

## Total Cholesterol Assay Kit - Colorimetric

**Catalog Number:** AKAS0550

**Price:** [Online Inquiry](#)

Product Information	
Product Name	Total Cholesterol Assay Kit - Colorimetric
Instruments	Microplate Reader
Sample Type	Serum, Plasma, Tissue, Cells, Cell Culture Supernatant
Research Area	Diabetes & Obesity
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 $\Delta^4$ -cholestenone and hydrogen peroxide. In the presence of 4-aminoantipyridine and phenol, hydrogen peroxide catalyze peroxidase to form red quinone compounds of benzoquinone imine phenazine. 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.
Assay Time	20 min
Storage	2-8°C
Shipping Conditions	Gel Pack