

Histological study of SINPV infection on body weight and peritrophic membrane damage of *Spodoptera litura* larvae

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Abstrak

Sanjaya, Machmudin D, Kurniawati ND. 2010. Histological study of SINPV infection on body weight and peritrophic membrane damage of *Spodoptera litura* larvae. *Nusantara Bioscience* 2: 135-140. The effect of SINPV infection on body weight and peritrophic membrane damage of *Spodoptera litura* Fab. larvae has been carried out. The method was used Probit analysis, and based on LD 50 the virus was infected to know body weight and post infection damage. The damage of histological structure caused by SINPV (0, 315, 390, 465, 540 dan 615 PIB/mL) was investigated after 0, 12, 24, 72 and 96 hours post infection. The histological material was prepared by using parafin method after fixation with Bouin Solution, then slice into 7 um and colored with Hematoxilin-Eosin. The result showed that the exposure SINPV cause decreasing food consumption especially on 540 PIB/mL give average rate as amount of 0.1675 mg. The descriptive observation on structural intact of peritrophic membrane histology caused by SINPV infection shows a tendency to decrease, while in control, there was no damage at all. The longer the exposition of virion in the midgut lumen the more damage on peritrophic membrane occurred. The severest damage occurred 96 hour after infection. The result prove that haNPV virion can destroy hystological structure of midgut