



Microbial inoculant for organic crop production

OVERVIEW

Manage™ is a microbial inoculant containing bioactives of PGPR – Plant Growth Promoting Rhizobacteria – that optimizes nutrient utilization and promotes root and crop growth, helping growers maximize ROI from production inputs. It is a dry soluble approved for organic production and can be tank-mixed and applied in-furrow, thru drip or injected.

FEATURES & BENEFITS

### Benefits of Using Manage™ in Crop Production:

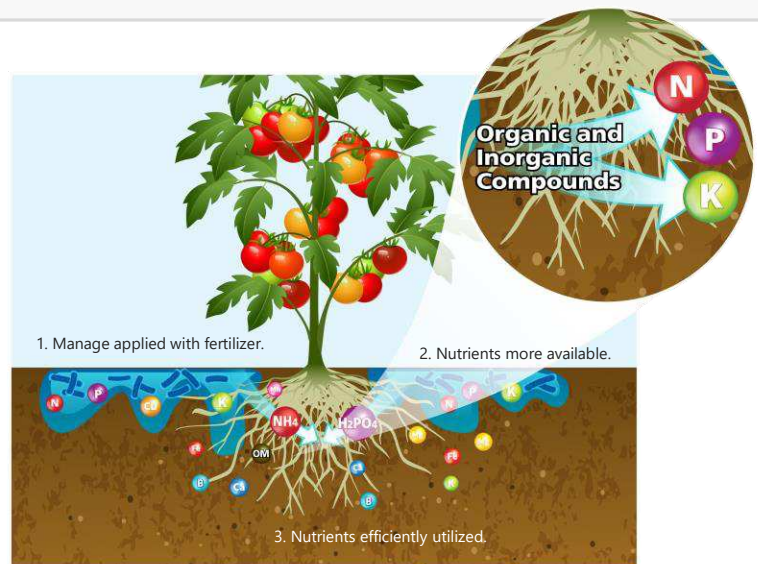
- Improved nutrient use efficiency – solubilization, uptake and utilization of applied fertilizer and nutrients in the soil bank
- Enhanced root growth and plant vigor
- Optimized yield potential and improved harvest quality
- Ease of application – no special storage conditions and flexibility with application
- Approved for organic crop production



TECHNOLOGY AT WORK

### How Manage Technology Works:

1. Manage applied with fertilizer at key growth stages.
2. The bioactives in Manage – *Bacillus spp.* – produce enzymes and organic acids that improve the solubilization of fertilizer into plant available forms, and release bound nutrients.
3. These bioactives also promote a more robust root system, improving nutrient and water uptake which optimizes crop growth and yield potential.





## Product Profile

Mode of Action	<ul style="list-style-type: none"> <li>Nutrient solubilization and cycling improving nutrient availability – macronutrients and micronutrients.</li> <li>Root growth promotion – improved production of root hairs and root tips for increased water and nutrient uptake.</li> </ul>
Compatibility	<ul style="list-style-type: none"> <li>Effective with a wide range of raw nutrients, blends, organic solutions and pesticides. Contact a Pathway representative for a complete list of compatible products.</li> </ul>
Active Ingredients – Proprietary PGPR strains	<ul style="list-style-type: none"> <li>Bacillus subtilis (1 x 10<sup>7</sup> cfu/g)</li> <li>Bacillus methylotrophicus (1 x 10<sup>7</sup> cfu/g)</li> <li>Bacillus licheniformis (1 x 10<sup>7</sup> cfu/g)</li> <li>Bacillus amyloliquefaciens (1 x 10<sup>7</sup> cfu/g)</li> </ul>
Formulation	<ul style="list-style-type: none"> <li>Soluble powder</li> </ul>
Packaging	<ul style="list-style-type: none"> <li>4 x 10 lb bag, 40 lb case</li> </ul>
Shelf life	<ul style="list-style-type: none"> <li>18 months from date of manufacture</li> </ul>

## Application

Pre-plant or At-plant	10 to 20 oz/acre
In-furrow or Banded	4 to 8 oz/acre
Cuttings & Bare Root	10 to 20 oz in 50 gallons water for dipping
Greenhouse & Nursery	8 to 10 oz per 20,000 sq. ft. through drip or spray
Transplants	8 oz in 50 gallons water, apply as a drench