

Glycogen Assay Kit

Cat. No. Kit-0379 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Glycogen Assay Kit is used for measuring glycogen levels.
Description	Glycogen is the primary short term energy storage molecule in animals, synthesized primarily in the liver and muscle. Glycogen is a branched glucose polymer, in α -1,4 linkage, with branching via α -1,6 linkage. Abnormal ability to utilize glycogen is found in diabetes and in several genetic glycogen storage diseases. The Glycogen Assay Kit is an easy and convenient assay to measure glycogen levels in biological samples. In the assay, glucoamylase hydrolyzes the glycogen to glucose which is then specifically oxidized to produce a product that reacts with OxiRed probe to generate color (OD 570 nm) and fluorescence (Ex/Em = 535/587). The assay can detect glycogen 0.0004 to 2 mg/ml.
Applications	• Measurement of Glycogen in various tissues/cells • Analysis of metabolism and cell signaling in various cells
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store kit at -20°C, protect from light and moisture. Briefly centrifuge all small vials prior to opening. Read entire protocol before performing the assay.
Kit Components	Hydrolysis Buffer 25 ml NMDevelopment Buffer 25 ml WMOxiRed Probe 0.2 ml RedHydrolysis Enzyme Mix lyophilized BlueDevelopment Enzyme Mix lyophilized GreenGlycogen Standard (2.0 mg/ml) 100 μ Yellow

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Detection method	Colorimetric, Fluorometric
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Compatible Sample Types	• Animal tissues such as liver etc. • Cell culture: adherent or suspension cells
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