

Adipokinetic effect of corpora cardiaca extract in *Valanga nigricornis* (Burm.)

ABSTRACT

1. The effect of injection of corpora cardiaca (CC) extract on haemolymph lipid concentration of *V. nigricornis* was studied.
2. The CC extract caused a marked increase in the haemolymph lipid, which attained a peak at about 1 1/2 hr after injection. At longer intervals of up to 4 hr, this response was markedly diminished.
3. The results were considered in relation to the natural habit of the insect; it is suggested that the adipokinetic effect probably represents an adaptive mechanism to non-flight physiological conditions like starvation.

Keyword: Corpora cardiaca (CC) extract; Adipokinetic effect; *Valanga nigricornis*