

Environmental Friendly Tomato Fungicide

TECHNOLOGY DESCRIPTION

This technology is a method of developing biological control of tomato bacterial diseases using *Psidium guajava* extracts as environmental friendly surfactant and active ingredient.

TECHNOLOGY FEATURES

This technology can be used to produce a commercial pesticide. It is very stable at different temperatures (-4 – 55 °C) and can maintain its effectiveness for a long period of time. It is able to control bacterial and fungal pathogens simultaneously. It also provides consistently effective control of targeted microbial agents and easy to handle. This technology serves as an alternative to hazardous chemical fungicides.

ADVANTAGES

- has longer shelf life
- free from undesirable side effects
- environmental friendly

INDUSTRY OVERVIEW

Prospect industry: Fungicides market, Agrochemical and pesticides, Crop protection market

The potential market for this invention is in agrochemical and pesticide industries. Malaysian agrochemical sales in 2003 registered RM23 million. Malaysia biopesticide market is estimated to reach \$5.95 million by 2021, growing at a CAGR of 13.2% from 2016 to 2021. Cash crops is projected to be the fastest-growing segment of Malaysia biopesticide market on the basis of crop type from 2016 to 2021. Distribution channel for this product are mainly importers and dealers of pesticides. The fungicide market includes fungicides manufacturers, importers and crop growers such as tomato planters. Two of the leading suppliers of fungicides in Asia is Zagro and DuPont Agriculture. Zagro manufactures, distributes and markets a wide range of plant protection products including fungicides, herbicides and insecticides.



Assoc. Prof. Dr. Kamaruzaman Sijam
Faculty of Agriculture