Total Cholesterol (TC) Colorimetric Assay Kit (Single Reagent, COD-PAP Method)

Cat No: HR3BC1187

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Microplate reader(495-525 nm)
Assay Time	20 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,plasma,tissue,cells,cell culture supernatant
Synonyms	TC
Instrument	Microplate reader(495-525 nm)
Detection Principle	Total cholesterol includes free cholesterol and cholesterol esters. Cholesterol ester can be hydrolyzed by cholesterol esterase to produce cholesterol and free fatty acid. Cholesterol is oxidized by cholesterol oxidase to produce ?4-cholestenone and hydrogen peroxide. In the presence of 4-aminoamylpyridine and phenol, hydrogen peroxide catalyze peroxidase to form red quinone compounds of benzoquinone imine phenizone.The color depth of the generated quinone is directly proportional to the cholesterol content. The absorbance values of the standard tube and the sample tube are measured respectively, and the cholesterol content in the sample can be calculated.
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4), Isopropanol
Labware	Micropipettor, Incubator, Centrifuge
Size	96T
Sensitivity	0.29 mmol/L
Detection Range	0.29-25.85 mmol/L
Recovery Rate	103