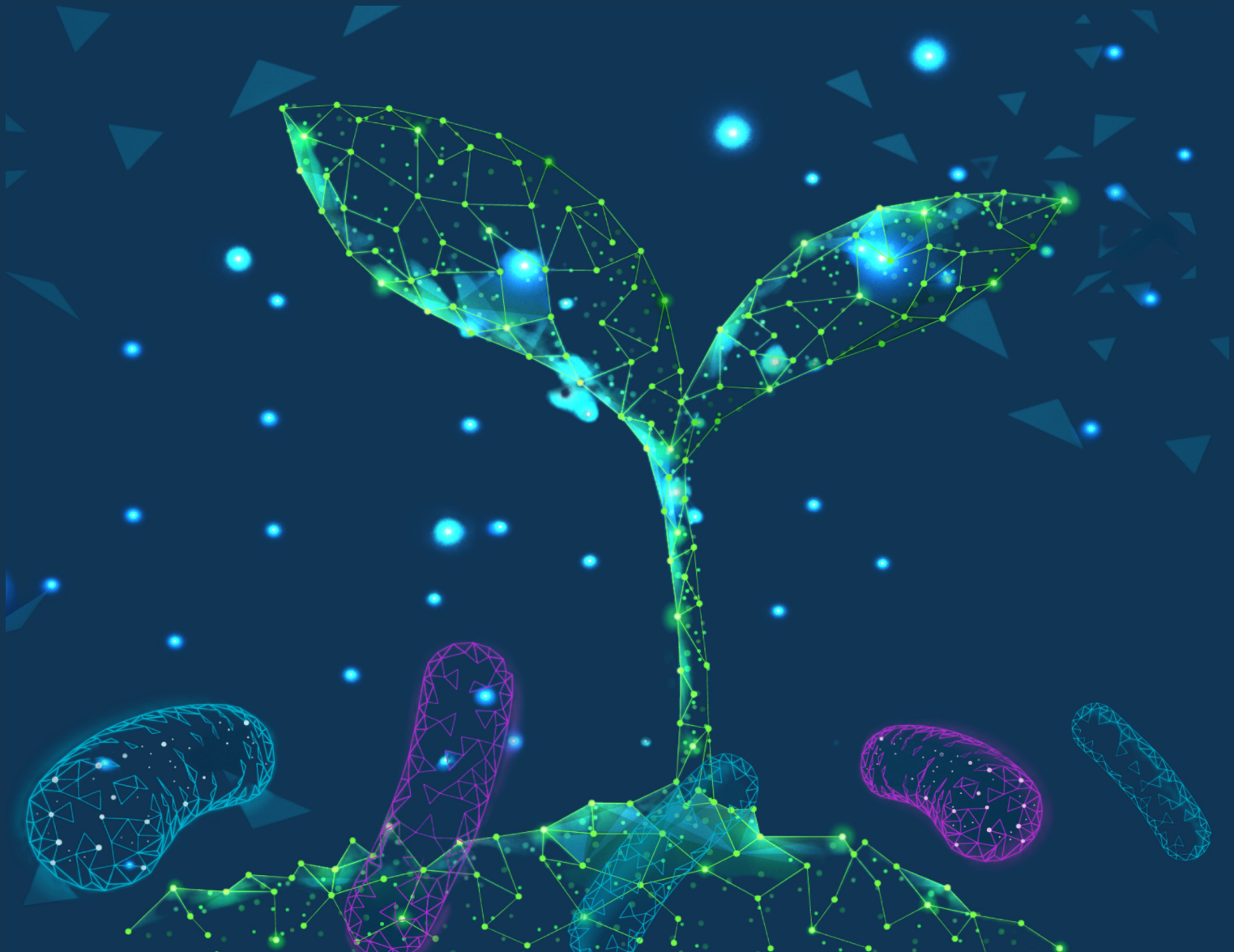




Bacstim[®]100

High Performance Biology

BACSTIM[®] works with the crops root system giving increased nutrient uptake.



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omnia
NUTRIOLOGY

WHY BACSTIM[®] 100?



Plants work closely with the microbes that live around their roots for a multitude of reasons. BACSTIM[®] is a way to introduce highly beneficial bacillus species into the root zone to:

- Produce phytohormones encouraging root growth
- Improve nutrient mineralization and uptake
- Improve stress resistance
- Increase crop biomass and yield

The microbes in BACSTIM[®] are spore formers, which means stable product in the drum and more resilient in the field. BACSTIM[®] is produced to Omnia's strict specifications to ensure consistent product quality and performance.

Contains 5 strains of *Bacillus spp.*

Total concentration of 2×10^9 CFU/ml (2 billion CFU/ml)

2 strains of *Bacillus licheniformis*

2 strains of *Brevibacillus laterosporus*

1 strain of *Bacillus amyloliquefaciens*

Application Rates

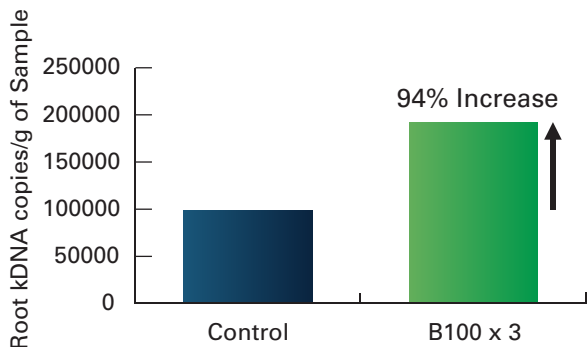
Crop	Dosage	Timing	Placement
Vegetables	2 x 1 L/ha	At planting One month later	In furrow close to seed or transplant roots Via fertigation system in shallow irrigation to target active root zone.
Tree crops	3 x 1 L/ha	At first root flush Mid spring Late spring	Via fertigation in shallow irrigation to target active root zone.
Vine crops	3 x 1 L/ha	Budburst 20cm shoot growth Flowering	Via fertigation in shallow irrigation to target active root zone.

