



# Test Definition: NMRLP

Nuclear Magnetic Resonance Lipoprotein Profile, Serum

**Reporting Title:** NMR Lipoprotein Profile, S

**Performing Location:** Mayo Clinic Laboratories - Rochester Main Campus

**Specimen Requirements:**

**Patient Preparation:**

1. **Fasting: 12 hours, required;** On night before examination, evening meal should be eaten before 6 p.m. and should contain no fatty foods.
2. Patient must not consume any alcohol for 24 hours before the specimen is collected.

**Collection Container/Tube:** Red top (serum gel/SST are **not acceptable**)

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 1.5 mL

**Collection Instructions:**

1. Allow isopropyl alcohol (from phlebotomy site prep) to dry thoroughly before venipuncture.
2. Centrifuge and aliquot serum into a plastic vial.

**Forms:**

If not ordering electronically, complete, print, and send a [Cardiovascular Test Request Form](#) (T724) with the specimen.

Specimen Type	Temperature	Time	Special Container
Serum Red	Refrigerated (preferred)	7 days	
	Ambient	8 hours	
	Frozen	14 days	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
606167	LDL Particles, S	Alphanumeric	nmol/L	54434-6
606168	HDL Particles, S	Alphanumeric	mcmol/L	49748-7
606169	LDL Cholesterol (NMR), S	Alphanumeric	mg/dL	2089-1

LOINC® and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**

83704

**Reference Values:**

> or =18 years:

LDL Particles:

Desirable: <1,000 nmol/L

Above Desirable: 1,000-1,299 nmol/L

Borderline high: 1,300-1,599 nmol/L

High: 1,600-2,000 nmol/L

Very high: > or =2,000 nmol/L

HDL Particles:

Male: >30 mcmol/L

Female: >35 mcmol/L

LDL Cholesterol (NMR):

Desirable: <100 mg/dL

Above Desirable: 100-129 mg/dL

Borderline high: 130-159 mg/dL

High: 160-189 mg/dL

Very high: > or =190 mg/dL

Reference values have not been established for patients younger than 18 years of age.