



Teco Diagnostics

Intended Use

For the quantitative determination of total cholesterol in serum or plasma on TC Matrix analyzers.

Principle

Cholesterol esters are hydrolyzed to produce cholesterol. Hydrogen peroxide is then produced from the oxidation of cholesterol by cholesterol oxidase. In a coupled reaction catalyzed by peroxidase, quinoeimine dye colored red is formed from 4-aminoantipyrine, p-HBS, and hydrogen peroxide. The absorption at 520 nm of the solution of this dye is proportional to the concentration of cholesterol in the sample.

CONTACT US:

TECO DIAGNOSTICS

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Test:

Cholesterol (Liquid) Reagent Set (C507-940TM)

Number of Tests:

940 tests

Format:

Liquid

Method:

Colorimetric, Endpoint

Testing Procedure:

Automated

Storage Temperature:

2-8°C

Wavelength:

510 nm

Linearity:

5-750 mg/dL

Expected Values:

Desirable: < 200 mg/dL

Borderline high: 200-239 mg/dL

High: ≥ 240 mg/dL

It is strongly suggested that each laboratory establish its own range of expected values.

Limitations of Procedure:

The anticoagulants EDTA, sodium citrate, potassium oxalate, and sodium fluoride were found to be incompatible with this method.

Sample or control materials which contain acetic acid, detergents, or surfactants may inhibit the enzymes in the reagent and should not be used.

Hemoglobin levels up to 500mg/dL, triglyceride levels up to 1500mg/dL and bilirubin levels up to 30mg/dL were found to exhibit negligible interference.