

TBARS Assay Kit

Cat. No. Kit-2431 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Oxidative attack of essential cell components by reactive oxygen species has been associated with several human diseases, such as atherosclerosis, cardiovascular diseases, diabetes, liver disorders, and inflammatory rheumatic diseases. THIOBARBITURIC ACID REACTIVE SUBSTANCES (TBARS) are low-molecular-weight end products (mainly malondialdehyde, MDA) that are formed during the decomposition of lipid peroxidation products. Increased levels of TBARS have been demonstrated in these diseases. Simple, direct and accurate assays for TBARS find wide applications in research and drug discovery. TBARS assay is based on the reaction of TBARS with thiobarbituric acid (TBA) to form a pink colored product. The color intensity at 535nm or fluorescence intensity at ($\lambda_{\text{ex/em}} = 530\text{nm}/550\text{nm}$) is directly proportional to TBARS concentration in the sample.

Storage -20°C

Shipping RT

Size 100 tests

Detection method OD535nm, or FL530/550nm

Compatible Sample Types Serum, plasma, urine, saliva etc

Features & Benefits Sensitive and accurate. Linear detection range: colorimetric assay 1 -30 μM , fluorometric assay 0.1 - 1.5 μM MDA.

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Assay time	80 min
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Sensitivity	0.1 μ M
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