SUSTAINABLE
FARMING SOLUTIONS

UNLOCK YOUR CROP'S GENETIC POTENTIAL
SABEL-X - COACH OF RHIZOSPHERE MICROBES

Chipping Potato Trial

Sabel-X - amplifies return on investment 3.75 times

Return on Investment above control
Vitazyme ST - $564.40/ha with $95/ha input (5.94 : 1)
Vitazme ST + Sabel-X Hort - $2,118.00/ha with $260/ha input (8.15 : 1)

Grower challenge: Regional challenges include low average yields (38t/ha), a short growing season and late planting. The aim was to improve yield and profitability by selecting products that could help overcome these growing restraints.

Goal: To get the benefits of yield increases with Sabel-X Hort more cost effectively by taking advantage of its amplifying effect with Vitazyme ST.

Sabel - X Trichoderma - a new breakthrough microbe that maximises the biological potential of the soil.

It is an endophyte (gets inside the plant) and activates the microbes in the rhizosphere of the soil via signalling.

It is important to activate these rhizosphere microbes because they are focused on keeping the plant in an optimal state of photosynthesis and health, which is critical to maximising the crop's potential.

If there are more microbes to activate as a result of adding a root stimulant, then Sabel-X Trichoderma have a bigger group of microbes to select from, and can therefore activate a better team of microbes to help the plant.

Sabel-X Trichoderma are a game changer microbe because they essentially coordinate the activity of the beneficial rhizosphere microbes, acting like coaches to amass the best "A Team" set of beneficial microbes at any given point in time to benefit the plant.

Crop, variety & density: Chipping Potato variety Frito-Lay 1857 @ 3000kgs/hectare

Trial commencement: Sown 15th – 16th May, 2020 and 100% irrigated via overhead traveller

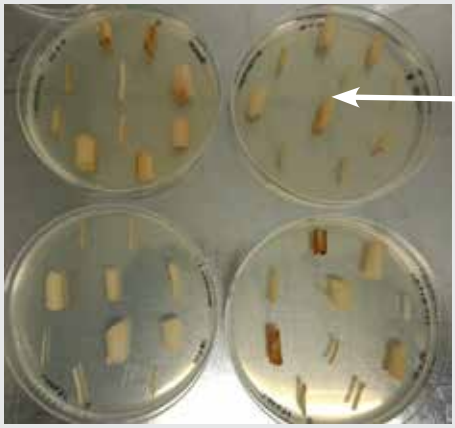
Product rates, application & frequency:

Standard: All block treatments have standard of Humic/Fulvic acid pre-plant spray, base fertilisers, post emergent top dress, a fungicidal and insecticide treatment and trace elements.

Positive Control - Bacillus Subtilis - 5L/ha

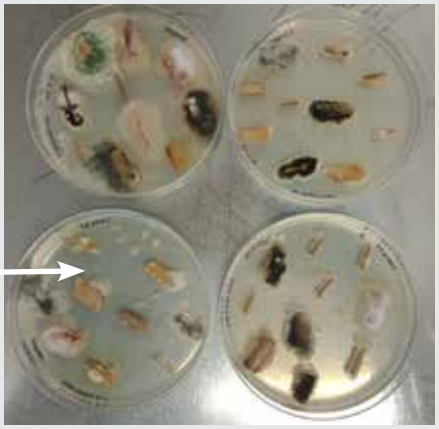
Trial of Vitazyme ST - 1:20 ratio, applying 700mls/tonne of Potato (equates to 2Lts/ha).

SabelX Hort as a Boom spray - 500g/ha mixed and sprayed with pre-emergent herbicide using 300L water/ha. Irrigated to 20cm depth within 24 hours.



Pre-incubation of Sabel-X Hort Endophytic Trichoderma

Post-incubation of Sabel-X Hort Endophytic Trichoderma showing Trichoderma established inside the plant



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Standard- more of small-medium size potatoes

Sabel-X Hort + Vitazyme ST - greater number of medium sized potatoes

Trial size & replication with Standard:

Trial is designed as a Complete Block with 2 replicates/treatment (total of 2.2ha/treatment).

Vitazyme ST - 2L/ha

Vitazyme ST - 2L/ha + Sabel-X Hort @ 500g/ha (boom sprayed 10 DAP)

Positive Control - Bacillus Subtilis - 5L/ha

Results

Yield increases above control

Vitazyme ST – 3.53% yield increase

Vitazyme ST + Sabel-X - 13.24% yield increase

Return on Investment above control based on $400/tonne base rate Chip Potatoes without considering quality parameters

Vitazyme ST - $564.40/ha return on $95/ha input (5.94 : 1)

Vitazyme ST + SabelX Hort - $2,118.00/ha return on $260/ha input (8.15 : 1)

Summary/Conclusions:

The combination of Sabel-X Hort and Vitazyme ST produced the best returns with a significant $2,118/ha with a $260/ha input.

This result is consistent with Sabel-X Trichoderma amplifying the effects of biological inputs.

Sabel-X Trichoderma act as a "coach of the microbes". Via signalling they activate the microbes in the soil rhizosphere.

When a root stimulant like Vitazyme ST is added, there are more beneficial microbes available so the Sabel-X Trichoderma can amass a better "A Team" of microbes to help the plant.

Sabel-X Hort + Vitazyme ST - cost effective combination for increasing returns

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