

Resource Summary Report

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UC Davis - Hydrogen Peroxide

DOI:10.17504/protocols.io.ypqfvmw

Type: Protocol

Proper Citation

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[dx.doi.org/10.17504/protocols.io.ypqfvmw](https://doi.org/10.17504/protocols.io.ypqfvmw)

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.ypqfvmw>

Authors: Peter Havel

Group: Mouse Metabolic Phenotyping Centers

Summary: Summary: Hydrogen peroxide (H₂O₂) is a ubiquitous, toxic, metabolic by-product of aerobic respiration, oxidative stress, and oxidative injury. Cayman's Hydrogen Peroxide Assay Kit utilizes the well established xylenol orange detection method of quantifying the oxidation of ferrous ions (Fe²⁺) to ferric ions (Fe³⁺) by hydrogen peroxide. A unique feature of Cayman's assay is the inclusion of catalase as an H₂O₂ scavenger for the purpose of confirming the specificity of the reaction for H₂O₂. The sensitivity and the specificity of the assay make it well suited to accurately measure urinary levels H₂O₂ in a 96 well plate format. Each kit contains hydrogen peroxide, reagent 1, reagent 2, catalase, a 96 well plate, plate cover, and complete instructions.

Affiliations: University of California, Davis

External URL: <https://mmpc.org/shared/document.aspx?id=128&docType=Protocol>

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