

# 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

**BAYER / TECHNICON  
RA-SYSTEM**

## CHEMISTRY SETTINGS

Temperature: 37°C

## 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

METHOD NO (FREE NO)	#		
CODE	#		
NAME	CHOL		
IMMUNOASSAY	0	IA TABLE	-
TYPE	2		
INV METHOD	0		
% SAMPLE VOL	7%		
FILTER POS	4(500)		
BIC CHEM	0	FILTER 2	-
BIC FACT 1	0	BIC FACT 2	-
BIC LIM 1	0	BIC LIM 2	-
DEP. LIM	-		
DELAY	5:00		
INCUBATION	-		
DEFAULT	0	BLANK	0
% REAG VOL	70%		
2ND REAG	0	2RGT VOL	-
A1 DLY.	-	A2 DLY	-
UNITS	mg/dl		
UNIT FAC	1.00	DECIMAL	0
RBL LOW LIM	0	RBL HIGH LIM	2.00
RANGE LOW	0	RANGE HIGH	750
CAL FACTOR	1.00		
RGT RATE	-		
STD VAL	*		
NORMAL L	0	NORMAL H	220
SLOPE	1.00	INTERCEPT	0.00
LIN FACT	-	1.0 LIM	-
EP LIM	0.01		
C 1* 10E-6	-	C 2* 10E-6	-
D 1* 10E-6	-	DELTA-Z	-

- #) Data entry by the user  
\*) Enter calibration or standard value and position  
\*\*) The factor must be checked by a calibration serum.

15.04.08