

Article title

**Pathogenicity and Antibiotics Effect on Five Bacterial Strains
associated with *Bombyx mori* L.**

Abstract

The study was conducted on silkworm, *Bombyx mori* L., to clarify the extent of the bacterial toxicity against the fourth and fifth larval instars and the effect of certain antibiotics on the isolated bacteria from silk worms. The obtained results show that only two bacterial strains of five isolates are pathogenic, identified as *Bacillus megaterium* and *Bacillus circulans* where The LC50 of *Bacillus megaterium* were 9.9×10^5 and 2.9×10^6 while the LC50 of *Bacillus circulans* were 8.65×10^6 and 2.2×10^7 cfu/ml for fourth and fifth larval instars, respectively. The fourth larval instar was more sensitive than the fifth depending on the of relative sensitivity values between the two tested instars. Antimicrobial activity of antibiotics by disc diffusion method showed that all isolates were very sensitive against three antibiotics included in this study only (Noroxin, Tarivi D and Flumox).