Triglyceride Quantification Kit

Cat. No. Kit-0815 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Triglyceride Quantification Kit is used for measuring TG concentration.
Description	Triglycerides (TG) are the main constituent of vegetable oil, animal fat, LDL and VLDL, and play an important role as transporters of fatty acids as well as serving as an energy source. TG are broken down into fatty acids and glycerol, after which both can serve as substrates for energy producing and metabolic pathways. High blood levels of TG are implicated in atherosclerosis, heart disease and stroke as well as in pancreatitis. The Triglyceride Quantification Kit provides a sensitive, easy assay to measure TG concentration in a variety of samples. In the assay, TG are converted to free fatty acids and glycerol. The glycerol is then oxidized to generate a product which reacts with the probe to generate color (spectrophotometry at λ = 570 nm) and fluorometric (Ex/Em = 535/587 nm). The kit can detect 2 pmol-10 nmol (or 2-10000 μM range) of triglyceride in various samples. The kit also detects monoglycerides and diglycerides.
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store kit at -20°C, protect from light. Warm Triglyceride Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening.
Kit Components	Triglyceride Assay Buffer 25 mlTriglyceride Probe (in DMSO, anhydrous) 200 μLLipase 1 vialTriglyceride Enzyme Mix (lyophilized) 1 vialTriglyceride Standard (1 mM) 0.3 ml

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Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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