

Serum Triglyceride Assay Kit

Serum Triglyceride Quantification Kit (Colorimetric)

CATALOG #
AAA44586

PRODUCT SYNONYMS

Serum Triglyceride; Serum Triglyceride Quantification Kit (Colorimetric); Serum Triglyceride assay kit

PRODUCT SPECIFICATIONS

Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store entire kit at -80 degree C. Avoid multiple freeze/thaws by aliquoting. The Colorimetric Probe is light sensitive and should be maintained in amber tubes.

IMAGES

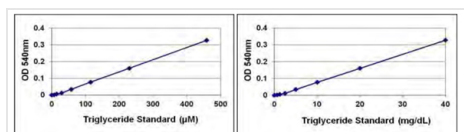


Figure 1: Triglyceride Standard Curve. Triglyceride standard curve was performed according to the Assay Protocol, data plotted in μ M (left) and mg/dL (right).

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Serum Triglyceride assay kit	Background: Triglycerides (TAG) are a type of lipid in the blood, serving as an energy source and playing a key role in metabolism. Triglycerides are the digestive end product of breaking down dietary fats. Any extra carbohydrates and fats that are not immediately used are chemically converted into triglycerides. In the intestines, secreted enzyme lipases hydrolyse the triglyceride ester bond, yielding glycerol and free fatty acids in a process called lipolysis. Enterocytes then absorb and repackage the fragments with cholesterol to form chylomicrons, a major lipoprotein transport particle. In the liver, hepatic lipases also break down triglycerides to assemble another lipoprotein particle (VLDL) from triglycerides, cholesterol, and apolipoproteins. Serum Triglyceride Quantification Kit measures triglyceride concentration in serum, plasma, and lysates by a coupled enzymatic reaction system. First, lipase hydrolyzes the triglyceride ester bond, yielding glycerol. The glycerol is then phosphorylated and oxidized, producing hydrogen peroxide which reacts with the kit's Colorimetric Probe (absorbance maxima of 570 nm). The Serum Triglyceride Quantification Kit is a simple, colorimetric assay that quantitatively measures the amount of triglyceride in plasma, serum, and lysates in a 96-well microtiter plate format. Each kit provides sufficient reagents to perform up to 100 assays, including blanks, triglyceride standards, free glycerol controls and unknown samples. The kit contains a triglyceride standard and has a detection sensitivity limit of ~ 10 μM (1 mg/dL).
Product Categories/Family for Serum Triglyceride assay kit	Metabolism Research ; Lipoprotein Metabolism ; Triglyceride Assays
References	- Bucolo, G. and David, H. (1973) Clin. Chem. 19(5), 476-482. - Fossati, P. and Prencipe, L. (1982) Clin. Chem. 28(10), 2077-2080. - McGowan, M.W. et al. (1983) Clin. Chem. 29(3), 538-542. - Mendez, A.J., Cabeza, C., and Hsia, S.L. (1986) Anal. Biochem. 156, 386-389. - Chellan, B. et al. (2014). IL-22 is induced by S100/calgranulin and impairs cholesterol efflux in macrophages by downregulating AGCB1. J. Lipid Res. 55:443-454. - Marino, A. et al. (2014). ITCH Deficiency Protects From Diet-Induced Obesity. Diabetes. 63:550-561.

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.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/serum-triglyceride/44586>