

Triglyceride (TG) Assay Kit | TG assay kit

Triglyceride (TG) Colorimetric Assay Kit (Single Reagent, GPO-PAP Method)

CATALOG #
AAA177795

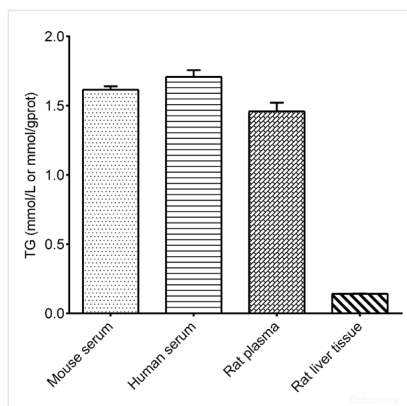
PRODUCT SYNONYMS

Triglyceride (TG); Triglyceride (TG) Colorimetric Assay Kit (Single Reagent; GPO-PAP Method); TG assay kit

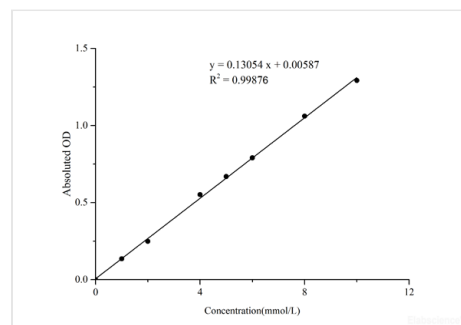
PRODUCT SPECIFICATIONS

Samples	Serum, plasma, cells, and tissue samples
Detection Range	0.14-10 mmol/L
Sensitivity	0.14 mmol/L
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

IMAGES



Standard Curve (Sample)



Application Data

ADDITIONAL INFORMATION

Related Product Information for TG assay kit

Intended Uses: This kit applies the GPO-PAP method and it can be used for in vitro determination of triglyceride (TG) content in serum, plasma, cells, and tissue samples.

Principle of the Assay: Triglycerides (TG) can be hydrolyzed by lipoprotein lipase into glycerol and free fatty acids. Glycerol produces glycerol-3-phosphate and ADP under the catalysis of glycerol kinase (GK). Glycerol-3-phosphate produces hydrogen peroxide under the action of glycerol phosphate oxidase (GPO). In the presence of 4-aminoantipyrine and phenol, hydrogen peroxide is catalyzed by peroxidase (POD) to produce quinones which is proportional to the content of TG.

Background/Introduction: TG is the main component of vegetable oil, animal fat, low-density lipoprotein (LDL) and very low-density lipoprotein (VLDL), and serves as a carrier and source of energy for fatty acids. Triglyceride turnover rate determines the utilization of fatty acids in mammalian tissues. Any dysfunction in this process may lead to changes in glucose metabolism, insulin resistance and type 2 diabetes.

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.

