

Lipid Peroxidation Assay Kit

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CATALOG #
AAA71809

PRODUCT SYNONYMS

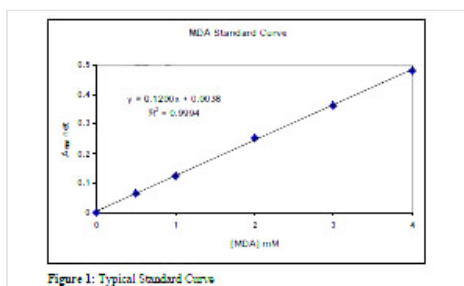
Lipid Peroxidation; Lipid Peroxidation Assay Kit; Lipid Peroxidation Colorimetric Assay Kit; Lipid Peroxidation assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage

1. The reagents are stable until the indicated kit expiration date if handled and stored properly.
2. When not in use, place the bottles at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Lipid Peroxidation assay kit

Principle of the Assay: This assay is based on the reaction of a chromogenic reagent, N-methyl-2-phenylindole (R1), with MDA at 45 degree C. One molecule of MDA reacts with 2 molecules of Reagent R1 to yield a stable chromophore with maximal absorbance at 586 nm.

Background/Introduction: Lipid peroxidation is a well-established mechanism of cellular injury in both plants and animals, and is used as an indicator of oxidative stress in cells and tissues. Lipid peroxides are unstable and decompose to form a complex series of compounds including reactive carbonyl compounds. Polyunsaturated fatty acid peroxides generate malondialdehyde (MDA) and 4-hydroxyalkenals (HAE) upon decomposition. The measurement of MDA has been used as an indicator of lipid peroxidation (1). This method is designed to assay MDA.

References

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4. Bull, A.W. and Marnett, L.J.; (1985) Analyt. Biochem. 149:284-290
5. Liu, J., et al.; (1997) Analyt. Biochem. 245:161-166
6. Mattson, J.P., et al.; (2002) Pathophysiology 8:215-221
7. Calvo, J.R., et al.; (2001) J. Cell Biochem. 80:461-70
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.