

Lipid Assay Kit

Lipid Quantitation Kit (Colorimetric)

CATALOG #
AAA44530

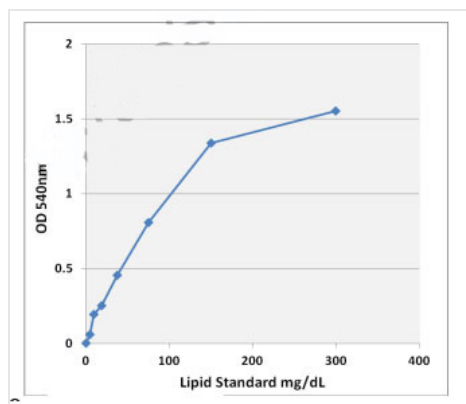
PRODUCT SYNONYMS

Lipid; Lipid Quantitation Kit (Colorimetric); Lipid assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage -20 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Lipid assay kit

Background: Lipids are a diverse group of molecules that include monoglycerides, diglycerides, triglycerides, fats, sterols, and others. Not only do lipids define and preserve cellular membrane integrity, but they are also involved in cellular processes such as membrane trafficking, signal transduction, apoptosis, and energy storage. Perturbation in the metabolism of lipids has been linked to many diseases such as cancer, diabetes, Alzheimer's disease, and coronary heart disease. In order to study lipids, they must often be extracted first from tissues or cellular cultures (1) and then quantified. Some methods for lipid quantification have been described that are quite sensitive, however they require expensive equipment such as an HPLC machine, light scattering detection technology, or a latroscan TLC-FID analyser (2,3). Lipid Quantification Kit measures the lipid content (unsaturated fatty acids only) of samples using the sulfo-phospho-vanillin method (4), resulting in a simple colorimetric readout amenable to multi-well plate detection. First, a crude or purified lipid source is applied to a 96 well plate. Then concentrated sulfuric acid is added and the samples are heated to solubilize and prime the total lipid sample, followed by the addition of vanillin in an acid solution. The lipids react with vanillin in the presence of the acids to form a colorimetric product that is easily detected on a microplate reader. Each kit provides sufficient reagents to perform 100 assays including standards and unknown samples.

Product Categories/Family for Lipid assay kit

[Metabolism Research](#); [Lipoprotein Metabolism](#); [Lipid Quantitation](#)

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.