

TBARS assay kit

TBARS Assay

CATALOG #
AAA71816

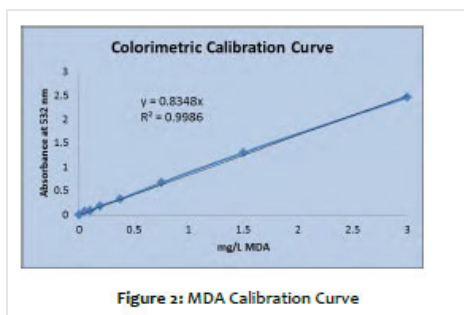
PRODUCT SYNONYMS

TBARS; TBARS Assay; TBARS assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage	4 degree C
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IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TBARS assay kit

Background/Introduction: Off-flavor odor development in lipids and lipid-containing foods is commonly attributed to the by-products of lipid peroxidation. Fats, oils, and other lipids react with oxygen to form peroxides, which then further decompose to give aldehydes, including malonaldehyde (MDA) and hexanal - both of which are associated with deterioration in meats.¹ Factors affecting the formation of lipid peroxidation products include how the product was stored, cooked, processed, and the addition of preservatives.² The traditional method used for detecting malonaldehyde is the 2-thiobarbituric Acid Reactive Substances (TBARS) assay. In this reaction, shown below in Figure 1, one molecule of malonaldehyde is condensed with two molecules of 2-thiobarbituric acid under heated acidic conditions to form a pink chromogen. This assay has been modified many times since its discovery in the early 1960's and has always required heating to approximately 100 degree C for longer than 30 minutes with a strong acid. Heating biological samples in an acidic solution generates colors that interfere with the TBARS assay and generates artificially high MDA values.

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.

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Online datasheet: <https://www.aaabiotech.com/assay-kits/tbars/71816>