

Glycogen Assay Kit

Cat. No. Kit-2440 Lot. No. (See product label)

SPECIFICATION

Product Overview

GLYCOGEN is a branched polysaccharide of glucose units linked by α -1,4 glycosidic bonds and α -1,6 glycosidic bonds. It is stored primarily in the liver and muscle, and forms an energy reserve that can be quickly mobilized to meet a sudden need for glucose. The most common glycogen metabolism disorder is found in diabetes, in which, due to abnormal amounts of insulin, liver glycogen can be abnormally accumulated or depleted. Genetic glycogen storage diseases have been associated with various inborn errors of metabolism caused by deficiencies of enzymes necessary for glycogen synthesis or breakdown. Simple, direct and automation-ready procedures for measuring glycogen concentrations find wide applications in research and drug discovery. glycogen assay uses a single Working Reagent that combines the enzymatic break down of glycogen and the detection of glucose in one step. The color intensity of the reaction product at 570nm or fluorescence intensity at $\lambda_{ex}/\lambda_{em}$ = 530/585 nm is directly proportional to the glycogen concentration in the sample. This simple convenient assay is carried out at room temperature and takes only 30 min.

Storage

4, -20°C

Shipping

On Ice

Size

100 tests

Detection method

OD570nm, or FL530/585nm

Compatible Sample Types

Biological

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Features & Benefits	Use as little as 10 μ L samples. Linear detection range: 2 to 200 μ g/mL glycogen for colorimetric assays and 0.2 to 20 μ g/mL for fluorimetric assays.
Assay time	30 min
Sensitivity	OD, FL: 2, 0.2 μ g/mL

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