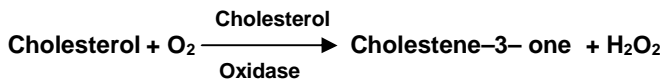
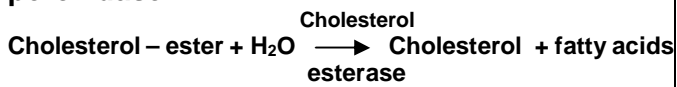


# CHOLESTEROL

**Enzymatic Colorimetric Method 50 Tests**

## PRINCIPLE :

The cholesterol is determined after enzymatic hydrolysis and oxidation. The quinoneimine is formed from hydrogen peroxide and 4-aminoantipyrine in the presence of phenol and peroxidase .



## SAMPLE :

Serum, or plasma collected in EDTA or heparin .

## NORMAL VALUES:

150 – 225 mg / dL (3.87 – 5.81 mmol/L)

## REAGENTS :

1.	<b>Standard</b>	200 mg / dL (5.17 mmol/L)
2.	<b>Buffer – Chromogen:</b>	
	Buffer	100 mmol / L
	phenol	20 mmol / L
	Surfactant	
3.	<b>Enzymes :</b>	
	Cholesterol esterase	> 170 U / L
	Cholesterol oxidase	> 270 U / L
	Peroxidase	> 1000 U / L
	4- Aminoantipyrine	0.6 mmol / L

## STABILITY :

All reagents are stable up to the expiry date specified when stored at +4 to +8 °C .

## PROCEDURE :

Working reagent : Mix equal volumes of reagent 2 and 3 immediately before the assay .

	Blank ml	Standard ml	Sample ml
Standard	-	0.01	-
Sample	-	-	0.01
Working reagent	1.0	1.0	1.0

Mix well. Incubate for 10 min. at 37°C . Measure the absorbances of the sample ( $A_{\text{Sample}}$ ) and the standard ( $A_{\text{Standard}}$ ) against blank, at 500 nm. ( 492 - 550 ) . The color intensity is stable for 30 min. Linearity up to 500 mg / dL .

## CALCULATION :

Cholesterol Concentration

$$= \frac{A_{\text{Sample}}}{A_{\text{Standard}}} \times \text{Standard Conc.}$$

## QUALITY CONTROL:

For accuracy and reproducibility control:  
Assayed Multi-Sera Normal and Elevated.

## REFERENCES :

Richmond W., (1973 ) Clin. Chem., 19, 1350  
Allain C. C. et al ., ( 1974 ) Clin . Chem ., 20 , 470 .

## CHOLESTEROL

**Enzymatic Colorimetric Method**  
+4 to +8°C 50 Tests  
In vitro diagnostic use

CAT. No. CH 12 20

## REAGENTS

<b>R1</b> Standard	<b>2 ml</b>
<b>R2</b> Buffer- Chromogen	<b>25 ml</b>
<b>R3</b> Enzymes	<b>25 ml</b>

## CONTACTS

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