

# Lipid Peroxide Measurement Reagent

for TBA-MDA method

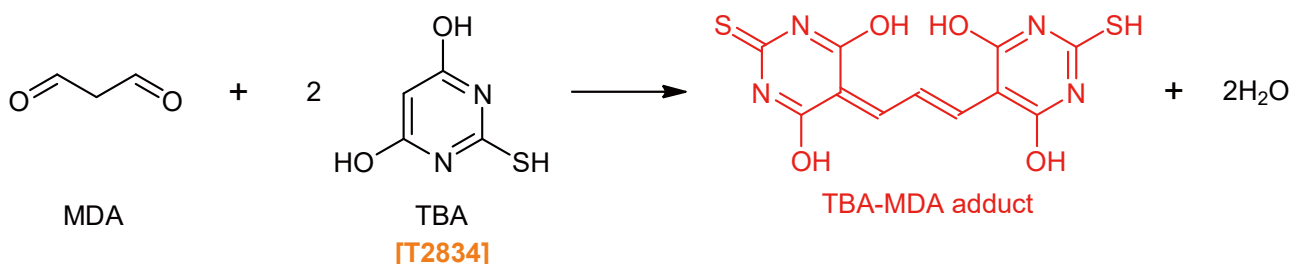
2-Thiobarbituric Acid [for Biochemical Research]

5g [T2834]

When unsaturated fatty acids are oxidized *in vivo*, malondialdehyde (MDA) is formed. 2-Thiobarbituric Acid (TBA) reacts with malondialdehyde under high temperature and acidic conditions to form a red complex, MDA-TBA adduct, with an absorbance maximum of 532 nm.

## Reaction Example

Unsaturated fatty acid  $\xrightarrow{\text{Oxidation}}$  MDA (Malondialdehyde)



## References

- M. A. Ramirez, D. M. Spillman, *Food Sci.* **1987**, 52, 500. <https://doi.org/10.1111/j.1365-2621.1987.tb06654.x>  
 S. P. A. Goss, N. Hogg, B. Kalyanaraman, *J. Biol. Chem.* **1997**, 272, 21647. <https://doi.org/10.1074/jbc.272.34.21647>  
 P. Hasani, N. Yasa, S. Vosough-Ghanbari, A. Mohammadirad, G. Dehghan, M. Abdollahi, *Acta Pharm.* **2007**, 57, 123. <https://doi.org/10.2478/v10007-007-0010-z>

## Related Products

Malondialdehyde Measurement Kit

1kit [M3637]

Malonaldehyde Bis(dimethyl Acetal) [for Biochemical Research]

5g [T2833]

\*T2833 can be used as an equivalent of malondialdehyde (MDA).

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