

A microscopic view of several red blood cells, which are biconcave discs, scattered across the top half of the page. The cells are shown in various orientations and positions, some appearing more prominent than others. The background is white, making the red cells stand out.

LDL CHOLESTEROL

What is LDL Cholesterol?

LDL cholesterol refers to Low Density Lipoproteins (LDL), which are synthesised in the liver by the action of various lipolytic enzymes on triglyceride rich Very Low-Density Lipoproteins (VLDLs). LDL cholesterol is often referred to as 'bad cholesterol', transporting cholesterol to the tissues and linking to the development of atherosclerotic lesions. Accurate measurement of LDL cholesterol is therefore of vital importance in therapies which focus on lipid reduction to prevent or reduce the progress of atherosclerosis and to avoid plaque rupturing. It is recommended that a patient gets tested when aged 40 either as part of a routine cardiovascular health check, if they are already thought to be at risk of cardiovascular disease (CVD) or to monitor their response to treatments which lower LDL cholesterol.

Did You Know?

Cardiovascular disease is the number one cause of death globally, with an estimated 17.7million people died from CVDs in 2015.

Key Features and Benefits

- Superior direct clearance methodology – ensuring truly accurate results are delivered.
- Liquid ready-to-use reagents – convenience and ease of use.
- Extensive measuring range – of 0.189 – 22.2 mmol/l for measurement of clinically important results.
- Direct Clearance Method Benefits of Randox Direct Clearance Method.
- Requires no sample pre-treatment – Most commercially available detergents and buffering systems produce varying results, leading to differences in assay performance. The Randox LDL cholesterol assay requires no sample pre-treatment and displays excellent correlation to both the ultracentrifugation and precipitation methods.
- Excellent precision – Our LDL assay retains its precision even at high levels of triglycerides.
- Minimal interference – Our advanced reagent formulation enables rapid clearance of turbidity resulting in minimal interference from patient samples.
- Does not suffer from inaccuracy of the Friedewald Equation – which is only accurate if triglyceride levels are <400mg/dl, chylomicrons are not present, and the sample does not contain beta-VLDL.

Useful links

Download our [Reagents Brochure](#) for information on a wide range of clinical assays from Randox.

Contact us via our [enquiry form](#)

Visit our Randox Store www.store.randox.com to purchase Randox Reagents and more.