible for converting glucose into energy. In humans the approximate normal range for aldolase is 1 - 7.6U/L. Elevated levels are detectable in the blood of individuals with skeletal muscle damage and liver disease. In skeletal muscle diseases, including muscular dystrophy; damaged cells lyse, releasing aldolase into the blood. Levels also rise in conditions such as injury and gangrene, however remain normal in situations where weakness is caused by a neurological disease e.g. multiple sclerosis.

Ordering Information

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<tr>
<th>Cat. No:</th>
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Randox Aldolase

- Lyophilised reagents for enhanced stability
- Excellent measuring range of 1.73 - 106U/L for the comfortable detection of clinically important results
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- UV method
- Dedicated aldolase controls and calibrator available for a complete testing package

Vanadate Oxidation Bilirubin

Bilirubin levels are extremely valuable for the diagnosis and monitoring of liver diseases including: hepatitis, cirrhosis and gallstones. Other conditions characterised by elevated bilirubin concentrations include haemolytic anaemia and sickle cell disease. It is vital that bilirubin levels are tested in new-borns where jaundice has not resolved itself within 8 - 14 days, as elevated levels can indicate a problem with the formation of the bile ducts or irregular metabolism in the liver.

Ordering Information

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<td>R2 4 x 6ml (Direct)</td>
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<td>R2 4 x 8ml (Total)</td>
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<td>R2 4 x 20ml (Total)</td>
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<th>Cat. No:</th>
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<td>R2 4 x 20ml (Direct)</td>
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<table>
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<td>R2 4 x 8ml (Total)</td>
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<table>
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<td></td>
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<td>R2 4 x 8ml (Direct)</td>
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Randox Vanadate Oxidation Bilirubin

- The superior vanadate oxidation methodology does not suffer from interferences from non-conjugated bilirubin unlike the diazo-based methods
- Limited interference from Haemoglobin and Lipids
- Liquid ready-to-use reagents for convenience and ease-of-use
- No pre-step required whereas other commercially available bilirubin assays may involve a pre-step, requiring two assay components to be mixed together. The Randox vanadate oxidation method eliminates this step, increasing testing efficiency
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Stable until expiry when stored at +2°C to +8°C
- Controls and calibrator available offering a complete testing package
**5th Generation Bile Acids**

Bile acids is a highly sensitive marker of liver function, enabling the early confirmation of liver disease. Bile acids is also the most accurate method for diagnosing obstetric cholestasis in pregnant women, a common liver condition affecting women during the second and third trimester of pregnancy. The condition restricts the flow of bile through the gallbladder resulting in a build-up of bile acids in the liver. Consequently bile acids leak into the bloodstream where they are detected at increased levels.

**Ordering Information**

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<tr>
<th>Cat. No:</th>
<th>BI7982</th>
<th>R1 6 x 50ml</th>
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<tr>
<td></td>
<td>BI3863</td>
<td>R1 2 x 18ml</td>
<td>R2 2 x 8ml</td>
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<tr>
<td></td>
<td>BI8150</td>
<td>R1 2 x 17.7ml</td>
<td>R2 2 x 8.9ml</td>
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**Randox 5th Generation Bile Acids**

- **Superior methodology** utilising an advanced enzyme cycling method which displays outstanding sensitivity and precision when compared to traditional enzymatic based tests
- **Liquid ready-to-use reagents** for convenience and ease-of-use
- **Excellent linearity up to** 188μmol/l. The normal upper range of Bile Acids in a fasting serum sample is 10μmol/l
- **Applications available** detailing instrument-specific settings for a wide range of clinical chemistry analysers
- **Controls and calibrator available** offering a complete testing package

---

**Glucose - 6 - Phosphate Dehydrogenase (G6PDH)**

G6PDH is a cytosolic enzyme located on the X-chromosome of bodily cells. G6PDH is involved in the normal processing of carbohydrates. It also plays a critical role in red blood cells, protecting them from damage and premature destruction. A deficiency in the G6PDH enzyme is not enough to promote the onset of haemolysis, but rather it is triggered by additional factors such as medications to treat malaria and favism which initiate oxidative stress and RBC destruction. If the bone marrow cannot compensate for the reduction of red blood cells, **haemolytic anaemia** can occur.

