

MDA Assay Kit

Cat. No. Kit-0543 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MDA Assay Kit is a quantitative colormetric/fluorometric determination of lipid peroxidation.
Description	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 biproducts. Measuring end products of lipid peroxidation is useful measure of oxidative damage. MDA Assay Kit provides a convenient tool for sensitive detection of the MDA in a variety of samples. MDA in the sample is reacted with Thiobarbituric Acid (TBA) to generate the MDA-TBA adduct which can be easily quantified colorimetrically (OD 532 nm) 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.
Usage	For research use only (RUO)
Storage	Store the kit at -20°C, protected from light. Allow all components to warm to room temperature before use. Briefly centrifuge vials before opening. Read the entire protocol before performing the assay. Store all reagents at -20°C.
Kit Components	MDA Lysis Buffer. Cap code: WM. 25 mL Phosphotungstic Acid Solution. Cap code: NM. 12.5 mL BHT (100X). Cap code: purple. 1 mL TBA. Cap code: NM. 4 bottles MDA Standard (4.17M). Cap code: yellow 100 µL
Detection method	Colorimetric, Fluorometric

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**Compatible Sample
Types**

Biological fluids, Cell Culture Supernatant, Plasma, Tissue Culture Supernatant

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