

Hydrogen Peroxide Colorimetric/Fluorometric Assay Kit

Cat. No. Kit-1094 Lot. No. (See product label)

SPECIFICATION

Description	<p>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-κB 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 (λ_{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.</p>
Applications	<p>The kit provides a highly sensitive, simple, direct and HTS-ready colorimetric assay for measuring H₂O₂ in biological samples.</p>
Storage	<p>-20°C</p>
Shipping	<p>Gel Pack</p>
Size	<p>200 assays</p>
Kit Components	<p>H₂O₂ Assay Buffer; OxiRed; Probe; Dimethylsulfoxide (DMSO, anhydrous); HRP; H₂O₂ Standard (0.88M)</p>

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Target Species	Mammalian
Detection method	Absorbance (570 nm) and fluorescence (Ex/Em 535/587 nm)
Features & Benefits	<p>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.</p>

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