

# CHOLESTEROL FS\*

## Order information

Cat. No.	Kit size	
10 130 021	R 5 x	25 ml + 1 x 3 ml standard
1 1300 99 10 026	R 6 x	100 ml
10 130 023	R 1 x	1000 ml
10 130 030	6 x	3 ml standard

**ABBOTT  
SPECTRUM**

Temperature: 30/37°C

## TEST DEFINITION

ENTRY NAME		CHO
REPORT NAME		Cholesterol
TEST N°		#
TEST TYPE		calibrated
MATH		LIN REG END PT
REACTION DIRECTION		UP
REAGENTS		1
TEMPERATURE		30 or 37°C
SERUM BLANK		No
CALIBRATION	LEVEL (C)	N°
WATER	0.0000	1
CAL	*	1
SAMPLE µL	NORMAL	2.5
	LOW	5
	HIGH	1.25
UNITS	PRIM.	mg/dl
	SEC.	mmol/l
SEC UNITS FACTOR		25.6
PRINT DIGITS		0
INST MULT		1 INT. 0
NORMAL		0 TO 200
CAL MODE		CAL ON CMD
CAL LEVEL		0
CAL INTERVAL		
REF CAL FACTOR		5.8#
% TOL OF CAL FACTOR		10
% TOL OF CAL		10

## 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

## REAGENTS DEFINITION

REAGENT NUMBER 1 FOR TEST		Cholesterin
REAGENT NAME		CHO
LOT ID		#
REAGENT VOLUME (µl)		236
FIRST READ TIME (SEC)		240
LAST READ TIME (SEC)		600
NUMBER OF READS		1
READ INTERVAL (SEC)		60
PRIMARY/SECONDARY		E.F.
1 - 5	500 - 600	0.00
6.	500 - mA	0.00
LINEARITY (C)		0 TO 1000
INITIAL Ad		0.1
ABS LIMIT		1.0
REAGENT BLANK		YES
BEFORE WASH CYCLES		1
AFTER WASH CYCLES		1
MIX TIME		1
COOLING		YES

#) Data entry by the user

\*) Calculated by the analyzer