



Hydrogen Peroxide Cell-Based Assay Kit

Product Information

Cat.No.

Kit-1964

Size

96 wells

Description

Reactive oxygen species, such as hydrogen peroxide (H₂O₂) and superoxide are generated by phagocytes and participate in damaging invading microorganisms or other biologic targets.¹ The H₂O₂ Cell-Based Assay Kit provides a simple fluorometric method for the sensitive quantitation of extracellular H₂O₂ produced by cultured cells. H₂O₂ is detected using ADHP (10-acetyl-3,7-dihydroxyphenoxazine), a highly sensitive and stable probe for H₂O₂.² In the presence of horseradish peroxidase, ADHP reacts with H₂O₂ with a 1:1 stoichiometry to produce highly fluorescent resorufin.³ Resorufin fluorescence can be read using an excitation wavelength between 530-560 nm and an emission wavelength of 590 nm. Catalase, an H₂O₂ scavenger, is included in the kit for checking specificity of the assay.

Storage

-20°C

Kit Components

Cell-Based Assay Buffer Tablet: 1 tablet; 1 tablet; RT Cell-Based Assay Hydrogen Peroxide Standard: 1 vial/100 µl; 1 vial/100 µl; 4°C Cell-Based Assay Hydrogen Peroxide Detector ADHP: 1 vial/100 µl; 1 vial/500 µl; -20°C Cell-Based Assay Horseradish Peroxidase: 1 vial/100 µl; 1 vial/500 µl; -20°C Cell-Based Assay Catalase: 1 vial/2 mg; 1 vial/10 mg; -20°C