

High-Density Lipoprotein Cholesterol Content Assay kit

High-density lipoprotein (HDL) is a lipoprotein that contains a small amount of cholesterol and carries cholesterol away from body cells and tissues. High-density lipoprotein cholesterol (HDL-C) concentrations negatively correlate with the incidence of atherosclerosis and coronary heart disease. Therefore, accurate and precise measurements of patients' HDL-C concentrations are necessary to appropriately identify individuals with atherosclerosis, coronary heart disease and hypertension. Cholesterol is specifically dissociated by one surfactant from HDL. Esterase can catalyze the hydrolysis of cholesterol ester to produce free cholesterol (FC) and free fatty acid (FFA), thus transforming cholesterol ester into FC; Furthermore, cholesterol oxidase can catalyze FC to form 4-cholesterone and H₂O₂; Finally, peroxidase can catalyze the oxidation of 4-aminoantipyrine and phenyl amines by H₂O₂ to form purple quinones. It has a characteristic absorption peak at 546nm, and its color depth is directly proportional to cholesterol content.

Catalog No.	250532
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Detection Method	Spectrophotometry / Micro-Plate Reader
Storage/Stability	2-8°C/6 months
Shipping	Gel Packs