



ECOVIGOR Technical Sheet

ECOVIGOR is a liquid bacteria formula that stimulates plant growth, homogeneity in plant development, vigor and productivity.

ECOVIGOR is a blend of selected strains of *Bacillus licheniformis* (ECO63, ECO61) and *Bacillus sp.* ECO68 , ECO69).

The microbes in ECOVIGOR grow in association with the roots and foliage of plants.

The strains of ECOVIGOR:

- Produce essential nutrients for the plant including phyto-hormones and vitamins that stimulate plant growth and yield.
- Free nutrients in the soil that are not available to plants.

Unique product

The strains in ECOVIGOR are naturally occurring, and they have not been genetically modified. The strains are grown individually under a proprietary technology that guarantees no contamination. The spores are blended in balanced proportions and are stabilized with organic polymers resulting in a shelf life of 18 months with no need of refrigeration. We guarantee a minimum spore concentration of 5×10^{11} spores per liter.

Plants that benefit from ECOVIGOR

Flowers, vegetables, fruits, grains, trees, palm trees, grasses and turf.

Application

ECOVIGOR can be applied to the soil with any type of irrigation systems. ECOVIGOR can be applied to the foliage with any devise used for this type of application.

For better results ECOVIGOR should be applied mixed with ECONUTRIENT. ECONUTRIENT is a dry feed that stimulates the growth of the strains of ECOVIGOR and induce them to produce the active metabolites that stimulate plant growth. ECONUTRIENT dissolves readily in water and should be added at a rate of 2 lbs per gallon of ECOVIGOR (250 grams of ECONUTRIENT per liter of ECOVIGOR).

Nursery

- Soil preparation. Add 0.5 to 1 ounce of ECOVIGOR diluted in water per cubic yard of soil (20 to 40 cc per cubic meter of soil). Add 0.15 to 0.3 ounces of ECONUTRIENT diluted in water per cubic yard of soil prior to planting (5 to 10 grams per cubic meter)

- Seeds. Immerse the seeds in a solution prepared with 0.32 to 0.64 ounces of ECOVIGOR per gallon of water prior to planting (2.5 to 5 ml per liter).
- Add weekly 0.64 to 1.28 ounces of ECOVIGOR and 0.05 to 0.1 ounces of ECONUTRIENT per cubic yard (5 to 10 ml ECOVIGOR and 1.25 to 2.5 grams ECONUTRIENT per cubic meter).
- Repeat applications every week to every other week.

Field crops

- Transplant: Immerse trays with plants before planting to soak the roots in a 1% (v/v) solution of ECOVIGOR in water.
- Vegetable and fruit crops. ECOVIGOR should be applied at moments when the plant has the strongest nutrient requirements, such as at planting time, before flowering and during fruit formation. Periodic applications during the growth cycle (monthly) have proven most effective. Apply ECOVIGOR at a dose of 7 to 14 ounces per acre per application (0.5 to 1 liter per hectare per application).
- Flowers. We recommend weekly foliar or edaphic applications of 2.8 ounces of ECOVIGOR and 0.37 to 0.74 ounces per 100 square yards (50 to 100 ml per 100 square meters of ECOVIGOR and 12 to 25 gr ECONUTRIENT per 100 square meters).

Hydroponics

- We recommend foliar or root system weekly or by-weekly applications at a dose rate of 0.01 to 0.05% (V/V).

Recommendations

- Flush irrigation systems and sprayers with plenty of water from any pesticide residue before applying ECOVIGOR.
- Avoid applying pesticides one week before and one week after applying ECOVIGOR.
- Avoid use bactericides such as copper.
- Apply the product early in the morning or at the end of the afternoon.

Precautions

- Do not drink the product. If ingested, drink plenty of water.
- Use protective gloves and goggles.
- Avoid contact with eyes and open wounds.
- In case of skin contact wash with water and soap.
- In case of spill dilute with water and discard through sewer or over soil.
- Keep bottle capped tightly with the lid.
- Store the product in the shade, at temperatures below 35°C.