



# LDL Cholesterol

**Liquid Stable Reagent**  
**Precipitation /Enzymatic method**  
**Store at 2-8°C**

## PRINCIPLE

LDL are precipitated by heparin at their isoelectric point (pH 5.04) after centrifugation (HDL) and (VLDL) remain in supernatant.

## REFERENCE VALUES

	mmol/l	mg/dl
No treatment required	<3.9	<150
Suspect range	3.9-4.9	150-190
Treatment required	>4.9	>190

These ranges are given for orientation only, each laboratory should establish its own normal ranges.

## SAMPLES

Serum or heparin plasma.

## REAGENTS

**R<sub>1</sub> :**

Heparin	50.000	IU/L
Sodium citrate	0.064	mol/L

**R<sub>2</sub> :**

Standard	50	mg/dl
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## PROCEDURE

Sample	100 µl
Reagent R1	1.0 ml

Mix well, allow to stand for 10 minutes at room temperature and centrifuge at 5000 rpm for 10 minutes .

Determine the cholesterol concentration of supernatant by using standar LDL cholesterol and **JOURILABS** Kit for the determination of cholesterol.

	Blank	Standard	Sample
Standard	-	100 µl	-
supernatant	-	-	100 µl
Reagent cholesterol	1 ml	1 ml	1 ml

Mix well, incubate at 37°C for 5.0 minutes, then read the optical density (O.D). The color is stable for 30 minutes

## CALCULATION

LDL Cholesterol =

$$\text{Total Cholesterol} - \frac{\text{O.D Sample}}{\text{O.D Standard}} \times 11 \times 50$$

50 = standard concentration.

11 = dilution factor.

## LINEARITY

The test is linear up to 275mg/dl cholesterol concentration

## PRESENTATION

1 X 60 ml Cat No 1501 60 Tests

## BIBLIOGRAPHY

- H. Wieland and D. Siedel . J. Lipid Res . 24.904 (1983)
- G. Assmann, internist 20.559 (1979) .

The following symbols are used on labels



**For in vitro diagnostic use**



**Use day (last day of the month)**



**Temperature limitation**



**Bath code**



**Code**