



Pathway[®]
BioLogic

PATHWAY BIOLOGIC, LLC - MICROBIAL TECHNOLOGY

GOLF

LAWNCARE

SPORTS FIELDS

FLOWERS AND
BEDDING PLANTS

ORNAMENTALS

PowerPac™ is a consortium of polymicrobial strain PGPRs (Plant Growth Promoting Rhizobacteria) that can be mixed with a wide range of fertility and plant protection products. These tank mixes can be sprayed foliar, applied as a drench, or deployed through various forms of irrigation. The polymicrobial strains have been selected for their ability to build strong relationships with turf and ornamental plants, providing a healthier environment more conducive for plant growth. Plant growth is enhanced due to the more active nature of the soil microbiome. The plant microbe relationships also provide greater opportunity for growth and increased vigor.

PRODUCT BENEFITS

Increased

- Root Growth and Development
- Nutrient Uptake and Utilization
- Photosynthesis
- Vigor and Uniformity
- Organic Matter Management

Improved

- Soil Structure
- Tolerance to Biotic and Abiotic Interactions
- Flowering
- CEC

PowerPac™ is tank-mix compatible with most fertilizer and pesticide solutions but a bench test is recommended.

Available in 3 pound pac, 36 pound case.

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SOLUTION MICROBIOLOGY

Pathway utilizes the latest advancements in microbial technology and pure culture science to formulate multi-strain microbial groups that enhance and balance beneficial microbial populations in the rhizosphere. Diverse and strain specific, these microbes are formulated with market leading concentration, and are characterized as having exceptional performance and viability. Inoculating on a regular schedule provides a more productive soil that maximizes the benefits of your nutrient and control inputs.

PLANT GROWTH PROMOTING RHIZOBACTERIA

PowerPac[™] is formulated with diverse **polymicrobial strains** and metabolites each contributing differently in the rhizosphere.

Bacillus subtilis: Enzyme production facilitates nutrient solubilization, uptake, and utilization in the plant. Breaks down and converts organic matter into plant usable forms. Produces metabolites that promote plant growth and increased photosynthesis.

Bacillus methylotrophicus: Siderophore production naturally chelates iron improving uptake and utilization. Converts atmospheric nitrogen into plant usable forms. Biofilm formation holds nutrients in the soil profile.

Bacillus amyloliquefasciens: Initiates root growth and development.

Bacillus laterosporus: Produces enzymes known to promote and allow root proliferation in the presence of adverse conditions.

Bacillus lichenformis: Unbinds and disassociates salts from soil particles freeing up exchange sites for other cations. Enzyme production increases phosphorus solubilization and availability.

APPLICATION RATES:

Greens & Tees – 16 oz per acre biweekly, or 8 oz per acre weekly

Fairways – 4 oz per acre monthly

Lawn – 4 to 8 oz per acre every 4 to 8 weeks

Sports Turf – 8 oz per acre monthly

Flowers & Bedding Plants – 8 oz per 50 gallons water, apply 2 to 3 gallons finished product per 1000 sq. ft.

Transplants – 8 oz per 50 gallons water, apply as a drench

For further specifications, refer to Rates & Frequency table on product label or contact your Product Representative.

Microbial Inoculant for soil and plant enhancement ...