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(57) Abstract :
The present invention relates to a biopesticide composition comprising naturally occurring entomopathogenic fungi Metarhizium anisopliae, detergent powder, turmeric powder, chili powder, and optional biopesticidal agents like neem oil. The formulation effectively controls a broad spectrum of insect pests through multiple modes of action. Metarhizium anisopliae infects and kills pests, detergent powder disrupts the insect cuticle leading to dehydration, turmeric powder acts as an antimicrobial and insect repellent, while chili powder's capsaicin deters and kills pests. The composition can be formulated as a dry powder or liquid spray, applied as a foliar spray or soil drench. The biopesticide is eco-friendly, cost-effective, and compatible with Integrated Pest Management (IPM) programs. It reduces dependency on synthetic pesticides, ensuring sustainable agricultural practices and enhanced crop protection.

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