

Hydrogen Peroxide (H₂O₂) Assay Kit | H₂O₂ assay kit

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CATALOG #
AAA332450

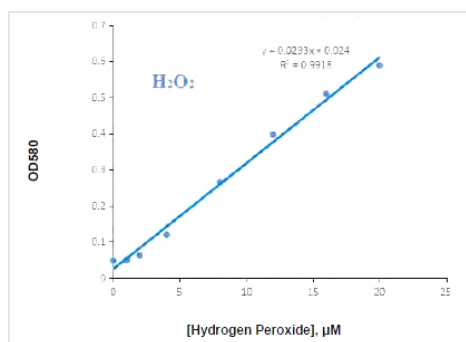
PRODUCT SYNONYMS

Hydrogen Peroxide (H₂O₂); Hydrogen Peroxide (H₂O₂) Assay Kit; H₂O₂ assay kit

PRODUCT SPECIFICATIONS

Samples	Serum, plasma, cell culture supernatants, tissue/cell lysates and other biological fluids
Preparation and Storage	Store at -20 degree C and keep from light immediately upon receipt. Kit has a storage time of 12 months from receipt. Refer to list of materials supplied for storage conditions of individual components.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for H₂O₂ assay kit	Principle of the Assay: Abbkine Hydrogen Peroxide Assay Kit provides a simple and easy colorimetric assay for measuring hydrogen peroxide in serum, plasma, cell culture supernatants, tissue/cell lysates and other biological fluids. In the assay, H₂O₂ oxidize ferrous to ferric ion, and xylenol orange binds ferric ion with high selectivity to form a colored (purple) product that can be measured by colorimetric method at OD 580 nm. The Hydrogen Peroxide present in the sample is proportional to the signal obtained.!!Background/Introduction: Hydrogen Peroxide (H₂O₂), a reactive oxygen metabolic by-product, which serves as both an intracellular signaling messenger and a source of oxidative stress. Hydrogen peroxide is generated in cells via multiple mechanisms such as the NOX-mediated ROS production by neutrophils and macrophages (respiratory burst) or by the dismutase of superoxide anions produced as a result of electron leak during mitochondrial respiration. Functioning through NF-kappaB and other factors, hydroperoxide-mediated pathways have been linked to asthma, inflammatory arthritis, atherosclerosis, diabetic vasculopathy, osteoporosis, neurodegenerative diseases, Down's syndrome and immune system diseases.
Product Categories/Family for H₂O₂ assay kit	Cell Metabolism

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.