Improved performance has been observed by combining
Bacstim[®] 100 with Rhizovator[™]

Apply 1 L/ha of Bacstim 100 tank-mixed with 10 L/ha Rhizovator per application.

ALMONDS

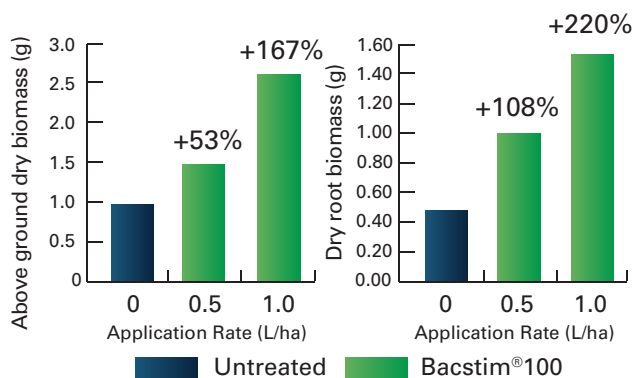
Improved Root Growth



A key aspect of plant production is a healthy, established root system. Bacstim 100 applied at 3 x 1L/ha on young almonds in Loxton, SA resulted in an increase in roots of 94% over the control.

MAIZE

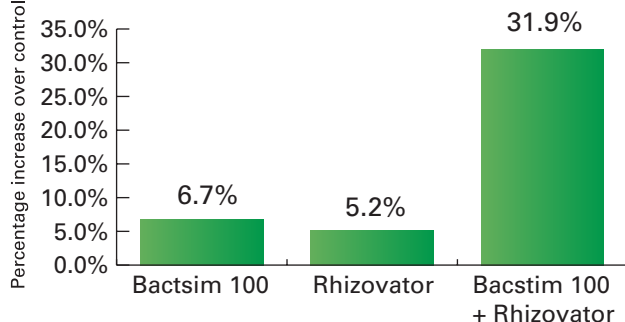
Improved above and below ground biomass



Bacstim 100 was applied at 0.5 L/ha and 1 L/ha in the furrow at planting. Bacstim 100 at 1 L/ha significantly increased above ground biomass by 167% and root biomass by 220%.

ONIONS

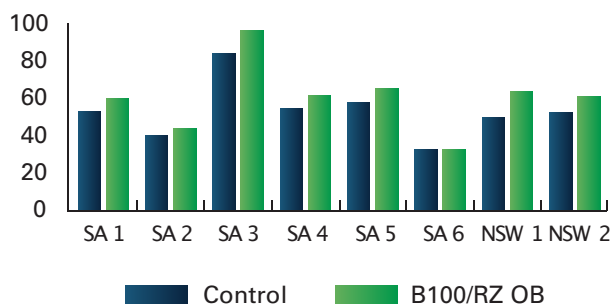
Yield Increase over Control, FSW 2020



Onion yields were increased through the application of Bacstim 100 and Rhizovator in the Western Free State in South Africa. Note that the individual products gave an increase, but the best result was achieved with the combination of Bacstim with Rhizovator, with a yield increase of over 30%.

POTATOES

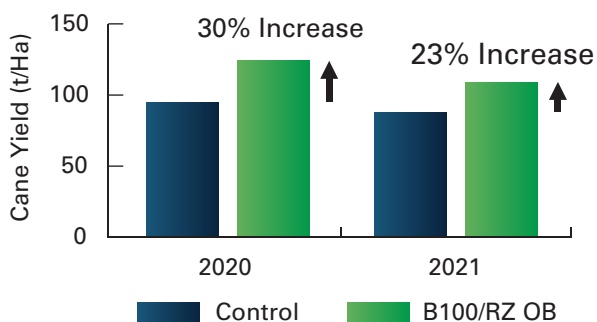
Consistent Yield Increase



Over 8 trial sites, Bacstim 100 at 1L/ha combined with Rhizovator OB at 10L/ha applied once in furrow at planting returned an average yield increase of 14.3%. A gross margin increase of R 37450/Ha, with a return on investment of over R 50/R1 spent.

SUGARCANE

Increased Yield



In a sugarcane trial held in Innisfail QLD over two seasons. Injecting Bacstim 100 at 1L/ha and Rhizovator at 20L/ha onto the fertilizer band at planting, and again at first ratoon, resulted in a gross margin increase by an average of over R 6800/ha per year.

RHIZOVATOR™

The Solution for Healthy Soil

Rhizovator™ is the ideal synergistic partner for BACSTIM® 100 as it has been formulated to feed the microbial life in the soil and encourage biological diversity. Rhizovator contains a mixture of high performance biostimulants, including humic acids, kelp, fulvic acids and amino acids. This leads to improved nutrient uptake and stress resistance, enhancing crop productivity.

Rhizovator™ products form an ideal partner to BACSTIM® 100, building the resilience of the biological system while introducing high performance microbial species.

Rhizovator™ PC

- Improves biological diversity
- Stimulates root systems
- Feeds beneficial microbes including fungi
- Is a natural chelating agent
- Is suited for permanent crops and soybeans

Rhizovator™ G1 & G2

- Enhances root growth
- Contains fully chelated trace elements
- Best suited for in furrow application
- Improved nutrient use efficiency

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