

COLESTEROL FS*

Gilford Express 550

Order information

Cat. No. Kit size
1 1300 99 10 026 R 6 x 100 ml
10 130 023 R 1 x 1000 ml

Method

Enzymatic colorimetric test, "CHOD-PAP"

Determination of Cholesterol after enzymatic hydrolysis and oxidation. The colorimetric indicator is Chinonimine which is generated from 4-Aminoantipyrine and Phenol by Hydrogen Peroxide under the catalytic action of Peroxidase.

Reagent preparation and stability

The reagent is ready-to-use and stable up to the end of the indicated month of expiry, if contamination is avoided and stored at 2 - 8 °C. The reagent must be protected from light.

Stability of standard: until expiry date, when stored at 2 – 25 °C

Specimen

Serum, heparinized or EDTA plasma; Avoid hemolysis!

Components and concentration in the test

GOOD's buffer	pH 6.7	50 mmol/l
Phenol		5 mmol/l
4-Aminoantipyrine		0.3 mmol/l
Cholesterol Esterase		≥ 200 U/l
Cholesterol Oxidase		≥ 50 U/l
Peroxidase		≥ 3 KU/l

Standard: 200 mg/dl (5.2 mmol/l)

Notes

The reagent contains Sodium Azide (0.095 %) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.

Clinical interpretation (see reference 4)

Suspect: over 220 mg/dl (5.7 mmol/l)
Elevated: over 260 mg/dl (6.7 mmol/l)

As per recommendation of the European Consensus Conference it is recommendable to lower the Cholesterol level in blood of about 180 mg/dl for adults up to 30 years of age and to about 200 mg/dl for adults of over 30 years of age.

References

1. Richmond, W., Clin. Chem., 19, (1973), 1350 - 1356
2. Roeschlau, P., Bernt, E., Gruber, W., Z. Klin. Chem. Klin. Biochem, 12, (1974), 403 - 407
3. Trinder, P., Ann. Clin. Biochem., 6, (1969), 24
4. Schettler, G., Nüssel, E., Arbeitsmed. Sozialmed. Präventivmed., 10, (1975), 25

* fluid stable

Test Parameters

Test Name	Cholesterol
Test	CHO
Test Bar Code	#011
Test Type	Endpoint
Curve Type	Blanked linear
Units	mg/dl
No. of decimal places	0
Primary Wavelength	510 nm
Secondary Wavelength	600 nm
Read Time/ Interval	20
Sample Blank	no
Factor	*
Calibration Interval	24/72
Normalization Interval	
No. of Calibrators	3 (2)
No. of Replicates	2
Low Blank A Limit	-0.010
High Blank A Limit	0.350
Low A limit	0.000
High A Limit	2.000
Low Normal	140
High Normal	220
Linearity Limit	800
Curve S D Limit	10.0

Reagent Parameters

Test Name	Cholesterol
Test	CHO
Test Bar Code	#011
Sample Volume	3 µl
Sample Diluent	
Predilution Ratio	
Reran Dilution Ratio	1
Predilution	1
Reagent Diluent	
Reagent 1: Volume	300 µl
Diluent volume	
Bar Code	CHIB
Lag Time	600 sec
Reagent 2 : Volume	µl
Diluent volume	µl
Bar Code	
Lag Time	sec