

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

OLYMPUS
OLYMPUS AU 560

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

INSTRUMENT SETTING

INDIVIDUAL TEST PARAMETERS		CHOL
2.	SAMPLE VOLUME	(3)
	DILUENT	(12)
3.	REAGENT VOLUME	
	1-STEP	(250)
	DILUENT	()
	2-STEP	()
	DILUENT	()
4.	WAVELENGTH 1	(520)
	WAVELENGTH 2	(600)
5.	METHOD	(END)
6.	REACTION	(+)
7.	FIRST-POINT-1	(0)
	LAST-POINT-1	(16)
8.	FIRST-POINT-2	()
	LAST-POINT-2	()
9.	NO LAG TIME	()
10.	TURBIDITY	()
11.	PROZONE CHECK	()
12.	REAGENT OD L	(-0.1)
	REAGENT OD H	(0.3)
13.	SERUM BLANK L	()
	REAGENT OD H	()
14.	MIN.-OD	()
	MAX.-OD	()
15.	LINEARITY	()
16.	DYNAMIC RANGE L	(0)
	DYNAMIC RANGE H	(750)
17.	UNIT	(mg/dl)
18.	CORRELATION FACTOR A	(1)
	CORREALTION FACTOR B	(0)
19.	COUNT	(1-4)
20.	DILUTION VOLUME	(#)
21.	CONDENSE VOLUME	(#)
22.	MONITOR SPAN	(#)
23.	AGC POINT	(#)
CALIBRATION TEST PARAMETERS		
2.	CALIBRATION TYPE	AB
3.	CALCULATION TYPE	1
4.	CUVETTES	3
5.	OD/CONC	CONC
6.	CALIBRATION PARAMETERS	
	OD	-
	CONC./FACTOR	*
	CAL. NO.	#
	LIMIT L	0
	LIMIT H	99999

- #) Data entry by the user
*) Calculated by the analyzer