Teco Diagnostics

Test:
LDL Cholesterol (Direct Method)for TC Matrix (L530-400TM)

Number of Tests:
400 tests

Format:
Liquid

Method:
Colorimetric, Endpoint

Testing Procedure:
Automated

Storage Temperature:
2 – 8°C

Wavelength:
578nm

Expected Values:
<100 mg/dL optimal
100 – 129 mg/dL near optimal/above optimal
130 – 159 mg/dL borderline high risk
160 – 189 mg/dL high risk
≥ 190 mg/dL very high risk
It is recommended that each laboratory establish its own range of expected values.

Linearity:
Assay range: 5 – 500 mg/dL

Limitations of Procedure:
Anticoagulants containing citrate should not be used.
Hemoglobin at levels up to 400 mg/dL, Bilirubin at levels up to 20 mg/dL and Triglycerides to 1500 mg/ dL were found to exhibit negligible interference (<5%) on this method.

Intended Use

For the direct quantitative determination of low density lipoprotein cholesterol (LDL-C) in human serum or plasma on TC Matrix analyzers.

Principle

The Direct LDL Cholesterol Reagent is a two-part, liquid stable method for directly measuring LDL-C levels in serum or plasma. A unique detergent (R1) solubilizes only the non-LDL lipoprotein particles. The cholesterol released is consumed by cholesterol esterase and cholesterol oxidase in a non-color forming reaction. A second detergent (R2) solubilizes the remaining LDL particles and a chromogenic coupler allows color formation. The enzyme reaction with LDL-C in the presence of the coupler produces color that is proportional to the amount of LDL cholesterol present in the sample.

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