

# Lipid Peroxidation (MDA) Colorimetric/Fluorometric Assay Kit

**Cat. No.** Kit-0542    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | <p>Simple procedure</p> <p>Fast and convenient</p> <p>Sensitive assay for measuring lipid peroxidation (LPA) in a wide range of samples</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>Quantification of lipid peroxidation is essential to assess oxidative stress in pathophysiological processes. Lipid peroxidation forms Malondialdehyde (MDA) and 4-hydroxynonenal (4-HNE), as natural bi-products. Measuring the end products of lipid peroxidation is one of the most widely accepted assays for oxidative damage. Lipid Peroxidation Assay Kit provides a convenient tool for sensitive detection of the MDA in a variety of samples. The MDA in the sample is reacted with Thiobarbituric Acid (TBA) to generate the MDA-TBA adduct. The MDA-TBA adduct can be easily quantified colorimetrically (<math>\lambda = 532 \text{ nm}</math>) or fluorometrically (Ex/Em = 532/553 nm). This assay detects MDA levels as low as 1 nmol/well colorimetrically and 0.1 nmol/well fluorometrically.</p> |
| <b>Applications</b>     | <p>The kit detects MDA levels as low as 1 nmol/well colorimetrically and 0.1 nmol/well fluorometrically.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Usage</b>            | <p>For Research Use Only! Not For Use in Humans.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | <p>-20°C</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Size</b>             | <p>100 assays</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Kit Components</b>   | <ul style="list-style-type: none"> <li>• MDA Lysis Buffer</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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- Phosphotungstic Acid Solution
- BHT (100X)
- TBA
- MDA Standard (4.17M)

|                                |                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Target Species</b>          | All                                                                                               |
| <b>Detection method</b>        | Absorbance (532 nm) or Fluorescence (Ex/Em 532/553 nm)                                            |
| <b>Compatible Sample Types</b> | Cell and Tissue culture supernatants, plasma and other biological fluids (optimized by end user). |

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