ABSTRACT

IN VITRO ANTICANCER ACTIVITY FROM ETHANOLIC EXTRACT OF SUGAR APPLE (Annona squamosa L.) SEED AGAINST SOME HUMAN CANCER CELLS

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This aimed study to determine the cytotoxic effect of ethanolic extract of Annona squamosa L. seed against T47D, HeLa, WiDr, and Raji cancer cells. Annona squamosa L. contains annonaceous acetogenin, which known has cytotoxic activity. Cytotoxic test is performed by MTT assay. The parameters obtained from the cytotoxic test was IC$_{50}$ values. IC$_{50}$.

The results showed that the seeds of Annona squamosa L. have cytotoxic activity with IC$_{50}$ values were 30.152 ± 2,124 µg/ml ; 33.289 ± 3,001 µg/ml ; 19.862 ± 2,645 ; and 8.008 ± 3,871 µg/ml for T47D cell, WiDr cell, HeLa cell, and Raji cell respectively.

**Keyword :** Anticancer, Annona squamosa L., in vitro, MTT method, T47D cell, WiDr cell, HeLa cell, Raji, cell.