

CYTOGEM 2 - 1 - 1

TURF FORMULA

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 Pantothen.

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 a 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

Healthy Root Development

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

Healthy Turf

- 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

- 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.

EASY APPLICATION

CYTO-GEM is designed to supplement a sound turf management program. The timing and rates of application are critical to its effectiveness and will vary for specific turf varieties, as well as climactic 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. Product is safe and nontoxic when used as directed. Keep out of reach of children and pets! Do not inhale or ingest. Avoid contact with skin, eyes, or clothing. In case of contact, flush with water. If swallowed, drink water and consult a physician.

Rates: Apply every 30 days for optimize benefits. Use 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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