**Ordering Information**

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<tr>
<th>Cat. No:</th>
<th>PD410</th>
<th>R1 1 x 100ml</th>
<th>R2 1 x 2ml (UV)</th>
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<tr>
<td></td>
<td>PD2616</td>
<td>750T (Qualitative screen test)</td>
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</tr>
</tbody>
</table>

**Randox G6PDH**

- **Superior stability** of 4 weeks once reconstituted and stored at +2°C to +8°C. Many other commercially available assays offer just 5 days stability, leading to greater product wastage
- **Minimal interference** as the sample pre-wash step included in the Randox G6PDH kit serves to purify the sample, leading to no known interferences being observed
- **Lyophilised reagents** for enhanced stability
- **Applications available** detailing instrument-specific settings for a wide range of clinical chemistry analysers
- **Dedicated G6PDH control available** offering a complete testing package
Immunoglobulin E (IgE) is normally found in the blood in trace amounts. IgE is an antibody released by the immune system as a defence mechanism when it believes the body is at risk. IgE is used as a guide in the diagnosis of allergic reactions, including: asthma, hay fever, dermatitis and food allergies. It may also be tested in parasitic infections. Although testing for IgE will not diagnose a specific allergy, increased concentrations will indicate that an allergic response has occurred, facilitating further investigation.

**Ordering Information**

<table>
<thead>
<tr>
<th>Cat. No:</th>
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<tbody>
<tr>
<td>IE7308</td>
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<td>1 x 5ml</td>
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<tr>
<td>IE8152</td>
<td>1 x 8.7ml</td>
<td>1 x 5.7ml</td>
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</table>

**Randox IgE**

- Liquid ready-to-use reagents for convenience and ease-of-use
- Extensive measuring range of 19.6 - 1007 IU/ml, for the comfortable detection of clinically important results
- Limited interference from Bilirubin, Haemoglobin, Intralipid® and Triglycerides producing highly accurate results
- Applications available detailing instrument - specific settings for a wide range of clinical chemistry analysers
- Immunoturbidimetric method
- Dedicated IgE calibrator for automation
- Controls available offering a complete testing package

Copper is an essential trace element found in human nutrition and is a component of many metalloenzymes. Copper is important for a number of functions including the creation of connective tissues, production of energy in cells as well as nervous system and brain functions.

Copper testing is predominantly carried out to diagnose Wilson Disease, an inherited disorder which is associated with excess copper storage in the brain, liver and other organs. Wilson Disease prohibits the liver from safely storing and excreting copper, resulting in it seeping out of the liver; building up in the eyes, kidneys and brain causing nerve damage, and if left untreated, it can be fatal.

Copper deficiency can also occur, however, this is less common. Menkes Disease is a genetic condition which commonly occurs in premature babies, resulting in bone abnormalities and fractures. Menkes Disease is characterised by sparse, kinky hair, developmental problems and seizures as young children with this disorder are unable to absorb enough copper.

**Ordering Information**

<table>
<thead>
<tr>
<th>Cat. No:</th>
<th>R1</th>
<th>R2</th>
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</thead>
<tbody>
<tr>
<td>CU2340</td>
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<td>1 x 30ml</td>
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</table>

**Randox Copper**

- Stable for 2 weeks when stored at +2°C to +8°C, minimising reagent waste
- Lyophilised reagents for enhanced stability
- Standard supplied with kit simplifying the ordering process
- Extensive measuring range of 6.6 - 86 µmol/l, for the comfortable detection of clinically important results
- Colorimetric method
- Controls available offering a complete testing package
Zinc

Zinc is an essential trace metal which is required for a number of functions including cell and enzyme production, the metabolism of carbohydrates, fat and protein from dietary intake and wound healing. Zinc deficiency is often the result of a low dietary intake and can lead to a number of problems including: impaired immune and cognitive functions, foetal growth and development problems during pregnancy, liver and kidney disease, diabetes and malabsorption syndrome.

