



Next Generation biological for phosphorus use efficiency

OVERVIEW

BiOHP™ is a microbial inoculant containing bioactives of PGPR – Plant Growth Promoting Rhizobacteria – that increases the availability of phosphorus and uptake of other key nutrients, both from applied fertilizer and in the soil. It is formulated to be blended with liquid fertilizer or tank-mixed and applied in-furrow, sidedress or topdress.

FEATURES & BENEFITS

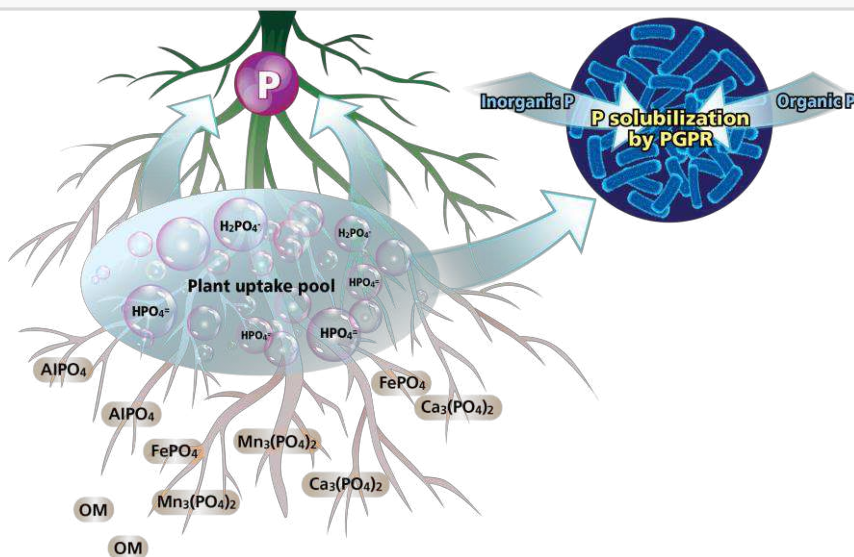
Benefits of Using BiOHP™ in Crop Production:

- Increased bio-available Phosphorus level in the soil and improved nutrient uptake from fertilizers and the soil bank
- Enhanced plant growth and vigor via production of growth promoting metabolites
- Ease of application – tank-mix compatible with crop protectants and nutrient solutions
- Improved ROI from fertilizer inputs
- Optimized yield potential and improved harvest quality

TECHNOLOGY AT WORK

How BiOHP™ Technology Works:

1. The bioactives in BiOHP produce organic acids and enzymes that transform insoluble P to soluble forms that are plant accessible from both organic and inorganic sources.
2. Both bioactives in BiOHP – *Bacillus tequilensis* and *Bacillus velezensis* – also produce growth metabolites that provide a more robust root system, improving nutrient and water uptake.
3. This combined with enhanced nutrient use can improve photosynthetic capacity, optimizing crop growth and yield potential.





Product Profile

Mode of Action	<ul style="list-style-type: none"> Phosphorus solubilization and availability of other key nutrients. Plant growth promotion – improved root and shoot growth for increased water and nutrient uptake.
Fertilizer Compatibility	<ul style="list-style-type: none"> Effective with a wide range of fertility solutions to include UAN, starter fertilizers and blends. Contact a Pathway representative for a complete list of compatible fertilizers.
Active Ingredients – Proprietary PGPR strains	<ul style="list-style-type: none"> <i>Bacillus tequilensis</i> (5×10^7 cfu/mL) <i>Bacillus velezensis</i> (5×10^7 cfu/mL)
Formulation	<ul style="list-style-type: none"> Water based
Packaging	<ul style="list-style-type: none"> 2 x 2.5 gal case, 275 gal tote
Shelf life	<ul style="list-style-type: none"> 24 months from date of manufacture

Stand Alone Application

Starter	16 to 32 oz/acre
Sidedress or Topdress	16 to 32 oz/acre

Ingredient Solution

UAN @ 20 GPA	0.5% by volume
UAN @ 10 GPA	1% by volume
Starter @ 5 GPA	2% by volume
Starter @ 3 GPA	3.5% by volume