

CYTO-GEM ORGANO

OMRI™
Listed

ALL NATURAL NUTRIENTS FOR PERMANENT AND ROW CROPS

FEATURES AND BENEFITS

CYTO-GEM is a natural plant growth regulator made by alkaline hydrolysis of the seaweed *Ascophyllum Nodosum*. The main growth regulators contained in **CYTO-GEM** are the auxins, hormones, indoles and cytokinins. Cytokinins are cell division factors that encourage rapid cell division. The auxins and indole compounds are naturally occurring plant growth promoters for root development and bud initiation. **CYTO-GEM** also contains Alginic acid which is comprised of Vitamins A, B1, B12, C, D, E, K, Riboflavin, Niacin, Choline, Carotene, and Pantothenic.



THE CYTO-GEM ADVANTAGE

The active ingredient in **CYTO-GEM** is a family of plant growth hormones called Cytokinins which impact various essential cellular processes such as cell differentiation and division. Cytokinins are naturally synthesized in the tips of plant roots and are essential at all stages of plant development from root and bud formation to stem and leaf development. As an all natural product, **CYTO-GEM** also contains primary and secondary micronutrients, carbohydrates, amino acids and vitamins, important to plant nutrition. In addition, it contains an abundance of naturally chelating polysaccharides such as alginic acid which can form complexes with cations such as Cu, Fe, Mn, Mg and Ca. Likewise, mannitol, a sugar alcohol present in abundant quantities, exhibits similar chelating action. The end result of a higher concentration of chelated minerals is greater bioavailability of the nutrients to treated crops. Natural cytokinin products also appear to produce the ability within plant to repel insects and fungal diseases and have a toxic effect on attacking pests.



PROVEN BENEFITS

Improved Quality Yields

- Caused by stimulated photosynthesis resulting in more efficient sugar production.
- A result of increased production, sizing and quality.
- Result from delayed crop degradation after harvest.
- Increased profitability.

Healthy Leaves

- Enhances protein synthesis and plant enzymes for optimum photosynthesis production and respiration.
- Promotes leaf health by enhancing stress resistance.



- Promotes a health leaf canopy, which supports healthy root

development.

Strong Plant Structure

- Maximizes plant uptake and utilization of crop management inputs.
- Facilitates production of necessary sugars, proteins, and organic acids creating building blocks for healthy growth and development.
- Helps stabilize cell membranes, proteins and chlorophyll in plants delaying aging or senescence.
- Enhances plants ability to manufacture defensive proteins.
- Stimulates production of phytoalexin, compounds known to combat fungal infections.
- Improves ability to recover from environmental stress.
- Helps generate peroxidase compounds, known to help fortify against pests and diseases.



Healthy Root Development

- Promotes lateral root development.
- Enhances root growth, creating a well developed root system which supports a healthy leaf canopy.

EASY APPLICATION

CYTO-GEM is designed to supplement a sound crop management program. The timing and rates of application are critical to its effectiveness and will vary



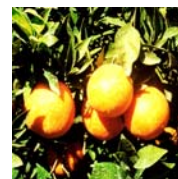
for specific crops, as well as climatic and soil conditions. May be applied as a foliar application, fertigation or furrow

run applications, and seed and transplant treatments. **CYTO-GEM** is compatible with most fertilizers, fungicides and pesticides. In all cases, it is recommended that a jar test be made to determine the compatibility of **CYTO-GEM** with other materials before proceeding with high volume mixing.

Rates: Apply 3 gallons of **CYTO-GEM** per acre per growing season. FOLIAR USE: Apply the first application when there is sufficient foliage to absorb

CYTO-GEM, the 2nd at bloom.

VEGETABLES: Apply 3 sprays 1-14 days apart. In each spray use 1 to 1 1/2 gallon per acre. Total **CYTO-GEM** to be used per acre, per crop: 3 to 4 1/2 gallons. **FIELD CROPS:** Use 3 gallons per acre. **TREE FRUIT:** Use 2 quarts per acre. Apply a total of 6 sprays. **CITRUS:** 1 1/2 gallons per acre in the Fall. 1 1/2 gallons per acre in the winter. 3/4 gallons per acre in late spring and early summer. **VINES:** 2-3 applications after fruit set. **TURF:** Every 30 days apply 1 oz. per 1000 sq. ft. as a foliar or 2 oz. per 1000 sq. ft. mixed with a wetting agent.



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