**Ordering Information**

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<tr>
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<td>1 x 250ml (with Deproteinisation)</td>
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<tr>
<td>ZN2607</td>
<td>6 x 50ml (Deproteinising Solution)</td>
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</table>

**Randomo Zinc**

- **Limited interference** from Haemoglobin, Bilirubin, Triglycerides and Intralipid®
- **Range of suitable sample types** including: serum, plasma and urine
- **Standard supplied with kit** simplifying the ordering process
- **Liquid ready-to-use reagents** for convenience and ease-of-use
- **Applications available** detailing instrument - specific settings for a wide range of clinical chemistry analysers
- **Colorimetric method**
- **Controls available** offering a complete testing package

**References**


Please note: performance information presented was achieved using the Randomo RX series of clinical analysers. Results may vary depending on the analyser used.
Portfolio of Reagents

HIGH PERFORMANCE & UNIQUE TESTS (DETAILS IN BROCHURE)

- Adiponectin
- Aldolase
- Apolipoprotein C - II
- Apolipoprotein C - III
- Apolipoprotein E
- Bile Acids
- Direct Bilirubin
- Total Bilirubin
- HDL3 Cholesterol
- sdLDL Cholesterol
- Copper
- Creatinine
- Cystatin C
- Fructosamine (Glycated Serum Protein)
- G6PDH
- Glutathione Reductase
- Heart - type Fatty Acid Binding Protein (H - FABP)
- Homocysteine
- D - 3 - Hydroxybutyrate (Ranbut)
- IgE
- Lipoprotein (a)
- Microalbumin
- Non - Esterified Fatty Acids (NEFA)
- sPLA₂ - IIA
- Soluble Transferrin Receptor (sTfR)
- Superoxide Dismutase (Ransod)
- Total Antioxidant Status (TAS)
- Zinc

OTHER ASSAYS AVAILABLE FROM RANDOX

- Alanine Aminotransferase (ALT)
- Albumin
- Alkaline Phosphatase
- Ammonia
- Amylase
- Amylase (Pancreatic)
- Anti - Streptolysin O (ASO)
- Apolipoprotein A - I
- Apolipoprotein A - II
- Apolipoprotein B
- Aspartate Aminotransferase (AST)
- β₂ Microglobulin
- Calcium
- Carbamazepine
- Ceruloplasmin
- Chloride
- Total Cholesterol
- HDL Cholesterol
- LDL Cholesterol
- Cholinesterase
- CK - MB
- CK - NAC
- CO2 Total
- Complement C3
- Complement C4
- CRP
- CRP (Canine)
- CRP (Full Range)
- CRP (High Sensitivity)
- Digoxin
- Ferritin
- Gamma GT
- Gentamicin
- GLDH
- Glucose
- Glutamate
- Glutamine
- Glutathione Peroxidase (Ransel)
- Glycerol
- Haemoglobin
- Haptoglobin
- HbA1c
- HbA1c II
- IgA
- IgG
- IgM
- Iron
- L - Lactate
- Lactate Dehydrogenase (L-P)
- Lactate Dehydrogenase (P-L)
- Lipase
- Lithium
- Magnesium
- Myoglobin
- Myoglobin
- Phenobarbital
- Phenytoin
- Phosphorus
- Potassium
- Pregnancy Test
- Rheumatoid Factor (RF)
- Sodium
- Syphilis
- Total Iron Binding Capacity (TIBC)
- Total Protein
- Transferrin
- Transthyretin (Prealbumin)
- Triglycerides
- Urea
- Uric Acid
- Urinary Protein
- Valproic Acid
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