Catalase Fluorometric Detection Kit

Cat. No. Kit-0180 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A sensitive assay that utilizes a non-fluorescent detection reagent to measure H2O2 substrate as a result of the reaction of catalase. The production of hydrogen peroxide in eukaryotic cells is an end product of various oxidases and superoxide dismutase reactions. Accumulation of H202 can result in cellular damage through oxidation of proteins, DNA and lipids thus resulting in cell death and muta-genisis.
Applications	Fluorescence plate reader
Usage	1. For Research use only. Not for use in diagnostic procedures.2. Practice safe laboratory procedures by wearing protective clothing and eyewear.3. The fluorescent product of the detection reagent is no stable in the presence of thiols (DTT or 2-mercaptoethanol). Keep these reactants below 5mM.
Storage	1. The kit contains multiple storage temperature components. Please see labels of individual components for storage instructions.2. Once a vial of the Detection reagent is opened, it should be used promptly and frozen since it is subject to oxidation by air.
Kit Components	Reagent-Storage Temperature1. 5X Reaction Buffer pH 7.4: 25mL, 2-8°C;2. Detection Reagent: 1 Vial, 2-8°C-Undiluted, Diluted: -20°C (Aliquot in Single Use Vials);3. Horseradish Peroxidase: 1 Vial, 2-8°C-Undiluted, Diluted: -20°C;4. Hydrogen Peroxide: 1 Vial, 2-8°C;5. Catalase Enzyme: 1 Vial, 2-8°C (Crystalline Suspension)
Features & Benefits	1. Sensitive Fluorescent Assay.2. Enzyme Positive Control included in kit.3. Can monitor multiple time points to follow kinetics.4. One-step, No Wash assay.5.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	Adaptable for High Throughput format.6. Monitors enzymatic activity.7. Applications- Fluorescent Plate Reader.

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