

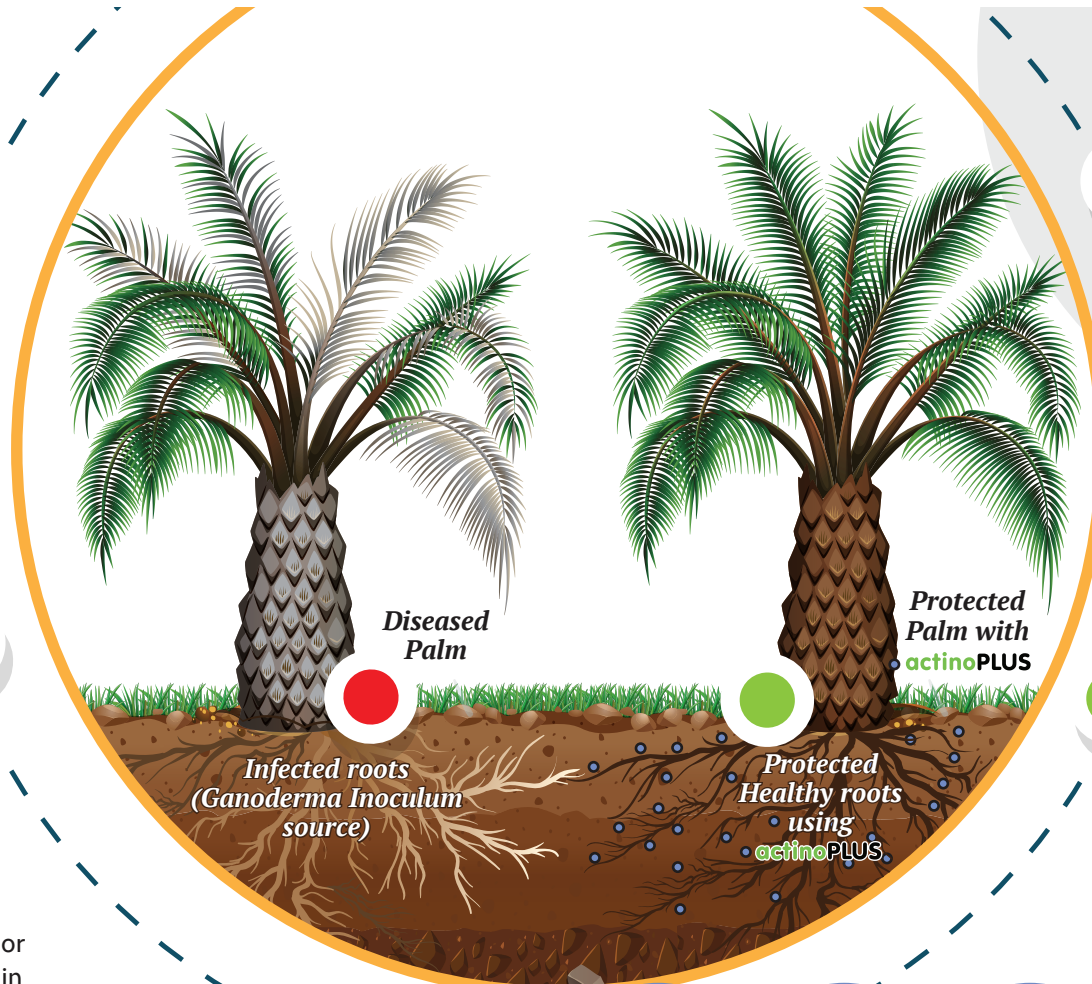
The Problem

The white rot fungus, *Ganoderma boninense*, which causes the Basal Stem Rot (BSR) disease, is considered as a major threat to the lucrative palm oil industry in south-east Asia. Unfortunately, the pathogen typically destroys a significant amount of a palm's base before signs of infection appear.

The Solution

We recommend an enhanced preventive strategy that focuses on to minimizing the entrance of the pathogen to healthy palms.

Approach: incorporate **EMBIO® actinoPLUS** (*Streptomyces nigrogriseolus*), a proven & effective Biological Control Agent (BCA), into current cultural methods for sanitation, to significantly reduce the disease incidence.

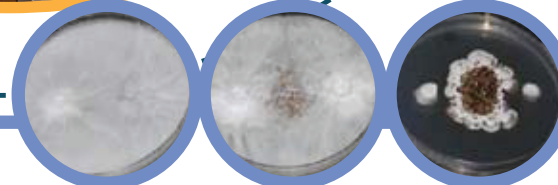


Elevate Your Palms to Ganoderma-Proof with actinoPLUS

The Benefits

Streptomyces nigrogriseolus is a game-changer in the fight against BSR. Here's why:

- **Ganoderma Defense:** *Streptomyces* will act as a shield against *Ganoderma* by releasing metabolites which have antifungal properties.
- **Enhanced Palm Health:** *Streptomyces* strengthens the palm's immune system, promoting vigorous growth.
- **Higher Yields:** Healthy palms mean higher-quality fruit and increased harvests.
- **Sustainable Agriculture:** Protect your investment while contributing to a greener, healthier environment.



Left: *Ganoderma* control plate, middle: vermiculite+biochar control plate, right: **EMBIO® actinoPLUS** plate. *GanoSA1* in **EMBIO® actinoPLUS** Inhibited *Ganoderma* with 100% Percent Inhibition of Radial Growth (PIRG)

Our Product Delivers Proven Results:

- **Laboratory Testing:** 100% Inhibition of *Ganoderma* Radial Growth.
- **Nursery Testing:** 65.2% reduction in BSR treated Seedlings
- **Field Testing:** 75% of untreated seedling showing signs of BSR and died compare to only 6.7% seedling treated with **EMBIO®**
- **Safety Testing:** Proven safe through toxicological studies at the University Sains Malaysia (USM)

