BioPath® 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 formulated to be blended with liquid fertilizer or tank-mixed and applied in-furrow, sidedress or broadcast.

Benefits of Using BioPath® 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
- Ease of application – no special storage conditions and flexibility with application
- Optimized yield potential and improved harvest quality

How BioPath Technology Works:

1. BioPath applied with fertilizer at key growth stages.
2. The bioactives in BioPath – Bacillus subtilis, Bacillus methylotrophicus and Bacillus licheniformis – 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 uptake which optimizes plant growth and harvest quality.
Product Profile

Mode of Action
- Nutrient solubilization and cycling improving nutrient availability – macronutrients and micronutrients.
- Root growth promotion – improved production of root hairs and root tips for increased water and nutrient uptake.

Fertilizer Compatibility
- Effective with a wide range of raw nutrients, blends and organic solutions. Contact a Pathway representative for a complete list of compatible fertilizers.

Active Ingredients – Proprietary PGPR strains
- Bacillus subtilis (2 x 10⁸ cfu/mL)
- Bacillus methylotrophicus (2 x 10⁸ cfu/mL)
- Bacillus licheniformis (1 x 10⁸ cfu/mL)

Formulation
- Water based

Packaging
- 2 x 2.5 gal case, 275 gal tote

Shelf life
- 24 months from date of manufacture

Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Rate</th>
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<tbody>
<tr>
<td>Starter / At plant</td>
<td>16 to 32 oz/acre</td>
</tr>
<tr>
<td>Sidedress or Topdress</td>
<td>16 to 32 oz/acre</td>
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<tr>
<td>Broadcast or Manure</td>
<td>64 oz/acre</td>
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<tr>
<td>Cuttings &amp; Bare Root</td>
<td>32 to 64 oz in 50 gallons water for dipping</td>
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<tr>
<td>Greenhouse &amp; Nursery</td>
<td>24 to 32 oz per 20,000 sq. ft. through drip or spray</td>
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<tr>
<td>Transplants</td>
<td>24 to 32 oz in 50 gallons water, apply as a drench</td>
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