Sabel-X -earlier harvest, higher quality with less bruising

Application Rates

Crop	Dosage	Comment
Vegetables (seed treatment)	2.4g/kg seed - small seeds 1.2g/kg seed - large seeds 30g/25kg seed - large seeds	Apply as dry seed treatment prior to planting.
Vegetables (in furrow & irrigation)	500g/ha	Dissolve 500g in 15L non-chlorinated water and add to mixing tank. A calibrated injection pump is recommended for even distribution. Apply directly at planting or within a week of planting.

Exceptional Grower Feedback!

"Our new approach is working and we are now successfully harvesting a spinach crop. We had been losing 80% of our crop and now we've got losses down to about 2%.

This is one of our major lines and we are harvesting about eight tonne of spinach per week.

In the summer we can turn a crop around in 23 days and then we start again.

That intensity of production means we need to replenish the soil.

The new products have helped us a lot. They've proved economical and are working for us."

Kevan Dobra, The Loose Leaf Lettuce Company, WA

Learn more online

View Trials, Soil Health Calculator, and access the Resource Library.

sustainablefarming.com.au

SUSTAINABLE FARMING SOLUTIONS
Sabel-X HORTICULTURE
UNLOCK YOUR CROP'S GENETIC POTENTIAL

Leafy Greens

Improve yield with next generation Endophytic Trichoderma

> **We had been losing 80% of our crop and now we've got losses down to about 2%**

IMMEDIATE ACTION

SWITCHES ON GENE PATHWAYS

TYPICALLY 1 APPLICATION

30+ YEARS IN THE MAKING!

NOT AFFECTED BY FUNGICIDES

ROBUST MICROBE

What Endophytic Trichoderma do

Quickly enter the plant, and once inside, produce metabolites via a symbiotic relationship that switch on genes, whose pathways have a positive influence across the whole plant including:

Germination	**Growth and vigour**
Photosynthesis	**Root development**
Disease resistance	**Stress resistance**
Yield & Quality	**Water utilisation**

The process of switching on gene pathways is a dynamic process and changes depending on the conditions within the plant. New technologies track the "switching on" of these gene pathways.

Endophytic Trichoderma | Live inside the plant, not in the soil

Harness the power of nature

Trichoderma - 3 types

There are 3 very different types of Trichoderma with different functions:

FREE LIVING

Live in the general soil mass. They break down soil organic matter and help build soil health with long term benefits. They are subject to pH, waterlogging, heat etc and need regular applications.

- Fungicides kill them
- Require multiple applications

RHIZOSPHERE COMPETENT

Live in the rhizosphere with strains selected to outcompete fungal pathogens and colonise the plant root system more aggressively.

- Fungicides kill them.
- Require multiple applications

ENDOPHYTIC TRICHODERMA

Immediately enter the plant and produce metabolites which then induce different plant responses depending on what the plant needs.

Fungicides do not kill them because Sabel-X Trichoderma live between plant cells.

Typically one application because Sabel-X Trichoderma lives as long as plant does.

Soil Health Benefits of Sabel-X Endophytic Trichoderma:

Rhizosphere Impact - Even though Endophytic Trichoderma do not live in the rhizosphere, they produce metabolites to trigger responses in the rhizosphere.

They:

- Encourage beneficial fungi and bacteria
- Stimulate root exudates to feed soil microbes
- Accumulate organic matter

Improved growth with Sabel-X

Improved growth with lettuce - winter trial

"Lettuce usually cut once. Regrowth allowed an extra cut."

UNLOCK YOUR CROP'S GENETIC POTENTIAL

Why Endophytic Trichoderma Work

- Immediate response - inoculates within 16-48 hours and starts producing metabolites.
- Lives between cells within the plant - not affected by fungicides
- Typically one application only - live as long as plant
- Weathers tough conditions - not impacted by soil biology, soil pH and other adverse soil conditions - free living Trichoderma live in the soil and are impacted by soil conditions
- Micro-encapsulated for compatibility and robustness, even with phosphates and contact fungicides.
- Unique - only 12 strains worldwide representing 1% of Trichoderma - 30+ years in the making!

Bigger, beefier plants - larger circumference
Hydroponics - transplanted 10/9/19; Assessment 7/10/19

Plants treated at nursery - 80,000 plants/ha
Control - 64 plants lost ; Sabel-X - 29 plants lost

Prior to Sabel-X program, lettuce usually cut once.
After program - regrowth allowed an extra cut.

Hydroponic Asian vegetables - larger beefier plants with Sabel-X Hort. Thicker stems that harvested earlier.

"Sabel-X has helped us with our high intensity production - turning around crop every 23 days."