



Abstract # RTCM16_P_14_D2D

Screening of new Bt proteins against regional cotton lepidopteron pests in India using *E. coli* direct bioassay method

PONNUSAMY, THILLAICHIDAMBA; NAIR, RUPA V.; AHRENS, JEFFREY E

ABSTRACT

To speed up protein screening, we have adopted a strategy called "E.coli Direct Bioassay" wherein we express the protein in E.coli harboring the desired plasmid. The crude proteins were used for insect bio-assay. This approach should not only gain time but also result in early decision making. At MRC we received 21 plasmid constructs for bio-assay. Plasmids were mobilized in to E.coli, expressed and tested against Lepidopteron insect pests. These were scored for average percentage mortality and average percentage efficacy.















