

## Biopesticide for *Fusarium* Wilt (Foc TR<sub>4</sub>) of Cavendish Bananas

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### Technology Overview

ACTICon is a biopesticide made particularly against the devastating *Fusarium* wilt (Foc TR<sub>4</sub>) or more commonly known as the Panama disease of Cavendish bananas.

The technology offers a preventive approach to reduce the infection rate of *Fusarium*. Results of field trials show that the mortality rate decreased upon the application of ACTICon from 100% to 25%. Fruit yield of plants treated with ACTICon also increased by 300% compared to uninoculated plants.

### Features and Specifications

ACTICon is mixed with water (1 kg : 3L ratio) to form a solution which is used to:

- Submerge the planting materials and
- Drench the soil prior to transplanting

### Market Trends and Opportunities

- The Philippine banana industry has over 440 thousand hectares of production area.
- As of March 2017, around 15,000 hectares of banana plantations are already affected by the Panama disease in Mindanao alone.
- Industry loss due to the infestation is around 721.5 thousand metric tons of bananas worth 333 million US Dollars.



### Customer Benefits

- Controls *Fusarium* wilt infestation
- Lower mortality rate in banana plantations
- Improved plant height and girth
- Improved fruit yield
- Cost-efficient
- Replaces the use of conventional methods such as chemical application and burning of infected plants
- Safe for farmers' health
- Safe for the environment

### Potential Applications

Cavendish banana plantations