PostBoost™

Biological Solution
From Crop to Fruit

Our Partners

ICA INTERNATIONAL CHEMICALS (PTY) LTD

LUXEMBOURG

Agricultural Research Organization · Volcani Center ·

COPIA Ag & Food
Funding Sustainable Technologies

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General Overview

Depending on application method and timing, PostBoost can be used either as a post-harvest or a pre-harvest product. As a post-harvest product, it extends the shelf life of fruits and improves their color. It also improves sensory parameters and increases health parameters of fruits and fruit juices. As a pre-harvest product, it serves as a biological solution for crop protection against various pests and diseases (fungi, insects, bacteria and viruses).

Scientific Background

Like many other agricultural solutions, PostBoost has been developed in an academic research lab at the Agricultural Research Organization (ARO) – Volcani Center, Israel.
Over the past six years, Prof. Michal Oren-Shamir, Dr. Noam Alkan and Prof. Yigal Elad have been studying ways to biologically improve fruit protection, influence and enhance the taste and aroma of fruits, and extend their shelf life – ultimately making them more attractive to consumers.

Following successful results in labs and greenhouses, PostBoost has been further developed and examined by agricultural input suppliers from South Africa and Israel who conducted numerous field and greenhouse trials, testing the product as a pre-harvest as well as a post-harvest treatment.
The trials and studies clearly demonstrated that PostBoost can effectively protect crops against various pathogens such as *Tuta absoluta,* red spider mites, gray mold and powdery mildew. It also extends the shelf life of fruits and protects them from various pathogens, such as anthracnose, stem-end rot and *Alernaria alternata.*
In addition, it enhances the red color of mangos and apples, and provides protection against chilling injuring in mangos, oranges and lemons.

Other amazing benefits of PostBoost were discovered while analyzing the aroma and sweetness of the fruits. Improvement was shown in sensory parameters of fruits and fruit juices, especially in the aroma and taste of mangos, grapes and grape juice.

Today, PostBoost Ltd. is a portfolio company of COPIA Agriculture and Food Technologies L.P., an Israeli VC fund that invests in technologies which improve sustainability along the food supply chain and bridge the gap between academic research and the industry.

Benefits

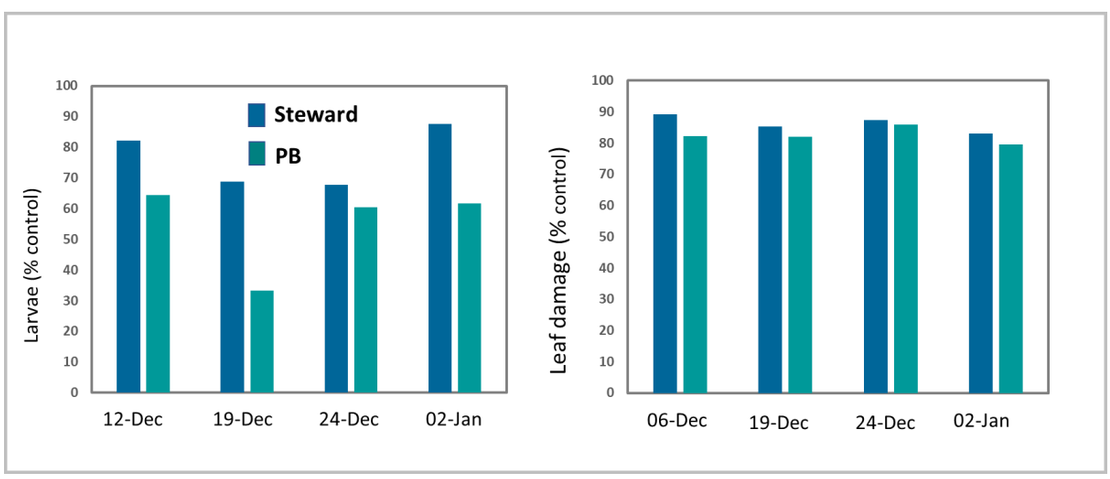
- ✓ Protects Crops Biologically
- ✓ Extends Fruit Shelf-Life
- ✓ Safer to Use
- ✓ Reduces Chilling Injuries
- ✓ Improves Flavor
- ✓ Improves Nutritional Values

Protecting Tomatoes from *Tuta Absoluta*

Protecting Tomatoes from *Tuta Absoluta* (Field Trials)

Field Trial #1 in South Africa

Location: A commercial tomato field grown in Bonnivale, Western Cape Province of South Africa, under drip irrigation.
Objective: To determine the efficacy of PB* on controlling the tomato leaf miner (*Tuta absoluta*) on tomatoes (*Solanum lycopersicum)*.
Trial design: Randomized Complete Block (RCB), six applications, seven days apart.
Control: Comparison with STEWARD (Indoxacarb).
Assessment: Was based on the severity of feeding damage caused by the larvae and by removing and determining larval mortality. The crop was monitored and marked during vegetative growth and only young leaves which received four applications were selected for evaluation.

