

# Lipoprotein Fractionation, NMR with Lipids

**CPT Code:** 83704, 80061

**Order Code:** 37849

**Includes:** LDL Particle Number (LDL-P), Small LDL Particle Number (Small LDL-P), LDL Size, HDL Particle Number (HDL-P), Large HDL Particle Number (Large HDL-P), HDL Size, Large VLDL Particle Number (Large VLDL-P), VLDL Size, Total Cholesterol, HDL Cholesterol, Triglycerides, Calculated LDL Cholesterol, Cholesterol/HDL-C, Non-HDL Cholesterol, TG/HDL-C

**ABN Requirement:** No

**Specimen:** Serum

**Volume:** 4.0 mL

**Minimum Volume:** 2.0 mL

**Container:** Red Top (no gel barrier) tube

## Collection:

1. Collect and label sample according to standard protocols.
2. Gently invert tube 5 times immediately after draw. DO NOT SHAKE.
3. Allow blood to clot 30-60 minutes.
4. Centrifuge for 10 minutes.
5. Aliquot serum into a labeled transport tube labeled as "Red Top Serum" and cap tightly.
6. Store and transport refrigerated. It is acceptable to store frozen and ship refrigerated. Do not ship frozen on dry ice.

**Fasting:** Patient should be fasting 12 hours.

**Transport:** Store serum at 2°C to 8°C after collection and ship the same day per packaging instructions included with the provided shipping box.

## Stability:

**Ambient (15-25°C):** Unacceptable

**Refrigerated (2-8°C):** 7 days

**Frozen (-20°C):** 10 days

**Deep Frozen (-70°C):** 28 days

**Causes for Rejection:** Specimens other than serum; improper labeling; samples not stored properly; samples older than stability limits; gross hemolysis; gross lipemia; serum collected using a gel barrier tube

**Methodology:** Nuclear Magnetic Resonance (NMR), Photometric, Calculations

**Turn Around Time:** 3 days

**Relative Risk Range:**

**Clinical Significance:** The Lipoprotein Fractionation NMR test is used to help assess the risk for cardiovascular disease (CVD) in patients with intermediate or high risk based on traditional or emerging risk factors, and to assess therapeutic response in patients undergoing lipid-lowering therapy, by quantification of the number and size of lipoprotein particles. The lipid panel is used, along with other test, during routine assessment to determine an individual's risk of cardiovascular disease. A lipid panel can also be used to monitor the efficacy of lifestyle interventions or medications.

*The CPT codes provided are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payer being billed.*