

Lipid Droplet Assay Kit

Lipid Droplet Isolation Kit

CATALOG #
AAA44629

PRODUCT SYNONYMS

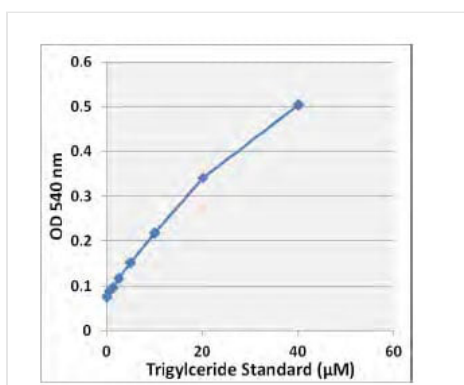
Lipid Droplet; Lipid Droplet Isolation Kit; Lipid Droplet assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage

Store the entire kit at 4 degree C
To avoid possible leakage store bottles upright.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Lipid Droplet assay kit

Background/Introduction: Lipid droplets are organelles that are rich in lipids, contain a lipid rich core, and are surrounded by a phospholipid monolayer as well as outer lipid droplet associated proteins. Lipid droplets are commonly found in adipose tissue of animals, although they are found in all eukaryotes. Lipid droplets function to regulate the hydrolysis and storage of neutral lipids and also serve as storage for cholesterol and acyl-glycerols used to form and maintain cellular membranes. Beyond the function of lipid and cholesterol storage, lipid droplet organelles have been more recently associated with inflammatory responses, obesity, atherosclerosis, and cancer. Lipid droplets have been shown to protect against lipotoxicity in non-adipocytes by storing fatty acids as neutral triacylglycerol. Lipid droplets also aid in protein binding and degradation and have been demonstrated to be used by pathogens such as dengue virus and hepatitis C Virus. Lipid Droplet Isolation Kit isolates lipid droplets by simple gradient centrifugation, but circumvents the need for large sample sizes or ultracentrifugation. A lipid droplet source such as tissue or cultured cells is homogenized. A gradient is then created with the homogenate, and the material is centrifuged. The lipid droplets float to the top of the gradient and are recovered by carefully pipetting from the top of the gradient. Each kit provides sufficient reagents to isolate up to 50 preps based on a 50-100 mg tissue or cultured cell sample size.

Product Categories/Family for Lipid Droplet assay kit

Metabolism Research; Lipoprotein Metabolism; Lipid Extraction Kits; Lipid Droplet Isolation Kit

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.