BIological aspects of eriopis connexa (germar) (coleoptera: coccinellidae) with different insect pest f the maize and sorghum agroecosystems

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Eriopis connexa (Germar) (Coleoptera: Coccinellidae) may be found in several South American countries and their mass scale rearing procedure is important for biological control programs. The objective of this work was to evaluate some biological aspects of the immature phases of E. connexa using as food source, eggs (frozen by one day) of Anagasta kuehniella (Zeller) (Lepidoptera: Pyralidae), eggs (fresh) of Diatraea saccharalis (Fabricius) (Lepidoptera: Pyralidae), eggs (frozen) and newly hatched caterpillars of Spodoptera frugiperda (J. E. Smith) (Lepidoptera: Noctuidae), nymphs of Rhopalosiphum maidis (Fitch) or of Schizaphis graminum (Rondani) (Hemiptera: Aphididae) reared inside acclimatized room under 25±1ºC, 70±10% RH and 12 hours of photophase. The experimental design was entirely randomized block, with four replications, each one composed by 10 larvae of E. connexa, except for the treatment with nymphs of R. maidis, with five larvae for replication. The preys were offered ad libitum. Period of time for larva, pupa and larva-adult varied according to food source. Pre-pupal period was similar among treatments. Viability of the larval, pupal, pre-pupal and larva to adult period of E. connexa was the equal among or greater than 87.5% in all the treatments, except for that with newly hatched larvae of S. frugiperda as food source. Eriopis connexa showed a good capacity to adapt to the different food source, which is an evidence of the polyphagous predation habit of the Coccinellidae family. In the field, that predator is not restricted to only one food source and it can modulate its diet with alternative prey, which is also an evidence of the potential of the species as a natural enemy to be used against corn and sorghum insect pests.