



## What is HDL-3

HDL comprises of several subclass particles, which differ in their sizes, densities and components: There are two kinds of HDL2, and three kinds of HDL3. These HDL subclasses are considered to play different roles in the progression and regression of arteriosclerosis. HDL3-C is a smaller and denser subfraction of the HDL particle.

Clinical significance Standard tests for cholesterol, HDL, LDL and triglyceride levels only detect approximately 20% of all coronary artery disease patients. The other 80% can only be identified by differentiating subgroups and carrying out more detailed lipid testing. Evidence from analysis of the TRIUMPH study of 2,465 acute MI patients, and IHCS study of 2,414 patients who underwent coronary angiography, determined that HDL3 was independently associated with a 50% greater risk for MI in each study.

## Randox HDL3 assay

Randox HDL3 is an automated assay for the quantitative determination of HDL3 cholesterol in human serum or plasma. Conventional methods for the determination of HDL2 and HDL3 in plasma involve ultracentrifugation and gradient gel electrophoresis. These methods are, however, unsuitable for routine analysis of large numbers of samples, since they require complicated, time consuming techniques. The HDL3-EX "SEIKEN" is a fully automated homogeneous assay for the quantification of HDL3-C.

## Randox complete cardiac risk profile

As clinical studies have shown, traditional biomarkers for lipids only give a limited overview of a person's lipid profile and as a result their risk of cardiovascular events. With cardiovascular issues on

the rise globally, the need to encourage more extensive lipid profiling is on the increase, truly identify the risk of and prevent disease.

## Randox HDL3 Cholesterol

- Liquid ready-to-use
- Available on most automated biochemistry analysers
- A 2-step procedure based on patented technology from Denka Seiken
- Open vial stability of 28 days when stored at 2-8°C
- Dedicated controls and calibrators available
- Measuring range of 4 – 60mg/dl
- Demonstrates a strong correlation with the conventional Ultracentrifugation Method allows for quantification of HDL2-C by the subtraction of HDL3-C from total HDL-C
- Allows for quantification of HDL2-C by the subtraction of HDL3-C from total HDL-C
- The HDL3 assay measures Total HDL3

## Useful links

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

[Contact us via our enquiry form](#) and we will get back to you.

Buy online via our Randox Store [www.store.randox.com](http://www.store.randox.com).