

EFFECT OF INSECTICIDE ON IN VITRO POLLEN GERMINATION OF *LYCOPERSICON ESCULENTUM* (MILL.) OF F1 HYBRID VARIETY LAXMI

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ABSTRACT

Pesticides have become an essential part of modern agricultural practices. Pesticides help to reduce pests, which in turn improves various parameters like high yielding, quality of crop, shelf life, etc. In the present investigation, the effect of insecticide Profex super (Profenofos 40% + Cypermethrin 4% EC) was studied on *in vitro* pollen germination of tomato (*Lycopersicon esculentum* Mill.). Insecticide was applied as recommended (30ml/15L), and doubles the recommended dosages (60ml/15L) under field conditions. In recommended dosage, germination goes on decreasing, as the dosage increased as compared to control. In double the recommended dosages, germination again found to decline, as compared to recommended dosages and control.

KEYWORDS: F1 Hybrid, Gibberellic Acid, Improved Germination Medium, In Vitro Pollen Germination, Insecticide, *Lycopersicon Esculentum*