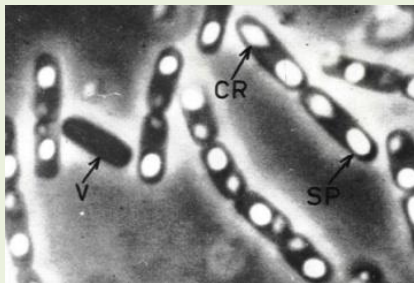


Biopesticide for Insect Pest Control in Agriculture



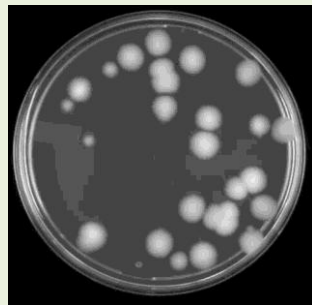
Bt kenyae HD-549



Pod borer

Bacillus thuringiensis subsp. *kenyae* HD-549

- ❖ Wettable powder (WP) biopesticide formulation
- ❖ Active against 14 different insect pests of crops
- ❖ Mass production optimised using industrial-scale (2000 L) fermentor
- ❖ Recommended by 2 Agri. universities in 'Package of Practices for Farmers' for bollworm control.
- ❖ Technology transferred to 3 Agro industries



Btk HD-549



Untreated

Btk treated



Mass production



WP

Development of biopesticides for agricultural insect pest and mosquito control

- Insecticidal proteins from *Bacillus* and *Photobacterium* sp. have been purified and characterised
- Mass production of *Bacillus thuringiensis* subsp *kenyae* (Btk)/*B. thuringiensis* subsp. *israelensis* (Bti) has been optimized in 2000 L fermentor
- Multi-location field evaluation of *Bt kenyae* and *Bt israelensis* biopesticides for insect pests and mosquito control (In collaboration with State Agri. Universities and ICMR/NCDC)
- BARC Btk biopesticide is included in 'Package of Practices for Farmers' by UAS, Dharwad and UAS, Raichur for the control of pod borer (*Helicoverpa*) on Pigeon pea and Chickpea crops