



INSECTPROTECT

EFFICACY EVALUATION

RESULTS OF THE USE OF INSECTICIDE
Paecilomyces fumosoroseus

Insect Protect-P. fumosoroseus is a bioinsecticide whose action is based on the entomopathogenic activity of the fungus *Paecilomyces fumosoroseus* on pests from the orders *Hemiptera* and *Homoptera*. It also has an effect on *Lepidoptera* and *Diptera*, insect genera that affect agricultural crops. **Insect Protect-P. fumosoroseus**, when applied, penetrates the insect through the action of enzymes that break down the exoskeleton, multiplying in the hemocoel and producing toxins that cause the insect's death. Subsequently, the fungus colonizes the entire interior of the host, until the mycelium emerges, passing through the tegument, sporulating on the surface of the insect, and finally, the propagules are disseminated into the environment. **Insect Protect-P. fumosoroseus** is an innovative product that contains a combination of spores and mycelium, which increases the speed and intensity of biocontrol compared to other products made only from fungal spores.



FIELD INFORMATION

Location:

Study conducted by the company SAVE Consultores,
Bogotá, Colombia

Sample size:

Five repetitions with 25 units per repetition.

Analysis design:

- The evaluation was carried out by contact and ingestion of adult and immature mites from rose plants.
- A dose of 5 ml/L was used.
- The application was through spraying onto the tissue and individuals.
- Mites without treatment were used as the control group.

EFFICACY EVALUATION

A single application of the product was made through spraying onto the tissue and individuals, under conditions of 50% RH and 20°C temperature. After 7 days, a count of the living individuals was performed.



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RESULTS

Table 1 shows the comparison of the efficacy percentage of the product on adult mites and immature mites. As observed, the product shows **81%** efficacy when applied to adult mites and **92%** efficacy when applied to immature mites.

Treatment	% of efficacy
Adult mite	81%
Immature mite	92%

Table 1. Comparative table of efficacy percentage.