

CHOLESTEROL FS*

BAYER OPERA

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

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

Resident Chemistry

NAME	CHOL
IMMUNOASSAY	-
TYPE	Endpoint
INVERSE CHEMISTRY	No
SAMPLE VOLUME	3.5
ALT. SAMPLE VOLUME	2.0
WAVELENGTH	500
DEPLETION TEST	No
BICHROMATIC CHEMISTRY	No
BICHROMATIC WAVELENGTH	-
BICHROMATIC TYPE	-
BICHROMATIC FACTOR 1	-
DEPLETION LIMIT	-
BICHROMATIC FACTOR 2	-
K1	-
K2	-
BICHROMATIC LIMIT 1	-
BICHROMATIC LIMIT 2	-
DELAY TIME	9:30
INCUBATION	-
BLANK TYPE	No
REAGENT VOLUME	350
SECOND REAGENT	No
2 ND REAGENT VOLUME	-
2 RGT DELAY	-
A1 DELAY	-
A2 DELAY	-
UNITS	mg/dl
UNIT FACTOR	1.000
DECIMAL POINT	1
RBL LOW	0.000
RBL HIGH	2.000
RANGE LOW	0
RANGE HIGH	750
VALIDATION RANGE HIGH	750
CALIBRATION FACTOR	-
REAGENT RATE	-
REAGENT BLANK	0.0
STANDARD VALUE	*
NORMAL LOW	0
NORMAL HIGH	220
SLOPE	1.000
INTERCEPT	0.000
ENDPOINT LIMIT	0.2
C1*10E-6	-
C2*10E-6	-
D1*10E-6	-
DELTA	-
LINEARITY FACTOR	-
FIRST LIMIT	-
DAU METHOD	No
AUTO LINEARIZATION	No
CORRECTION LIMIT	-
AUTO LIN SLOPE	-
AUTO LIN INTERCEPT	-

TABLE IA	-
No. OF STANDARDS	1
No. OF ASPIRATIONS	2
STANDARD 1	*
STANDARD 2	-
STANDARD 3	-
STANDARD 4	-
STANDARD 5	-
STANDARD 6	-

*) Enter calibrator or Standard value

#) Data entry by the user

**) Factor must be checked by using a calibrator