

## Cholesterol Detection Kit (cell-based)

**Cat. No.** Kit-2317    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**

Cholesterol is an essential structural component of animal cell membranes. It is required to maintain membrane structural integrity and fluidity. Cholesterol also serves as a precursor for the biosynthesis of several hormones, bile acid and vitamin D. Plasma membrane contains majority of the cellular cholesterol (80-90%) whereas little cholesterol resides in endoplasmic reticulum and in mitochondrial membrane. Transport of intracellular cholesterol within the cells to different compartments is through vesicular and non-vesicular pathways. Defects in these transport processes can alter cellular cholesterol metabolism resulting in pathological conditions. Filipin III is widely used as a probe for sterol localization in membranes. Interaction with cholesterol alters Filipin absorption and fluorescence spectra. This assay provides a simple, easy to perform, histochemical method of identification of unesterified cholesterol.

**Applications**

Screen/study/characterize stimulators/inhibitors that affect cholesterol transport and localization in a variety of cells.

**Storage**

-20°C

**Shipping**

Gel Pack

**Size**

100 assays

**Kit Components**

Fixative Solution; Assay Buffer; Staining Dye

**Detection method**

Light and Fluorescence Microscopy (Ex/Em = 340-380/385-470 nm).

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**Features & Benefits**

Simple, easy to perform, histochemical method of identification of unesterified cholesterol.

Includes U-18666A, a cholesterol transport inhibitor.

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