

# Natreg

CROP	APPLICATIONS	DOSAGE
Tomatoes	At 15-20 cm growth - Prior to bloom - At fruit set - 14 days later	3-3.5 l/ha
Cucumbers	At 4 true leaf stage after sowing - At first pre-bloom - 7-14 days later - Every 7-14 days until harvest - Within 48 hours after each picking (harvest)	2.5-3.5 l/ha
Eggplants, Melons, Peppers, Squashes, Pumpkins	At 15-20 cm growth - Prior to bloom - At fruit set - Within 48 hours after each picking (harvest)	3-3.5 l/ha
Lettuce, Spinach	At 4 leaf stage - Regular applications every 14 days	1.8-2.5 l/ha
Broccoli, Cabbage, Cauliflower	At 4-6 true leaf stage - 10-14 days later - At head initiation	2.5-3 l/ha
Celery	Within 7 days after transplanting or 2-3 weeks after emergence - 10-14 days later - 10-14 days later	2.5-3 l/ha
Carrot, Garlic, Onion, Radish	2-3 weeks after emergence - At root enlargement	2.5-3 l/ha
Potatoes, Sweet Potatoes	At tuber formation or 3-5 weeks after emergence - 10-14 days later - At the beginning of blooming	2.5-3 l/ha
Strawberries	10-14 days after emergence - At first bloom - Every 2-3 weeks during harvest	1.8-2.5 l/ha
Apples, Pears, Cherries	At green tip (tight cluster) - Prior to bloom (pink buds) - Mid bloom - At 3/4 petal fall - At young fruit - Every 14 days until harvest	3-3.5 l/ha
Apricots, Nectarines, Peaches, Plums	Prior to bloom - 2-3 weeks after petal fall - 30 days after the last application - 30 days after the last application	3-3.5 l/ha
Grapes	At the beginning of spring growth - At 45-60 cm cane growth - At 50% of bloom - At berry set (early shattering) - 2-3 weeks later	2.5-3 l/ha
Oranges, Tangerines, Lemons, Grapefruits	Pre / early bloom - At full bloom / 3-4 petal fall - With summer spray - With fall spray - 6-8 weeks prior to harvest for fresh market varieties	3.5-4 l/ha
Nut trees	2 weeks prior to bloom - 2 weeks following petal fall - 30 days after the last application - 30 days after the last application	2.5-3 l/ha
Corn	At 15-20 cm growth - At 25-35 cm growth - Just prior to tasseling	2.5-3 l/ha
Cotton	At the beginning of bloom - 7-10 days later	2.5-3 l/ha
Alfalfa	At early spring - 8-10 days after each cutting or intense pasturing	2.5-3 l/ha
Sugarbeets	At 2-6 leaf stage - 7-10 days later - 7-10 days later	2.5-3 l/ha
Rice	At 3-5 leaf stage - At panicle initiation	2.5-3 l/ha 1.2-1.8 l/ha
Wheat	At 10-20 cm growth - At bloom	2.5-3 l/ha
Soyabean	At the appearance of buds - At full bloom - 1-2 additional applications at 2-3 weeks intervals during the growing season	2.5-3 l/ha



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## Crop Biostimulant

Natreg is approved for use in more than 80 crops including:

- Tree crops
- Horticulture
- Vegetable
- Field crops
- Cotton
- Fodders
- Ornamental crops
- Others

### Natreg is a Natural Biostimulant which offers Quality Yield and Profitable Production

Natreg is both scientifically and field proven to improve the qualitative characteristics of the production and to increase the profits of the farmer.

#### SYNTHESIS OF NATREG

Cytokinins are the active ingredients of Natreg. Cytokinins are natural plant growth substances (phytohormones) that promote cell division and differentiation. The presence of cytokinins is essential in all the growth stages of plants.

Natreg is a natural product containing cytokinins that have derived from marine plant extracts. It contains chelated nutrients, carbohydrates, amino acids and vitamins. All the ingredients of Natreg are essential for plant nutrition, photosynthesis and respiration.

Natreg contains natural polysaccharides such as Alginic acid and Mannitole that bind all of the essential nutrients making them more bioavailable and assimilable to the plants.

#### Improved Root Growth

- Natreg promotes the formation of primary and lateral roots. Branching of the roots facilitates water and nutrient uptake by the plants.
- Creates a voluminous root system that supports healthy and highly productive plants.

#### Fortified Resistance against Stress

- Stimulates the production of proteins which enhance plant defence.
- Promotes the formation of phytoalexins which assist in the control of fungal diseases.
- Enhances the production of peroxidases, compounds that fortify the resistance of plants against diseases and pests.
- Fortifies the resistance and the ability of plants to recover from stress caused by environmental and abiotic factors.

#### Improved foliar nutrition

- Natreg contains chelated nutrients which improve the uptake of nutrients by the plants through their foliage. Also the efficiency of other inputs is improved.
- The synthesis of proteins and enzymes is enhanced and as a result photosynthesis and respiration are improved. Enhanced photosynthesis creates greener and healthier leaves.

#### Natreg acts at a cellular level

- Increases the permeability of the cellular membranes.
- Stimulates the formation of proteins that protect the cells and consequently improve fruit set.
- Promotes the synthesis of polyamines which enhance the resistance of plants during periods of stress by stabilizing the cell membranes.
- Increases the osmotic potential and balance inside the cells and thereby the uptake and retention of water by the plants is improved.
- Promotes the synthesis of protective compounds and as a result cellular membranes are better protected against stress.
- Regulates the ratio between auxins and cytokinins that controls the differentiation of cells, the cellular division and elongation.
- Enhances the antioxidant activity of proteins and as a consequence plants are more healthy and vigorous.

#### Benefits of Natreg

- Increases seed germination.
- Enhances the growth of the roots.
- Improves the formation of the root system.
- Increases fruit set.
- Fortifies the resistance of plants against various stress factors.
- Improves the qualitative characteristics of the crop.
- Increases the marketable yield of the crops.
- Elongates the shelf life of the fruits.
- Increases the farmer's profit.

#### Improved Quality of Plants

- Stimulates the production of sugars, proteins and organic acids which are necessary for the healthy and vigorous growth of plants.
- Fortifies the integrity of cell membranes, the formation of proteins and chlorophyll inside the plants and consequently it delays senescence.

#### Increased fruit set

- Promotes photosynthesis which enhances sugars production. This results in the early formation of fruits and also in the fruit set.

#### Improved marketable yields

- Marketable yields are increased since Natreg improves the qualitative characteristics of the harvest, enhances crop production and increases the size of the fruits.
- Natreg elongates fruit shelf life.
- As a result, the farmer's income is increased.

#### Applications of Natreg

- **Foliar:** Natreg is usually applied foliarly and is combined with the standard management inputs of the crop. As soon as Natreg is applied on the leaves of the plant, it activates compounds within the leaf which enhance the defence of the plants. As a result, the yield is increased and also the quality of the harvest is improved.
- **Fertigation:** Natreg can also be applied through fertigation. Natreg stimulates the soil microbial activity which satisfies the plant requirements and also fortifies the productivity of soils.
- **Dipping of Seeds or Cuttings:** Another application is to dip the seeds and the cuttings in a solution of Natreg. For seed dipping, you dip the seeds prior to their planting, while for cutting dipping, you can apply Natreg in two ways, the first is through dipping prior to their transplanting and the second is through fertigation after their transplanting.
- **Dipping of Roots:** Natreg can be applied by root dipping in order to enhance the resistance of plants against stress caused by dehydration and to promote the quick establishment of the roots and of the plant in the soil.

