

Free Cholesterol (FC) Assay Kit | FC assay kit

Free Cholesterol (FC) Colorimetric Assay Kit

CATALOG #
AAA177777

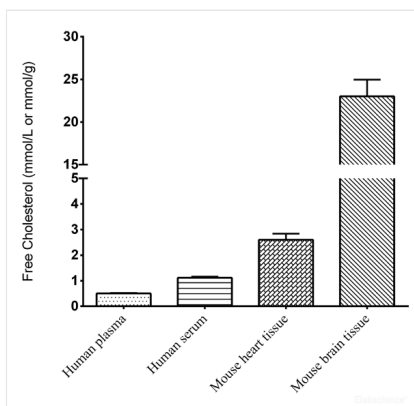
PRODUCT SYNONYMS

Free Cholesterol (FC); Free Cholesterol (FC) Colorimetric Assay Kit; FC assay kit

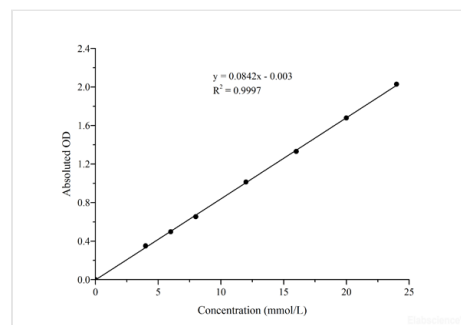
PRODUCT SPECIFICATIONS

Samples	Serum, plasma, tissue samples
Detection Range	0.07-24 mmol/L
Sensitivity	0.07 mmol/L
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

IMAGES



Application Data



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FC assay kit

Intended Uses: This kit applies the COD-PAP method and it can be used for in vitro determination of free cholesterol content in serum, plasma, tissue samples.

Principle of the Assay: Free cholesterol produces 4-cholestenone and hydrogen peroxide under the oxidation of cholesterol oxidase. In the presence of 4-aminoamylpyridine and phenol, peroxidase catalyze hydrogen peroxide to form red quinone compounds of benzoquinone imine phenizone. The color depth of the generated quinones is directly proportional to the cholesterol content.

Background/Introduction: Cholesterol is a kind of sterol and lipid in cell membrane. Most of cholesterol in blood exists in the form of cholesterol ester. Lecithin-cholesterol acyltransferase in human plasma is an enzyme that catalyzes the formation of cholesterol ester. Cholesterol synthesized or deposited in peripheral cells returns to the liver through the reverse cholesterol transport system for reusing or regaining bile acids.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

