

Third-instar larvae of *Spodoptera exempta* (Wlk.) were fed on young maize leaves treated with 20 μ l of polyhedral inclusion body (PIB) suspension of concentrations that varied from 1.6×10^2 to 1.6×10^9 PIBs/ml. Daily observations were made on mortality rates. A probit analysis on the results gave an LD50 of 48.4 PIB/larva (lower and upper fiducial limits 39.2 and 59.4 PIBs/larva, respectively), and an LT50 that varied from 146.2 to 221.3 h, depending on the dosage. The results show the high pathogenicity of *S. exempta* nuclear polyhedrosis virus for its host.