



www.biodyne-midwest.com

USING THE POWER OF MICROBES –PLANT BIOSTIMULATION



Who is Biodyne?

Biodyne® is an innovative business intent on harnessing naturally occurring microbes for environmental applications. *Biodyne*® has been in business since 1989. *Biodyne Midwest*, cultivates and distributes liquid ENVIRONOC® inoculant to customers around the USA. www.biodyne-midwest.com

What does Biodyne Do?

Biodyne isolates and evaluates bacteria/fungi for desirable environmental capabilities.



These microbes are screened for their capabilities and promising strains are assembled into products. The microbes in our product blends are comprised of naturally occurring bacteria/fungi that have been selected for their special abilities.

Can Microbes Stimulate Plant Growth?



The growing roots of plants have an intimate relationship with the soil around them. As they push through the soil, they endure significant abrasion to their protective layers leaving a trail of organic debris in their immediate vicinity (rhizosphere). Ubiquitous indigenous microorganisms are able to utilize this debris as food and energy to populate the area. While many of these indigenous strains may be harmless, some can be undesirable neighbors for the roots. Inoculated microbes can bring new talents to the rhizosphere with significant advantages to the plants.

Benefits of ENVIRONOC® 401

By populating the rhizosphere with known beneficial and capable microorganisms, potential adverse populations may be reduced while at the same time providing the many skills of these added microbes to fulfill the special needs of the plant roots and allow them to flourish.

CAPABILITITES AND BENEFITS:

- Plant growth enhancement
- 100% naturally isolated microorganisms
- Safe, non-toxic, and “green”
- Better roots, stronger stems
- Reduced fertilizer requirement
- Healthier lawn / turf
- Fast flower & fruit
- Better Crop Yield

ENVIRONOC 401 is an Organic and Versatile Liquid Product for Commercial and Residential applications, such as:

- Agriculture Operations / Farms for increased health and yield of crops and reduced nitrogen inputs
- Floral industry, for faster blooms, larger blooms, and stronger stems of many flowering plants
- Home and commercial lawn application for general health, strong root system, and reduced fertilizer needs
- Golf course greens, fairways, and landscape amendment for healthy root system and reduced fertilizer
- Commercial turf industry



Web: www.biodyne-midwest.com

Email: info@biodyne-midwest.com

Toll Free: 888-970-0955

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Each Year Since 2005, 2 to 3 Crops of approximately 500 plants treated with ENVIRONOC 401 are evaluated...



Above, 401-treated tomato seedlings show increased leaf mass and height.



Above, Sweet Corn varieties have shown increased mass, height, and fruit production

**Biodyne** *Midwest*
Environmental Biotechnology

Spray Inoculation with ENVIRONOC 401 has been used in a variety of commercial vegetable production.....



In repeated studies, Celery has shown increased leaf and stalk mass with Environoc 401.



The bloom size in many varieties of flowers is greater with 401 inoculation. Even the disc flowers are more robust in some varieties of inoculated gerberas



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