



PRODUCTION AND EVALUATION OF CONIDIA OF *Metarhizium anisopliae* PRODUCED ON SUPERFICIAL MEDIA INFECTED *Sphenarium purpurascens*.

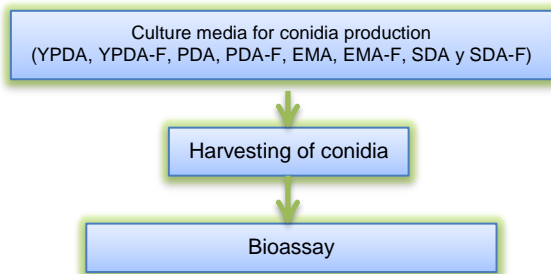
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Introduction. The entomopathogenic fungal are the most important group has Agent of Biologic Control (ABC) of insects pest¹. *Metarhizium anisopliae* and *Beauveria bassiana* are the fungal common used². The insect *Sphenarium purpurascens* cause economic damage in the agriculture in Tlaxcala, México. In this work we evaluated different culture media for the conidia production of *Metarhizium anisopliae*. In addition, the conidia were assayed on adult insect *Sphenarium purpurascens*.

Methods. Eight culture media were used for the conidia production of *Metarhizium anisopliae* var. *lepidiotum*



Sphenarium purpurascens were infected by immersion during three seconds with the conidial suspension (1×10^8 conidia/ml) harvested in each culture media. The bioassay parameters were adjusted by the mathematical model reported³, were: LT_{50} is lethal Time 50; t_0 time delay for the first death and k , specific death rate.

Results. The effect of carbon o nitrogen source in the culture media produced different value of productivity on conidiation of *Metarhizium anisopliae* Fig. 1. These conidia not showed significant difference $P < 0.05$ in each bioassay parameter Fig 2.

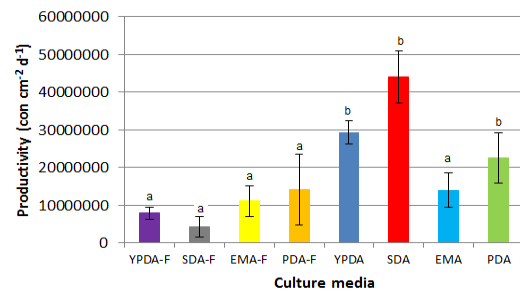


Fig.1 Production of conidia of *Metarhizium anisopliae* in various culture media

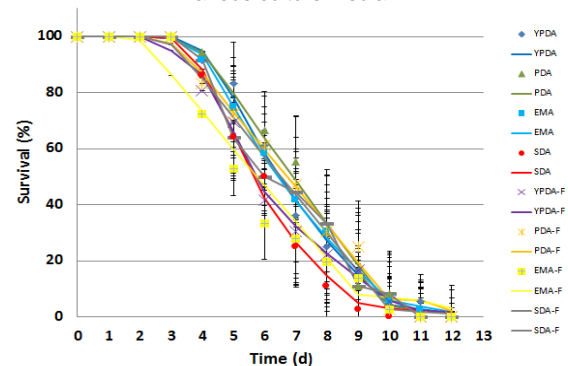


Fig 2. Survival of *Sphenarium purpurascens* infected by *Metarhizium anisopliae* conidia obtained in superficial media.

Conclusion. The source of carbon or nitrogen in the culture media affect to conidial production of *Metarhizium anisopliae* without affect to infectivity on *Sphenarium purpurascens* insect.

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