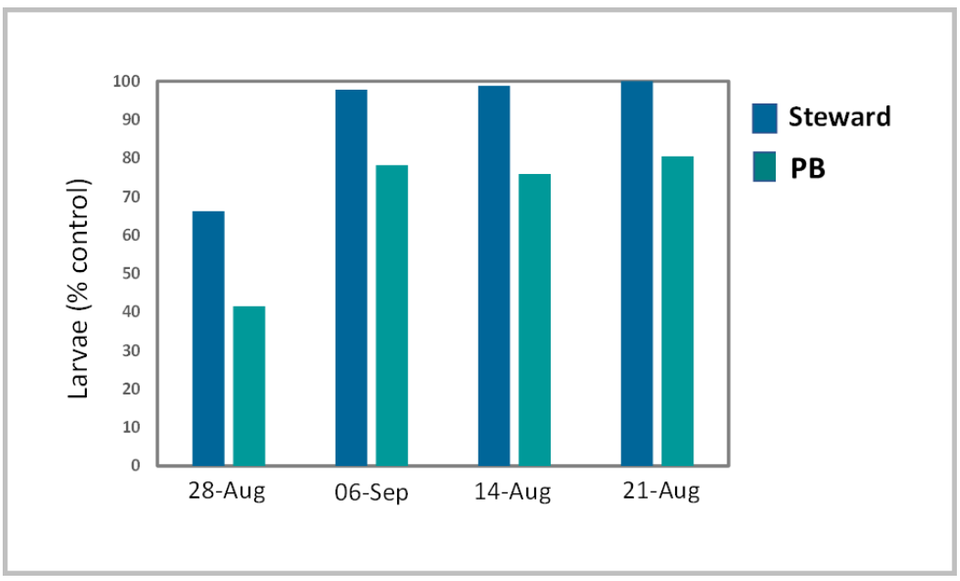


*** Note**: Code for PostBoost is "PB" in this document.

Field Trial #2 in South Africa

Location: A commercial tomato field grown under drip irrigation in Mooketsi a region of the Limpopo Province in South Africa.
Objective: To determine the efficacy of PB on controlling the tomato leaf miner (*Tuta absoluta*) on tomatoes (*Solanum lycopersicum)*.
Control: Comparison with STEWARD (Indoxacarb).
Trial design: A total of four consecutive foliar applications were done at eight - day spray intervals.
Assessment: During the first application, the leaf miners were counted on ten randomly selected plants per plot.

Efficacy assessment was conducted eight days after the first three applications (8 DA-A, 8 DA-B and 8 DA-C), and a final assessment on 7 DA-D. During each efficacy assessment, the leaf miners were counted on ten randomly selected plants per plot.



Field Trial #3 in South Africa

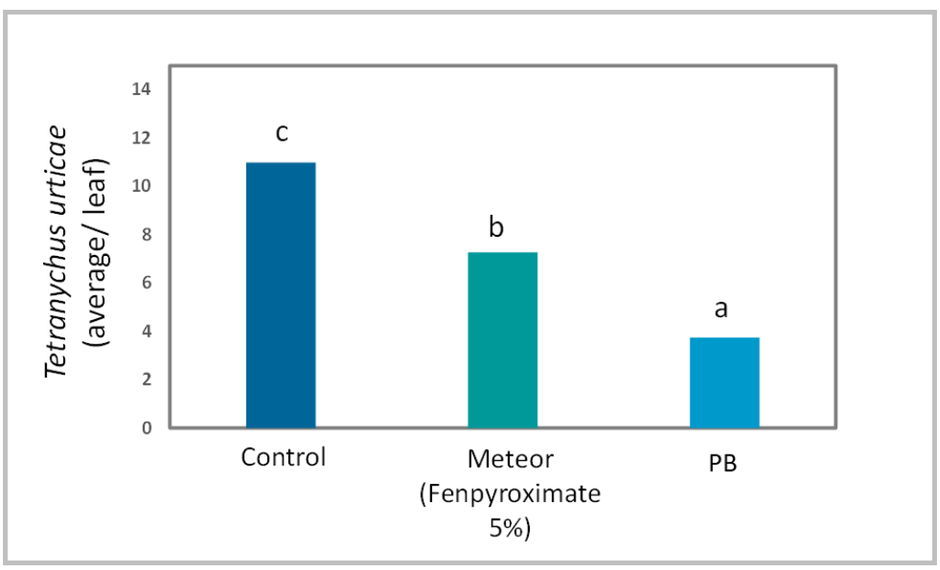
Location: A commercial tomato filed grown under drip irrigation in Kraaifontein, Western Cape Province of South Africa.

Objective: To determine the efficacy of PB on controlling the tomato leaf miner (*Tuta absoluta*) on tomatoes (*Solanum lycopersicum)*.

Trial design: Randomized Complete Block (RCB), four consecutive foliar applications were done at eight - day spray intervals.

Control: Comparison with Meteor (Fenpyroximate 5%).

Assessment: During the first application, the leaf miners were counted on ten randomly selected plants per plot.



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