CREATIVE BIOMART®
Assay Kit

TBARS Assay Kit

Product Information

Cat.No. Kit-0811

Product Overview

TBARS Assay Kit provides a simple, reproducible, and standardized tool for assaying lipid peroxidation in plasma, serum, urine, tissue homogenates, and cell lysates.

Description

Malondialdehyde (MDA) is a naturally occurring product of lipid peroxidation. 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, derived from polyunsaturated fatty acids, are unstable and decompose to form a complex series of compounds, which include reactive carbonyl compounds, such as MDA. In human platelets, thromboxane synthase also catalyzes the conversion of PGH2 to thromboxane A2, 12(S)-HHTrE, and MDA in a ratio of 1:1:1. The measurement of Thiobarbituric Acid Reactive Substances (TBARS) is a well-established method for screening and monitoring lipid peroxidation. Modifications of the TBARS assay by many researchers have been used to evaluate several types of samples including human and animal tissues and fluids, drugs, and foods. Even though there remains a controversy cited in literature regarding the specificity of TBARS toward compounds other than MDA, it still remains the most widely employed assay used to determine lipid peroxidation. If lipoprotein fractions are first acid precipitated from the sample, interfering soluble TBARS are minimized, and the test becomes quite specific for lipid peroxidation. Lipids with greater unsaturation will yield higher TBARS values. It is recommended that if high TBARS values are obtained, a more specific assay such as HPLC should be performed.

Usage

For research use only (RUO)

Storage

This kit will perform as specified if stored at 4°C and used before the expiration date indicated on the outside of the box.

Kit Components

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Thiobarbituric Acid 1 vialTBA Acetic Acid 2 vialsTBA Sodium Hydroxide (10X) 1 vialTBA Malondialdehyde Standard 1 vialTBA SDS Solution 1 vial96-Well Solid Plate (Colorimetric Assay) 1 plate96-Well Solid Plate (black) 1 plate96-Well Cover Sheet 2 covers

Compatible Sample Types

Cell lysates, Plasma, Serum, Tissue homogenates, Urine

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