

HDL3

CHOLESTEROL

AUTOMATED ASSAY FOR THE QUANTITATIVE DETERMINATION
OF HDL3 CHOLESTEROL IN HUMAN SERUM OR PLASMA

TEST HDL3-C FOR A MORE COMPLETE CARDIAC RISK PROFILE

WHAT IS HDL3-C?



HDL3 (High Density Lipoprotein 3 Cholesterol) is a smaller, more dense subfraction of the HDL particle.

CLINICAL SIGNIFICANCE



Several lines of evidence suggest that measuring HDL3-C better reflects CHD risk than measurement of total HDL, making it a significant independent risk biomarker for better risk profiling.

CARDIAC RISK PROFILE



The need for a more specific and definitive lipid profiling is on the increase, to truly identify the risk of disease and provide the necessary tools to prevent and reduce the risks.



RANDOX
REAGENTS

? WHAT IS HDL3-C?

HDL comprises of several subclass particles, which differ in their sizes, densities and components: There are two kinds of HDL2-C, and three kinds of HDL3-C. These HDL subclasses

are considered to play different roles in the progression and regression of arteriosclerosis. HDL3-C is a smaller and more dense 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.

Several clinical studies indicate that measuring these HDL subclasses better reflects primary and secondary CHD risk than measurement of total HDL, making it a significant

independent biomarker for better risk profiling.

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.**¹



RANDOX COMPLETE CARDIAC RISK PROFILE

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

With CVD and associated comorbidities on the rise globally, extensive lipid profiling must increase, to truly identify and assess, enabling proper and relevant treatment.

RANDOX HDL3 CHOLESTEROL

- Liquid ready-to-use
- Automated biochemistry assay
- A 2 step procedure based on patented technology from Denka Seiken
- Open vial stability of 28 days when stored at +2 to +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
- Measures total HDL3

RANDOX RANGE OF ROUTINE AND NOVEL CARDIAC ASSAYS

Adiponectin	H-FABP
Apolipoprotein A-I	Homocysteine
Apolipoprotein A-II	hsCRP
Apolipoprotein B	LDL Cholesterol
Apolipoprotein C-II	Lipoprotein (a)
Apolipoprotein C-III	sLDL Cholesterol
Apolipoprotein E	sPLA ₂ -IIA*
HDL Cholesterol	Total Cholesterol
HDL3 Cholesterol	Triglycerides
TxBCardio™ (11dhTxB ₂)	

ORDERING INFORMATION

HDL3 Reagent: CH10165 - R1 1 x 20ml, R2 1 x 7.5ml
HDL3 Reagent: CH10163 - R1 4 x 38.2ml, R2 4 x 18.2ml
HDL3 Calibrator: CH10164 - 5 x 1ml
HDL3 Control level 2: CH10169 3 x 1ml
HDL3 Control level 3: CH10170 3 x 1ml

1. Martin SS, Khokhar AA, May HT, Kulkarni KR, Blaha MJ, Joshi PH, Toth PP, Muhlestein JB, Anderson JL, Knight S, Li Y, Spertus JA, Jones SR, Lipoprotein Investigators Collaborative (LIC). HDL cholesterol subclasses, myocardial infarction, and mortality in secondary prevention: the Lipoprotein Investigators Collaborative. *European Heart Journal*. 1:36 (1), p22-30 (2015).

All assays available for use on most automated biochemistry analysers

Contact us for further information

*These items are coming soon

Not all products are available for diagnostic use in all countries.
Some products may be for research use only in the USA

+44 (0) 28 9442 2413
randox.com/hdl3
reagents@randox.com