Triglyceride (TG) Colorimetric Assay Kit (Single Reagent, GPO-PAP Method)

Cat No: HR3BC1236

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Microplate reader (510 nm)
Assay Time	30 min
Validity	6
Assay Type	Quantitative
Sample Type	serum, plasma, cells and tissue
Synonyms	TG
Instrument	Microplate reader (510 nm)
Detection Principle	Triglycerides (TG) can be hydrolyzed by lipoprotein lipase into glycerol and free fatty acids. Glycerol produces glycerol-3-phosphate and ADP under the catalysis of glycerol kinase (GK). Glycerol-3-phosphate produces hydrogen peroxide under the action of glycerol phosphate oxidase (GPO). In the presence of 4-aminoantipyrine and phenol, hydrogen peroxide is catalyzed by peroxidase (POD) to produce quinones which is proportional to the content of TG.
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4), Isopropanol(AR)
Labware	Micropipettor, Water bath, Incubator, Vortex mixer, Centrifuge
Size	96T
Sensitivity	0.14 mmol/L
Detection Range	0.14-10 mmol/L
Recovery Rate	105