

# Catalase Fluorometric Detection Kit

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

## SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b>        | A sensitive assay that utilizes a non-fluorescent detection reagent to measure H <sub>2</sub> O <sub>2</sub> 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 H <sub>2</sub> O <sub>2</sub> can result in cellular damage through oxidation of proteins, DNA and lipids thus resulting in cell death and muta-genesis. |
| <b>Applications</b>            | Fluorescence plate reader                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Usage</b>                   | 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.                                                                                                                                                                    |
| <b>Storage</b>                 | 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.                                                                                                                                                                                                         |
| <b>Kit Components</b>          | 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)                                                                                                                                         |
| <b>Features &amp; Benefits</b> | 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](mailto: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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