

## MASS PRODUCTION OF BEAUVERIA

Entomopathogenic fungus used for the biological control of Lepidopteran caterpillars, grubs of pseudostem weevil of banana etc. The fungus is otherwise called as white muscardine fungus. The fungus spores and mycelia are milky white and found sprouting on the body of lepidopterous insects like *Helicoverpa armigera*, *Spodoptera litura* and *Anadevidia peponis*.

### PREPARATION OF MOTHER CULTURE

- Media – SMAY (Sabour's Maltose Agar and Yeast) media
- Media composition- Peptone(10g), Maltose(40g), Yeast(2g), Agar(20g), Distilled water(1000ml)
- Sterilization of media at 121 degree Celsius for 20 min in autoclave
- Medium cooling
- Test tubes kept in slanting position in Laminar air flow apparatus
- Inoculation with 22 to 30 days old fungal disc
- Incubation at room temperature for 10 to 15 days



## MASS MULTIPLICATION

- Broth is poured at the rate of 300 ml per bottle
- Sterilized at 121 degree Celsius for 20 min in autoclave Cooling
- Inoculated with mother culture
- Kept for 10 to 15 days at room temperature
- Fungal growth along with broth collected and homogenized in a blender
- Mixed with particular formulation (talc or oil)
- Packed, sealed and labelled.



*Beauveria* infested *Spodoptera litura*