CORALYZER
System Pack

Cholesterol (SR) Kit

(CHOD / PAP Method)

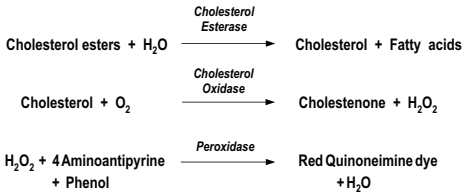
For the determination of Cholesterol in serum or plasma.
(For Invitro Diagnostic Use Only)

Summary

Cholesterol is the main lipid found in blood, bile and brain tissues. It is the main lipid associated with arteriosclerotic vascular diseases. It is required for the formation of steroids and cellular membranes. The liver metabolizes the cholesterol and it is transported in the blood stream by lipoproteins. Increased levels are found in hypercholesterolaemia, hyperlipidaemia, hypothyroidism, uncontrolled diabetes, nephrotic syndrome, and cirrhosis. Decreased levels are found in malabsorption, malnutrition, hyperthyroidism, anemias and liver diseases.

Principle

Cholesterol esterase hydrolyses esterified cholesterols to free cholesterol. The free cholesterol is oxidised to form hydrogen peroxide which further reacts with phenol and aminoantipyrine by the catalytic action of peroxidase to form a red coloured quinoneimine dye complex. Intensity of the colour formed is directly proportional to the amount of cholesterol present in the sample.



Normal reference values

Serum / Plasma	Suspicious	:	220 mg/dl and above
	Elevated	:	260 mg/dl and above

It is recommended that each laboratory establish its own normal range representing its patient population.

Contents

Coralyzer 100 System Packs	**90 ml**	**270 ml**
L1 : Cholesterol Reagent	3 x 30 ml	9 x 30 ml

Coralyzer 200 System Packs	**80 ml**	**240 ml**
L1 : Cholesterol Reagent	2 x 40 ml	6 x 40 ml

Storage / stability

Contents are stable at 2 - 8°C till the expiry mentioned on the labels.

Upon storage the Cholesterol reagent may develop a slight pink colour. This does not affect the performance of the test.

Reagent preparation

Reagent is ready to use.

Sample material

Serum, EDTA plasma. Cholesterol is reported to be stable in the sample for 7 days when stored at 2 - 8°C.
The sample should preferably be of 12 to 14 hours fasting.

Calibration

Calibrator is recommended for calibration of this assay.

Linearity

This procedure is linear upto 750 mg/dl.

Note

Anticoagulants such as flourides and oxalates result in false low values.
The test is not influenced by Hb values upto 20 mg/dl and bilirubin upto 10 mg/dl.

References

Trinder, P., (1969) Ann. Clin. Biochem. 6 : 24
Allain, C.C., etal, (1974) Clin. Chem. 20 : 470
Flegg, H.M., (1972) Ann. Clin. Biochem. 10 : 79

Programming on	**CORALYZER 100/200**
Item	CHOL SR
Full Name	CHOLESTEROL
Test Method	End Point
Base Information	
Unit	mg/dl
Filter	510 nm
Sub. Filter	670 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	0.25
Sample	
Sample Volume	3
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	300
Rgt. 2 Volume	0
Linearity	750
Read data for check	
Assistant Start	NONE
Assistant End	NONE
Range Low	0
Range High	2
Test Point Start	17
Test Point End	18
Standard	
Number of standard	1
Factor	1
Correct Factor	1
Standard Cup	User Defined
Conc.	See Calibrator

Manufactured by :
Coral Clinical Systems
A Division of Tulip Diagnostics (P) Ltd.
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