

## Chitosan Gro

### BIOSTIMULATION

#### Introduction

**Chitosan Gro** is agriculture microbial solution containing synergistic microbe chelating with chitosan agents , for enhance plant nutrient uptake, efficiency, tolerance to abiotics stress (drought, salinity, heat, etc.) and crop quality.

**Chitosan Gro** can work in many different ways, including:

- facilitating nutrient uptake,
- enhancing the development of soil microorganisms,
- stimulating root growth to increase water use efficiency



#### Composition:

ACTIVE INGREDIENT: synergistic microbe and Chitosan, other ingredients,

Bacteria count  $2 \times 10^8$  CFU/g , powder type, 1,000 gram per pouch

#### Stimulate Method

- ✓ Synergistic microbe can enhance plant growth by direct and indirect ways. Direct plant growth promotion can be by a variety of means, including: 1) fixation of atmospheric nitrogen so it can be used by the plant, 2) solubilization of minerals, and 3) the synthesis of

phytohormones. Indirect plant enhancement is characterized by the ability of the PGPR to minimize the damaging effects of plant pathogens on plant growth.

- ✓ Chitosan is a natural plant elicitor because the exoskeletons of all insects are made of the same thing (chitin). When chitosan comes in contact with plants it “tricks” the plants into thinking they are being infested and the plant’s natural immune response is stimulated.
- ✓ For many types of plants, this stimulating or eliciting of your plant’s immune response can increase the concentration and production of sap, resin, essential oils, fruit, and your plant’s overall size. It can also increase your plant’s resilience when being transplanted. It can even help revive stress-shocked saplings.

## Benefit:

- ✓ Induce yield increases 10~20%
- ✓ Enhanced crop quality, including sugar content, color, fruit seeding, etc.
- ✓ Facilitating nutrient assimilation, translocation and use
- ✓ Improving the efficiency of the plant’s metabolism
- ✓ Make antibody for disease and insect resistance
- ✓ Increasing plant tolerance to and recovery from abiotic stresses
- ✓ Reduces transpiration of plant by inducing closure of plant stomata.
- ✓ Stimulation of growth and activity of beneficial microbes

## Foliar application :

- Apply 600 gram per acre, 1: 300 dilution,
- Repeat applications at 10 day intervals for season-long stimulate
- Foliar spray when early stages of the leaf period

## Caution

This product is suitable for all kinds of crops. According to the local soil fertility and expected yield, apply chemical fertilizer, bacterial fertilizer and organic fertilizer as appropriate.

## Packing and shelf life

2 year shelf life, 50 gram per pouch, per bag.

Powder type

## Storage

Store in cool and dry, keep out of direct sunshine and moisture. Keep out of reach of children.