

AKTIVITAS ANTI MAKAN EKSTRAK DAUN SIRSAK (ANNONA MURICATA L.) DAN PENGARUHNYA TERHADAP INDEKS NUTRISI SERTA TERHADAP STRUKTUR MEMBRAN PERITROFIK LARVA INSTAR V SPODOPTERA LITURA F.

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Abstract	Antifeeding activity of soursop leaf extract (<i>Annona muricata</i> L.) and its effect on nutrition indices and the microscopic structure of peritrophic membrane of the fifth-instar larvae of <i>Spodoptera litura</i> F. were studied. Antifeeding test was conducted by choice method. Discs of caisin leaf were dipped into the ether fraction of soursop leaf extract with concentrations of 0; 0.63; 2.50; and 10.00%. Nutrition indices and peritrophic membrane structure were observed by giving fifth-instar larvae one of the five diets, every group of diet was added to various concentrations of the ether fraction of soursop leaf extract, containing either 0; 0.63; 1.25; 2.50; and 5.00%. The result showed that soursop leaf extract had antifeeding activity at tested concentration 2.50%. Relative consumption rate (RCR), relative growth rate (RGR), and efficiency of conversion of ingested food (ECI) were significantly lower in the case of treated larvae than that of the controls. However the efficiency of conversion of digested food (ECD), approximate digestibility (AD), and peritrophic membrane structure treated with soursop leaf extract were not significantly affected as compared to those in controls.
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