



## CARDIOVASCULAR COMPREHENSIVE 2 - Test Code 4027



Turnaround Time : 7-10 Business days



Specimen Type:  
Cardiovascular Kit

### Description

The conventional risk factors for cardiovascular disease (CVD) include hypertension, smoking, diabetes mellitus, high cholesterol, high triglycerides, and low HDL cholesterol. However, the presence of only one of these factors has a low positive predictive value, and a significant number of cardiovascular events still occur in individuals without these established risk indicators (Parhofer & Laufs, 2023). The most advanced strategy for coronary risk assessment is therefore to combine the information of several risk factors. This 'multi-marker' approach can enhance risk stratification, identifying those individuals with a moderate baseline risk who might benefit from aggressive risk reduction strategies. The Liposcreen component separates and quantifies all lipoprotein sub-fractions including the 'large', less atherogenic LDL particles and the 'small', highly atherogenic LDL particles (Chary et al., 2023).

A significant number of heart attack patients have normal cholesterol levels, while many individuals with high cholesterol do not experience cardiovascular events. Individual differences exist in particular with respect to the LDL levels and, more importantly, in the size distribution of the LDL particles (Chary et al., 2023). The amount of cholesterol a patient has is less important than the type of cholesterol that is elevated and the size distribution of the cholesterol particles. These factors are crucial for both risk assessment and determining the appropriate therapy.

### Whats included?

- Cholesterol
- Triglycerides
- HDL, LDL, & ratios
- Fasting Glucose
- Homocysteine
- Apolipoproteins A & B
- Lipoprotein (a)
- Fibrinogen
- hsCRP
- LIPOSCREEN LDL subfractions (x7)

### Conditions and Symptoms

- Chest pain
- Shortness of breath
- Fatigue
- Muscle weakness and cramping
- Numb or cold extremities
- Irregular heartbeat
- High Blood Pressure

### Complementary Testing

- Glycosylated Haemoglobin (HbA1c) (Test code 6006)
- NutriSTAT (Test code 5005)

### Accreditations Include:

- NATA ISO 15189 – Requirements for Quality and Competence in Medical Laboratories\*
- CLIA – Clinical Laboratories Improvement Amendments\*



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\*See NATA and CLIA website for further details