



Microbial inoculant for soil and plant enhancement

PowerPac™ is a microbial inoculant containing bioactives of PGPR – Plant Growth Promoting Rhizobacteria – that improves nutrient utilization and optimizes conditions for root growth and plant vigor. It is a dry soluble that can be tank-mixed with pesticides and nutrient solutions.

Benefits of Using PowerPac™:

- Improves nutrient use efficiency – solubilization, uptake and utilization of applied fertilizer and nutrients in the soil bank
- Optimizes conditions for greater root mass and plant vigor
- Improves organic matter management
- Ease of application – no special storage conditions and flexibility with application

How PowerPac™ Works:

1. PowerPac applied with fertilizer to turfgrass or ornamental plants.
2. The bioactives in PowerPac – *Bacillus spp.* – produce enzymes and organic acids that improve the solubilization of fertilizer into plant available forms and release bound nutrients.
3. More availability of nutrients can increase nutrient uptake, providing greater root volume and improving overall plant growth and vigor.





Product Profile

Mode of Action	<ul style="list-style-type: none"> Nutrient solubilization and cycling improving nutrient availability – macronutrients and micronutrients.
Compatibility	<ul style="list-style-type: none"> Tank-mix compatible with nutrient solutions and pesticides. Contact a Pathway representative for a complete list of compatible products.
Active Ingredients – Proprietary PGPR strains	<ul style="list-style-type: none"> Bacillus subtilis (1 x 10⁸ cfu/g) Bacillus methylotrophicus (1 x 10⁸ cfu/g) Bacillus licheniformis (1 x 10⁸ cfu/g) Bacillus amyloliquefaciens (1 x 10⁸ cfu/g) Bacillus laterosporus (1 x 10⁸ cfu/g)
Formulation	<ul style="list-style-type: none"> Soluble powder
Packaging	<ul style="list-style-type: none"> 12 x 3 lb bag, 36 lb case
Shelf life	<ul style="list-style-type: none"> 18 months from date of manufacture

Application

Greens	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 in 50 gallons water, apply as a drench

TECHNICAL INFORMATION