



## LIPOSCREEN LDL SUBFRACTIONS & OXIDISED LDL & HDL SUBFRACTIONS - Test Code 4032



Turnaround Time : 7-10 Business days



Specimen Type: SST Blood

### Description

The LipoScreen test provides an in-depth analysis of both low-density lipoprotein (LDL) and high-density lipoprotein (HDL) subfractions, as well as the measurement of oxidised LDL (oxLDL). This provides a comprehensive assessment of cardiovascular health beyond standard lipid panels.

LDL particles are evaluated for size and density, with smaller, denser LDL being more atherogenic and linked to an increased risk of atherosclerosis. In contrast, larger, buoyant LDL particles are associated with a lower risk of heart disease (Chary et al., 2023). Similarly, HDL is often referred to as "good cholesterol," and its subfractions are vital for assessing its protective effects against cardiovascular disease. Larger, more effective HDL particles help to remove cholesterol from the arteries, whereas smaller HDL may be less effective in this role (Franczyk et al., 2021).

The presence of oxidised LDL is also critical, as it contributes to the inflammatory processes that lead to plaque formation in arteries (Khatana et al., 2020). Elevated levels are associated with a higher risk of cardiovascular events, making this measurement essential for individuals with a family history of heart disease or other risk factors. This comprehensive panel supports informed health decisions and enables personalised management of cardiovascular health.

### Whats included?

- Cholesterol
- Triglycerides
- HDL & LDL
- Lipoprotein (a)
- VLDL & IDL,
- LDL subfractions (x7)
- Oxidised LDL
- HDL subfractions (x3)

### Conditions and Symptoms

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

### Complementary Testing

- Methylation Profile (Test Code 5101)
- Homocysteine (Test Code 4007)

### 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