

Free Glycerol Assay Kit

Free Glycerol Assay Kit (Fluorometric)

CATALOG #
AAA44541

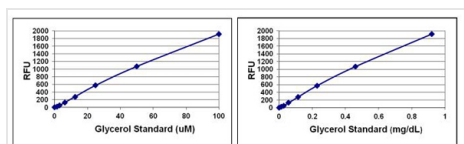
PRODUCT SYNONYMS

Free Glycerol; Free Glycerol Assay Kit (Fluorometric); Free Glycerol 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 Fluorometric Probe is light sensitive and should be maintained in amber tubes.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Free Glycerol assay kit	Background: Glycerol is the backbone of Triglycerides (TAG). Triglycerides are a type of lipid in the blood, serving as an energy source and play 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. Free Glycerol Assay Kit measures free, endogenous glycerol by a coupled enzymatic reaction system. The glycerol is phosphorylated and oxidized, producing hydrogen peroxide which reacts with the kit's Fluorometric Probe (Ex. 530-560 nm/Em. 585-595 nm). The Free Glycerol Assay Kit is a simple, fluorometric assay that quantitatively measures the amount of glycerol in plasma or serum in a 96-well microtiter plate format. Each kit provides sufficient reagents to perform up to 100 assays, including blanks, glycerol standards and unknown samples. The kit contains a glycerol standard and has a detection sensitivity limit of ~1 μM (0.009 mg/dL).
Product Categories/Family for Free Glycerol assay kit	Metabolism Research; Lipoprotein Metabolism; Glycerol Assays
References	1. Bortz, W.M., Paul, P., Hff, A.C., and Holmes, W.H. (1972) J. Clin. Invest. 51, 1537-1546. 2. Arner, P. (1995) Internation J. of Obesity and Related Metabolic Disorders 19(7), 435-442. 3. Ou, C-N and Frawley, V.L. (1985) Clin. Biochem. 18(1), 37-39. 4. Bernert, J.T., Bell, C.J., McGuffey, J.E., and Waymack, P.P. (1992) J. Chromatogr. 578, 1-7.

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.