

Total Cholesterol and Cholesteryl Ester Fluorometric Assay Kit

Cat No: HR3BC1245

For research use only

Overview

Detection Method	Fluorescence method
Storage	-20?
Instrument	Fluorescence microplate reader (Ex/Em=535 nm/590 nm)
Assay Time	20 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum, plasma, animal tissue, cells
Synonyms	
Instrument	Fluorescence microplate reader (Ex/Em=535 nm/590 nm)
Detection Principle	Total Cholesterol (TC) includes free cholesterol (FC) and cholesteryl esters (CE). Cholesterol ester can be hydrolyzed by cholesterol esterase to produce cholesterol and free fatty acid. Cholesterol is oxidized by cholesterol oxidase to produce Δ^4 -cholestenone and hydrogen peroxide. In the presence of the enzyme and probe, hydrogen peroxide can be catalyzed to produce the fluorescence substrate. The fluorescence intensity at the excitation wavelength of 535 nm and emission wavelength of 590 nm is proportional to the cholesterol concentration.
Reagents	
Labware	Micropipettor, Vortex mixer, Centrifuge
Size	96T
Sensitivity	0.12 μ mol/L
Detection Range	0.12-30 μ mol/L
Recovery Rate	96