

CHOLESTEROL FS*

AXON
Chemistry settings

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

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

* fluid stable

1	UNITS	mmol/L
2	DECIMALS	2
3	STANDARD #1	Input Conc.
4	STANDARD #2	
5	STANDARD #3	
6	STANDARD #4	
7	STANDARD #5	
8	STANDARD #6	
9	CORR.SLOPE	1.000
10	CORR. INTER.	0.000
11	STD. NAME	TruCal
12	SPARE	
13	SPARE	
14	NORM-S M - L	0
15	M - H	5.2
16	F - L	0
17	F - H	5.2
18	NORM-U L	0
19	H	0
20	LIS NAME	CHOL
21	TYPE	END
22	COLOR. W1	540
23	COLOR. W2	700
24	SPARE	
25	SPARE	
26	SPARE	
27	DATA FORMAT	NUMERIC
28	FACTOR	
29	SMP. VOLUME	3
30	SMP.RINSE VOL	50
31	R1 VOLUME	300
32	R1 RINSE VOL	0
33	R2 VOLUME	
34	R2 RINSE VOL	
35	R3 VOLUME	
36	R3 RINSE VOL	
37	0 LEVEL POINT	34
38	SPARE	
39	SPARE	
40	ABS. LIMIT LOW	0.00
41	ABS. LIMIT HIGH	9.999
42	MAIN READ START	66
43	END	70
44	SUB READ START	
45	END	
46	LINEAR CHECK M	10
47	S	
48	MONITOR SPAN	3.000
49	RBL MINIMUM	0.000
50	RBL MAXIMUM	2.50
51	ANALYSIS METHOD	CHOD
52	SAMP. BLK.MODE	NONE
53	BLANK COR.FACTOR	0.000
54	MAX BLANK VAR.	2.50
55	BICHR. FACTOR	1.000
56	ENDPOINT LIMIT	1.000
57	ONLINE STABILITY	99
58	TON. CHEM. NO	0
59	DEPLETION CHK	70
60	CUVETTE USE	ALL
61	SPARE	
62	SPARE	
63	SPARE	
64	SPARE	
65	SPARE	
66	STD 1E%	0.00
67	2 E%	0.00
68	3 E%	0.00
69	4 E%	0.00
70	5 E%	0.00
71	6 E%	0.00
72	C.10%H	0.00
73	C.10%L	0.00
74	C.50%L	0.00
75	C.50%H	0.00
76	C.90%L	0.00
77	C.90%H	0.00
78	FIT	9.99