

ABSTRACT

Haemolymph of adult *Edessa meditabunda* was extracted and used in the identification of proteins by polyacrylamide gel electrophoresis (SDS-PAGE) and the total protein content by the Lowry method. There were a total of four (4) protein bands present in the haemolymph of control adults, all of which had molecular weights of >138.7 kDa. There was a gradual increase in the number of bands from Day 1- 3 post infection by *Paecilomyces lilacinus*. Two new protein bands (104.7kDa and 49.5kDa) appeared on Day 3 post infection. The total haemolymph protein concentration was significantly higher in the control compared to all three days post infection. Mean *in vitro* radial colony growth for *P. lilacinus* was fastest at 20°C and slowest at 35°C. The LC₅₀ for adult *E. meditabunda* using *P. lilacinus* was determined to be 6.32×10^5 spores/ml. At this concentration, 50% mortality (i.e. LT₅₀) of *E. meditabunda* was achieved in 1.95 days.