Legacy Laboratory Services

NMR LipoProfile®

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In addition to traditional Lipid Profile testing, Legacy Laboratory Services offers the NMR LipoProfile® test. The Lipid Profile is sufficient to screen most patients for cardiac risk. However, the NMR LipoProfile® is useful in a subset of patients who have signs and symptoms of cardiovascular involvement, which is unexplained by the traditional screening method.

NMR LipoProfile® detects LDL particles (LDL-P), which carry cholesterol in the blood and can build up on artery walls. The NMR LipoProfile® test uses nuclear magnetic resonance (NMR) spectroscopy to make direct measurements of both LDL particle numbers and sizes. The Lipid Profile reports the concentration of total, HDL, and LDL (calculated cholesterol).

NMR LipoProfile® is useful in a subset of patients.

Test Name	Lipid Profile	NMR LipoProfile®
Ordering Mnemonic	LIPR	NMR LIPO
Patient Preparation	Patient should fast for 8-14 hours.	Patient should fast for 12 hours, but not required.
Collect	Serum or Plasma, one 5 mL gold (SST), 7 mL red or 3 mL mint green (lithium heparin, PST) top tube	Serum or plasma, one LipoProfile® black top SST, 7 mL red (no gel) or two 5 mL lavender top (EDTA) tubes
Handling	Allow serum to clot completely at room temperature (minimum: 30 minutes). Separate serum or plasma from cells before transport. Include age and sex of patient on requisition.	**LipoProfile Black SST**: Centrifuge SST and send the entire tube. Do not aliquot. **Red & Lavender Tubes:** Allow serum to clot completely at room temperature (minimum: 30 minutes). Centrifuge and aliquot serum or plasma from cells before transport.
Preferred Volume	0.5 mL serum or plasma	4 mL serum or plasma
Minimum Volume	0.2 mL serum or plasma	2 mL serum or plasma
Transport	Refrigerated (2-8°C)	**Critical** Refrigerated (2-8°C)
Rejection Criteria	Grossly hemolyzed specimens	Specimens drawn in gold top (SST) tubes and refrigerated specimens greater than 10 days old
Stability	Ambient: 24 hours	Ambient: Unacceptable
	Refrigerated: 7 days	Refrigerated: 10 days
	Frozen: 3 months	Frozen: Unacceptable

How to Order:

To add the NMR LipoProfile® test to your requisition, please contact your Legacy Diagnostic Field Representative at 1-877-270-5566.

For additional information, contact:

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