

Hydrogen Peroxide Colorimetric/Fluorometric Assay Kit

Product Information

Cat

Kit-1094

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Description

Hydrogen Peroxide is a reactive oxygen metabolic byproduct that serves as a key regulator for a number of oxidative stress-related states. Functioning through NF- κ B and other factors, hydroperoxide-mediated pathways have been linked to asthma, inflammatory arthritis, atherosclerosis, diabetic vasculopathy, osteoporosis, neuro-degenerative diseases, Down's syndrome and immune system diseases. Hydrogen Peroxide Assay Kit is a highly sensitive, simple, direct and HTS-ready colorimetric and fluorometric assay for measuring H₂O₂ in biological samples. In the presence of Horse Radish Peroxidase (HRP), the OxiRed Probe reacts with H₂O₂ to produce product with color ($\lambda_{max} = 570$ nm) and red-fluorescent (Ex/Em=535/587 nm). The kit can perform 200 reactions by fluorometric method or 100 reactions by colorimetric method. The detection limit can be as low as 2 pmol per assay (or 40 nM concentration) of H₂O₂ in the sensitive fluorometric assay.

Applications

The kit provides a highly sensitive, simple, direct and HTS-ready colorimetric assay for measuring H₂O₂ in biological samples.

Storage

-20°C

Shipping

Gel Pack

Size

200 assays

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Kit Components

H₂O₂ Assay Buffer; OxiRed; Probe; Dimethylsulfoxide (DMSO, anhydrous); HRP; H₂O₂ Standard (0.88M)

Target Species

Mammalian

Detection method Absorbance (570 nm) and fluorescence (Ex/Em 535/587 nm)

Features & Benefits

Simple procedure; takes less than ~1 hours;

Fast and convenient;

The kit can perform 200 reactions by fluorometric method or 100 reactions by colorimetric method.

The detection limit can be as low as 2 pmol per assay (or 40 nM concentration) of H₂O₂ in the sensitive fluorometric assay.