

# Aldehyde Fluorometric Assay Kit

**Cat. No.** Kit-0071    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Aldehyde Assay Kit (Fluorometric) is a fluorescent assay for the quantification of aldehydes in a variety of applications.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | The formation, reactivity and toxicity of aldehydes originating from the peroxidation of lipids of cellular membranes have received great attention in recent years. Rapid and accurate measurement of aldehydes is an important task for biological research, chemical research, food industry and environmental pollution surveillance. There are a few reagents or assay kits available for quantifying the number of aldehydes. Most of the existing aldehyde test methods are based on separations either by the tedious and expensive HPLC-MS or GC-MS. |
| <b>Applications</b>     | Aldehyde Assay Kit (Fluorometric) is used for quantifying aldehydes at higher pH. This kit uses a fluorogenic dye that generates a strongly fluorescent product upon reacting with an aldehyde.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Usage</b>            | For research use only (RUO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Keep at -20°C. Avoid exposure to light.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Kit Components</b>   | Component A: AldeLight Blue 1 vial<br>Component B: Assay Buffer 30 mL<br>Component C: Reaction Buffer 6 mL<br>Component D: Aldehyde Standard 1 vial<br>Component E: DMSO 100 µl                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Detection method</b> | Fluorometric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

 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

**Features & Benefits**

Broad Application: Used for quantifying aldehydes in a variety of applications, such as enzyme reactions. Sensitive: Detect as little as 0.3 nanomole of aldehyde in a 100  $\mu$  assay volume. Continuous: Easily adapted to automation without a separation step. Convenient: Formulated to have minimal hands-on time. Non-Radioactive: No special requirements for waste treatment.

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