



**Chitosan™**

# The Natural Elicitor

ANALYSIS: 4% CHITOSAN

## WHAT IS IT?

- CFIA-registered supplement: Reg. # 2017113A, Fertilizers Act.
- Chitosan is a compound naturally found in crustacean shells and fungal cell walls, and can be very beneficial to plant production and growth.
- Chitosan™ enhances plant survival and yield in times of heat or cold stress and drought.
- When foliar-applied to crops it allows the plants to grow with less water.
- Exogenous application of Chitosan™ has also been shown to accelerate growth and germination as well as improve the quality of flowers and fruit.
- Applied to produce, Chitosan™ helps prolong their shelf life and prevents early decays.
- Application of Chitosan™ can trigger plant defense responses and lead to a significant reduction in disease pressure.
- Timing of application is also crucial for insuring a beneficial effect.

## WHEN & WHY USE IT?

- The product is recommended on all crops including field, horticultural and vegetable crops as well as fruit trees, turf and ornamentals.
- Chitosan™ improves seed germination and seedling establishment.
- Apply Chitosan™ to improve the overall health and resilience of the crop to stressful conditions (cold, heat, drought, ...).
- Chitosan™ helps plants manage water use efficiency.
- As a biostimulant, Chitosan™ triggers plant's natural immunity against pathogens and can be used to complement fungicides effect.
- Applied post-harvest, Chitosan™ can prolong produce shelf life.

## WHAT TO EXPECT?

- An improved growth and development especially under cold, hot & drought stress conditions.
- Healthier crops often yield higher.
- Better seed and fruit quality.

## Application Guidelines

- Follow the recommended rates and timing listed on the label for each crop and do not exceed the recommendation.
- To prepare solution, add one half the total amount of water, add recommended volume of Chitosan™ and continue adding water until desired application volume is reached.
- For foliar applications, apply with minimum volume of 10 US gal/ac.

\*Chitosan™ is a trademark of EZ-Gro Inc.



Figure 1. Effect of addition of Chitosan™ on the germination of spurge seeds (Source: Pabón-Baquero et al. 2015).

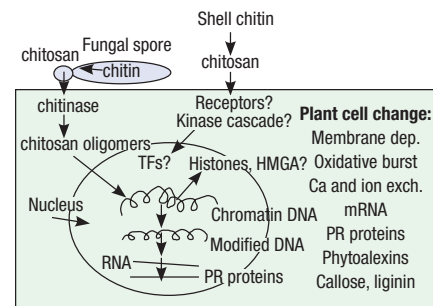


Figure 2. Versatility of use of Chitosan™ in many fields including the elicitation of plant innate defenses to pathogens.

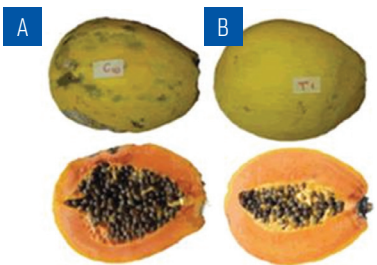
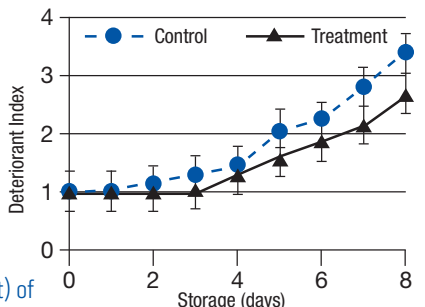


Figure 3. Deterioration index (Right) and decay (left) of papaya fruits. UTC (A) vs CHI Treated (B) after 8 days of storage (Source: Barrera et al. 2015).



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