

TRIGLYCERIDES Assay Kit

Cat.No: OttoBC155

Summary & Explanation

All lipoproteins are macromolecular complexes composed of hundreds to thousands of core lipid molecules (triglycerides and cholesteryl esters) that are covered by a surface monolayer of phospholipids, a small quantity of free cholesterol, and one or more apolipoproteins.⁵ The apolipoproteins play minor roles as amphipathic proteins at the interface of the aqueous plasma and the lipid-soluble core of each lipoprotein particle. They play major roles as regulators of the lipoprotein metabolism.

Test Principle

Triglycerides in the sample originates, by means of the coupled reactions described below, a coloured complex that can be measured by spectrophotometry.

Kit Components

Content	Explanation	Shelf life
Reagent-1	1x30ml	6 months
Calibrator	1x0.5ml	6 months
Q.Control	1x0.5ml	6 months

Storage & Stability

Reagent: Stable up to expiry date when stored capped and at +4°C even after start using

Calibration and Quality Control: Reconstitute the contents of with 0.5 ml of redistilled water . Stable for 2 days when stored at +4°C

Reactivity

Universal

Specimen

Collect serum using standard sampling tubes.

Heparinized or EDTA plasma.

Do not use citrate, oxalate or fluoride-plasma.

Stability: 7 days at +2°C - +8°C, 30 days at - 70°C

Assay Range

10-600 mg/dl

Reference Range

Each laboratory is recommended to establish their own reference values.

Analytical Performance

Inter Assay Coefficient of Variation (CV) % 2.6

Intra Assay Coefficient of Variation (CV) % 2.8

Procedure

Wavelength	505nm (±10nm)
Sample or Standard	3µl
Reagent-1	300µl
Zero Adjustment	Reagent blank

Mix and incubate 5 minutes. Read the absorbance against blank within 30 minutes.

Calculation

$$\frac{\text{Abs. Samples}}{\text{Abs. Standard}} \times \text{Calibrator conc} = \text{Triglycerides in mg/dl}$$

Warning

For in vitro use only

Do not pipette by mouth

Do not use reagents beyond the expiry date.

References

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