

# Glucose Oxidase Activity Assay Kit

**Cat. No.** Kit-0383    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b> | Glucose Oxidase Activity Assay Kit is a quantitative colormetric/fluorometric determination of glucose oxidase activity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | The glucose oxidase enzyme (GOx) (EC 1.1.3.4) is an oxidoreductase commonly found in a wide variety of microorganisms that catalyzes the oxidation of glucose to hydrogen peroxide and D-glucono- $\delta$ -lactone. GOx aids in breaking the sugar down into its metabolites. Glucose Oxidase Activity Assay Kit provides a convenient tool for sensitive detection of the GOx in a variety of samples. Glucose oxidase in samples recognizes Dglucose as a specific substrate leading to proportional color development. The activity of GOx can be easily quantified colorimetrically ( $\lambda = 570$ nm) or fluorometrically (Ex/Em = 535/585 nm). GOx assay detects glucose oxidase activity as low as 0.01mU. |
| <b>Usage</b>            | For research use only (RUO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Store kit at -20°C, protected from light. Warm Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Read the entire protocol before performing the assay.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Kit Components</b>   | GOx Assay Buffer. Cap code: WM. 28 mlOxiRed Probe. Cap code: red. 0.2 mlGOx Substrate. Cap code: blue. 1 mlGOx Developer. Cap code: green. 1 vialGOx Positive Control. Cap code: purple. 1 vialH2O2 Standard (0.88 M). Cap code: yellow. 0.1 ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Detection method</b> | Colorimetric, Fluorometric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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**Compatible Sample  
Types**

Biological Fluid, Cell Homogenate

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