BIOBASE

Triglyceride (TG) Test Kit

(Enzyme Colorimetric)

【NAME】

Triglyceride (TG) Test Kit (Enzyme Colorimetric)

【INTEND USE】

This reagent is intended for the in vitro quantitative determination of Triglyceride (TG) in human serum or plasma.

This reagent is intended for the in vitro quantitative determination of Triglyceride (TG) in human serum or plasma.The significance of determination of triglyceride in diagnosis and treatment of hyperlipemia. These diseases may be primary or secondary to other diseases, such as kidney disease, diabetes and endocrine disorders. Increased triglycerides in: hyperlipidemia, nephrotic syndrome, diabetes, liver disease, atherosclerosis, JiaJian, etc.Triglyceride lowering common: severe malnutrition, fat digestion and absorption barriers, hyperthyroidism.Elevated triglycerides have been proved to be a risk factor for coronary atherosclerosis sex heart disease.Therefore, the determination of triglyceride is for blood fat disease diagnosis has important clinical significance.

【METHODOLOGY】

$$\text{Triglyceride} + H_2O \xrightarrow{\text{LPL}} \text{Glycerol} + \text{Fatty acids}$$

$$\text{Glycerol} + ATP \xrightarrow{\text{GK}} \text{Glycerin - 3 - phosphate} + ADP$$

$$\text{Glycerin-3-phosphate} + O_2 \xrightarrow{\text{GPO}} \text{Dihydroxy acetone phosphate} + H_2O_2$$

$$2H_2O_2 + \text{4- amino antipyrine} + \text{DHBS} \xrightarrow{\text{POD}} \text{Red purple pigment}$$

【STABILITY AND STORAGE】

Unopened, avoid light preservation in 2 ~ 8 ℃, valid for 12 months;

Opened, avoid contamination preservation in 2 ~ 8 ℃, valid for 1 month.

Reagent is not allowed frozen.

【SPECIMEN COLLECTION AND HANDLING】

It is best to fresh Serum, heparin anticoagulant blood plasma.

Do not use the contaminated samples.

When the conjugated bilirubin concentration of sample≤205 μ mol/L;Free bilirubin concentrations≤462 μ mol/L, hemoglobin hemoglobin concentrations≤6.00g/L,was not observed clearly disturbance.

【APPLICABLE INSTRUMENT】

Fully automatic biochemistry analyzer..

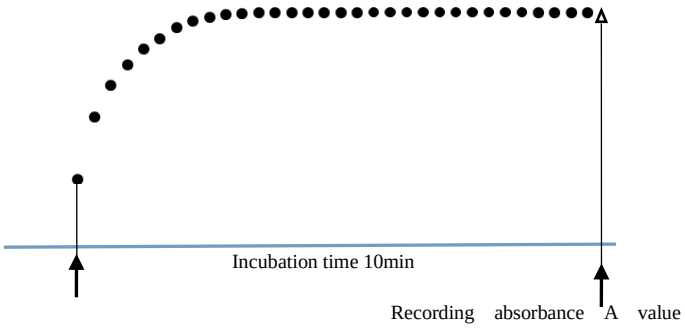
【SYSTEM PARAMETERS】

The following system parameters are recommended. Individual instrument applications are available upon request from the Technical Support Group

Temperature	37° C
Cuvette light path	1.0cm
Primary Wavelength	505 nm
Secondary Wavelength	660nm
Assay Type	One Point End
Direction	Increase
Sample : Reagent Ratio	1:100
eg : Sample Vol	3 μL
Reagent Vol	300 μL
Linearity	0～11.3mmol/L

【OPERATION STEPS】

R:Reagent S:Calibrator U:Sample



Distilled water, U or S:3 μ l;R1:300 μ l

【CALCULATION】

Use The Calibrator

$$\text{Sample TG concentration} = \frac{\text{Sample } \triangle A}{\text{Calibrator } \triangle A} \times \text{Calibrator concentration}$$

【REFERENCE RANGE】

0.7～1.7mmol/L

By clinical trials, choose no less than 100 newborn or adults blood specimens, tested by automatic biochemical analyzer, and then processing the testing value with statistical method, calculating out the reference range.

【THE LIMITATION OF TEST RESULTS】

TG testing is just one of the standard that clinicist diagnose the patient. Clinical physicians should according to patients' bodies, history and other diagnostic program, to get comprehensive judgment.

【THE INTERPRETATION OF TEST RESULTS】

Human error, the processing of specimen, analysis instrument deviation, etc. all can affect the measurement result； When one sample deviates from the expected value too far, need to be tested again.

【PERFORMANCE INDEX】

1.Reagent blank absorbance ≤0.2, (505nm, l cm optical path).

2.Precision: repeatability CV≤5%;batch variations R≤6%.

3.Accuracy: relative deviation ≤10%.

4.Linearity range: 0～11.3mmol/L, r≥0.990.

【ATTENTION】

1.Reagent contains sodium azide (toxic) preservatives, avoid contact with skin and mucous membrane.If necessary preventive measures should be taken use of reagents, reagent contact with skin and mucous membrane, please rinse with water, please go to a doctor if necessary.

2.The maximum linearity is 11.3mmol/L. If testing results is upper limit,dilute with 0.9% sodium chloride solution before test, results multiplied by the dilution ratio.

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