

# Adipogenesis Assay Kit

**Cat. No.** Kit-0053    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Adipogenesis Assay Kit is used for quantifying triglyceride accumulation in cells and tissues.

### Description

Adipogenesis is the process of differentiation of different cell types into adipocytes, the primary fat storage cell type. The accumulation of adipocytes is the basis for obesity, a significant risk factor in many diseases, including diabetes, atherosclerosis, cancer and cardiovascular disease, etc. Adipocytes accumulate triglycerides, in the form of lipid droplets which can be measured. The Adipogenesis Assay Kit quantifies triglyceride accumulation in cells and tissues. In the assay, triglycerides are efficiently solubilized then hydrolyzed to glycerol which is subsequently oxidized to convert the probe to generate color ( $\lambda_{max} = 570 \text{ nm}$ ) and fluorescence (Ex/Em = 535/587 nm). The kit can detect triglyceride in as few as a thousand or less differentiated 3T3-L1 cells with triglyceride detection linear range 0.2 to 10 nmol. The high detection sensitivity and the convenient microplate assay format make the kit a convenient tool for studying the effect of adipogenesis inducers or inhibitors, or to screen drugs.

### Target Species

Mammals

### Usage

For research use only (RUO)

### Storage

Store kit at  $-20^{\circ}\text{C}$ , protect from light. Warm Adipogenesis Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Read the entire protocol before performing the assay. Use the kit within two months after reconstitution.

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<b>Kit Components</b>	Adipogenesis Assay Buffer, cap code: WM 25 mL Lipid Extraction Solution, cap code: NM 10 mL Adipogenesis Probe (in DMSO solution), cap code: Red 200 $\mu$ L Lipase (lyophilized), cap code: Blue 1 vial Adipogenesis Enzyme Mix (lyophilized), cap code: Green 1 vial Triglyceride Standard (1 mM), cap code: Yellow 0.3 mL
<b>Detection method</b>	Colorimetric, Fluorometric
<b>Compatible Sample Types</b>	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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