

## ABSTRACT

### THE EFFECT OF SOURSOP LEAVES (*Annona muricata L.*) ETHANOL EXTRACT ON MALONDIALDEHYDE (MDA) LEVELS OF BREAST TISSUE WHITE FEMALE RATS INDUCED DIMETILBENZ 7.12 ( $\alpha$ ) ANTRASEN (DMBA)

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Breast cancer can occur due to the accumulation of DNA damage by various mechanisms, one of which is a result of oxidative stress. The use of natural materials is necessary given the many side effects of cancer therapy. Soursop leaves *Annona muricata L.* be an alternative because it is a leaves that has potential as an antioxidant. The aimed of study to determine the antioxidant effect of ethanol extract soursop leaves *Annona muricata L.* were evaluated from the levels of malondialdehyde (MDA) breast tissue of female mice. This research is an experimental design with 4 treatment groups. Group K1, negative control; group K2, positive control was induced DMBA 20 mg/kgBW 2 times a week; P20 given DMBA 20 mg/kgBW 2 times a week + soursop leaf extract 20 mg/kgBW; and P40 given DMBA 20 mg/kgBW 2 times a week + soursop leaf extract 40 mg/kgBW. Measurement of MDA conducted using methods Wills. The test results of one way ANOVA test was obtain  $p < 0.005$ , showed that the ethanol extract of soursop leaves with a dose of 40 mg/kgBB has effect on MDA decreased levels of breast tissue female white rats that induced by DMBA.

**Keywords:** Ethanol Extract Soursop leaves, Malondialdehyde, Oxidative Stress