

FADH₂ Cholesterol (TC) Colorimetric Assay Kit (Single Reagent, COD- Cat No: HR3BC1138

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Spectrophotometer(510 nm)
Assay Time	50 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,plasma,hydrothorax,animal tissue,cells
Synonyms	TC
Instrument	Spectrophotometer(510 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	100Assays
Sensitivity	0.09 mmol/L
Detection Range	0.09-25.85 mmol/L
Recovery Rate	102