UJI EFEKTIFITAS EKSTRAK DAUN DAN BIJI SIRSAK (Annona muricata) TERHADAP MORTALITAS LARVAULAT GRAYAK (Spodoptera litura F.)

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ABSTRACT

One causal of farm production result decreasing was the failed plant infection controlling. Grayak Caterpillar (Spodoptera litura) was one of the damaging infection to various farm plant like soybean, rice, corn, and the other. Grayak Caterpillar (Spodoptera litura) fest control was done by chemical insecticide usage. The un-control insecticide could cause negative effect to the neighborhood or living creature. To reduce the negative effect of pesticide, there used a Unity Fest Control, one of them was by using botanical insecticide through soursop (Annona muricata) seeds and leaf extract containing annonain compound which worked as stomach and contact poison and had character as anti-feed and repelen.

The research aimed to find the influence of various leaf, seed, and mix extract of soursop (Anona muricata) leaf and seed to the mortality of grayak caterpillar (Spodoptera litura) larva. And also to find out the most effective concentrate of leaf extract, seed extract, and mix extract of soursop (Anona muricata) seed and leaf to the mortality of ‘grayak’ caterpillar larva (Spodoptera litura). The research was done at Chemical Laboratory University of Muhammadiyah Malang at December 11th - 18th 2008. Population was ‘grayak’ caterpillar larva (Spodoptera litura) which developed in The Center of Tobacco Plant and Fiber Development in Malang. The samples were 480 in instar 3. Research method used Complete Random design by using two treatments. They were extract and concentrate with 4 repeating factor. Leaf extract concentrate, seed extract and mix extract of leaf and seed were 5% 5%, 10% and 15%. Parameter measured were death larva in 3 x 24 hours by different concentrate.

Data found were analyzed with normality test, homogenity test, anava 2 factor, and Duncan test. In the research there were two different of ‘grayak’ caterpillar (Spodoptera litura) mortality difference caused by leaf, seed and mix extract of soursop (Anona muricata) leaf and seed for 3 x 24 hours. According to the research, the most effective extract to the mortality of ‘grayak’ caterpillar (Spodoptera litura) larva was the mix of soursop (Anona muricata) leaf and seed with 15% concentrate.