



**Stoller Enterprises, Inc.**

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## **STIMULATE Yield Enhancer™**

### **ACTIVE INGREDIENTS:**

Cytokinin (as kinetin) 0.009%

Gibberellic acid 0.005%

Indole-3-butyric acid 0.005%

EPA Reg. No. 57538-13      EPA Est. Nos. 57538-FL-6, 57538-TX-1, 57538-TX-2

### **General Information:**

Stimulate Yield Enhancer is a biostimulant containing plant growth regulators. Stimulate enhances plant growth and development by stimulating cell division, cell differentiation and enlargement, nutrient uptake and nutrient utilization.

It is especially effective when applied with foliar fertilizer, but it is also compatible with pesticides.

### **Mode of Activity:**

A plant is composed of millions of individual cells. These cells are coded and develop into different plants parts. Their production, sizing, and functions are all hormonally controlled.

Auxins and cytokinin are necessary for cell division. These two hormones control the number of cells that the plant produces.

Gibberellic acid is responsible for cell sizing. It controls the size and shape of all cells in the plant.

In addition to cell division cytokinin controls both the amount and residence time of all the other hormones that accumulate in the plant cells. In other words, as levels of cytokinin increase cell division can occur more rapidly and over a longer period of time.

As cytokinin levels increase cell sizing can occur over longer period of time.

As cytokinin levels increase the levels of stress ethylene are suppressed and the presence of ABA is delayed, therefore, plant cell live for a longer period of time.



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### Uses:

1. To increase flower development and number of female flowers when sprayed directly onto buds prior to flower development.
2. To increase the number of shoots and crop growth on any plants that sprout buds from a crown. This family of plants includes asparagus, alfalfa, clover, grasses, and strawberries.
3. To increase root growth when applied through drip or micro-jet irrigation.
4. To increase germination and seedling vigor of all plants when used as a seed treatment:

When the seed is placed in moist soil, the gibberellic acid is necessary in order to begin the process of amylase which degrades the starch that is in the seed.

After the gibberellic acid stimulates the germination of the seed, auxin and cytokinin are necessary for cell division in both the roots and the hypocotyls of the plant. This will give a more rapid germination to the plant and also make healthier young plants.

Stimulate increases germination, seedling vigour and resistance to pathogens and adverse conditions.

Stimulate is specially formulated for use on any seed as well as seed pieces e.g. potatoes

5. To increase transplanting vigor when used during the period of transplanting ...either as a plant dip or transplant water.

Stimulate is a very versatile product. It has been proven to be consistently effective in many different crops. Do not leave establishment to chance – use Stimulate.