abcam

Product datasheet

Free Glycerol Assay Kit (Fluorometric, High Sensitivity) ab174092

4 Images

Overview

Product name	Free Glycerol Assay Kit (Fluorometric, High Sensitivity)
Detection method	Fluorescent
Sample type	Serum, Plasma, Other biological fluids, Tissue, Adherent cells, Suspension cells
Assay type	Quantitative
Sensitivity	0.04 nmol/well
Species reactivity	**Reacts with:** Other species, Mammals
Product overview	Abcam's PicoProbe Free Glycerol Assay Kit (ab174092) is simple, sensitive and easy to use tool to detect small amounts of glycerol. This assay is suitable for measuring trace amount of glycerol in samples containing reducing substances, which may interfere with oxidase-based assays. In the assay, glycerol reacts with the enzyme mix to form an intermediate, which is subsequently oxidized with the production of fluorescence. The fluorescence intensity is directly proportional to the amount of glycerol. This assay kit can detect glycerol amount less than 40 pmol. Visit our FAQs page for tips and troubleshooting.
Notes	Glycerol is a central component for synthesis of all lipids; it acts as a backbone for triglycerides and phospholipids, which plays an important role for cell membrane's structure. Due to its low toxicity, glycerol is widely used in pharmaceutical, food and cosmetic industries.
Platform	Microplate reader

Properties

Storage instructions	Store at -20°C. Please refer to protocols.

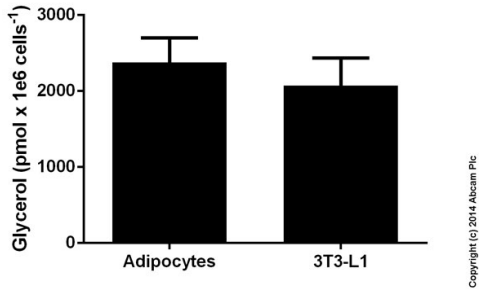
Components	Identifier	100 tests
Glycerol Assay Buffer	WM	1 x 25ml
Glycerol Developer		1 vial

Components	Identifier	100 tests
Glycerol Enzyme Mix (lyophilized)	Green	1 vial
Glycerol Standard	Yellow	1 x 0.2ml
PicoProbe	Blue	1 x 0.4ml

Relevance

Glycerol is widely used in foods, beverages, solvents, pharmaceutical and cosmetic products, etc. There is broad interest in quantification of glycerol for research and development.

Images

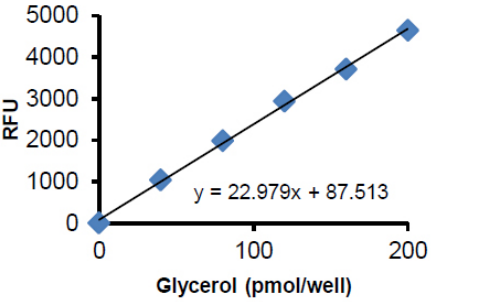


PicoProbe Free Glycerol Assay Kit (ab174092)

Free Glycerol measured in cell lysates showing quantity (pmol) per 1 mln cells.

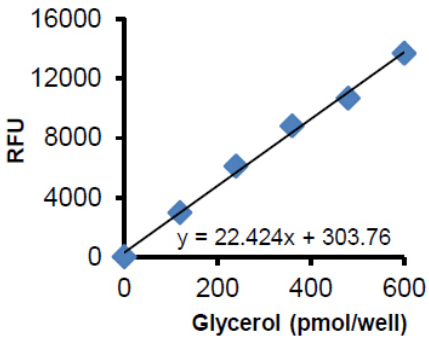
Samples with the concentration of 1e7 cells/mL were used.

Samples were diluted 2-6 fold.



Glycerol Standard Curve

Example of Glycerol standard curve following assay's protocol.



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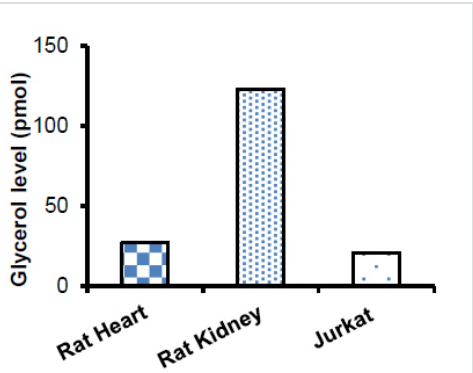

Measurement of Glycerol Levels

Measurement of glycerol levels in rat heart (5 µg protein), rat kidney (5 µg) and Jurkat cell lysate (10 µg) sample following PicoProbe Free Glycerol Assay Kit (ab174092) protocol. This is example data only.

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