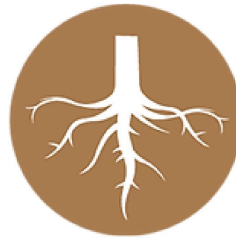


BioMantra Root



BioMantra Root can be used when planting fields, shrubs, trees, gardens, and turf to give roots plenty of Arbuscular Mycorrhizal Fungi (AMF) that help create a deeper and more fibrous root system and much more!

BioMantra Unlocks Nutrients



BioMantra Root

[Add to Cart](#)



BioMantra Commercial

[Add to Cart](#)

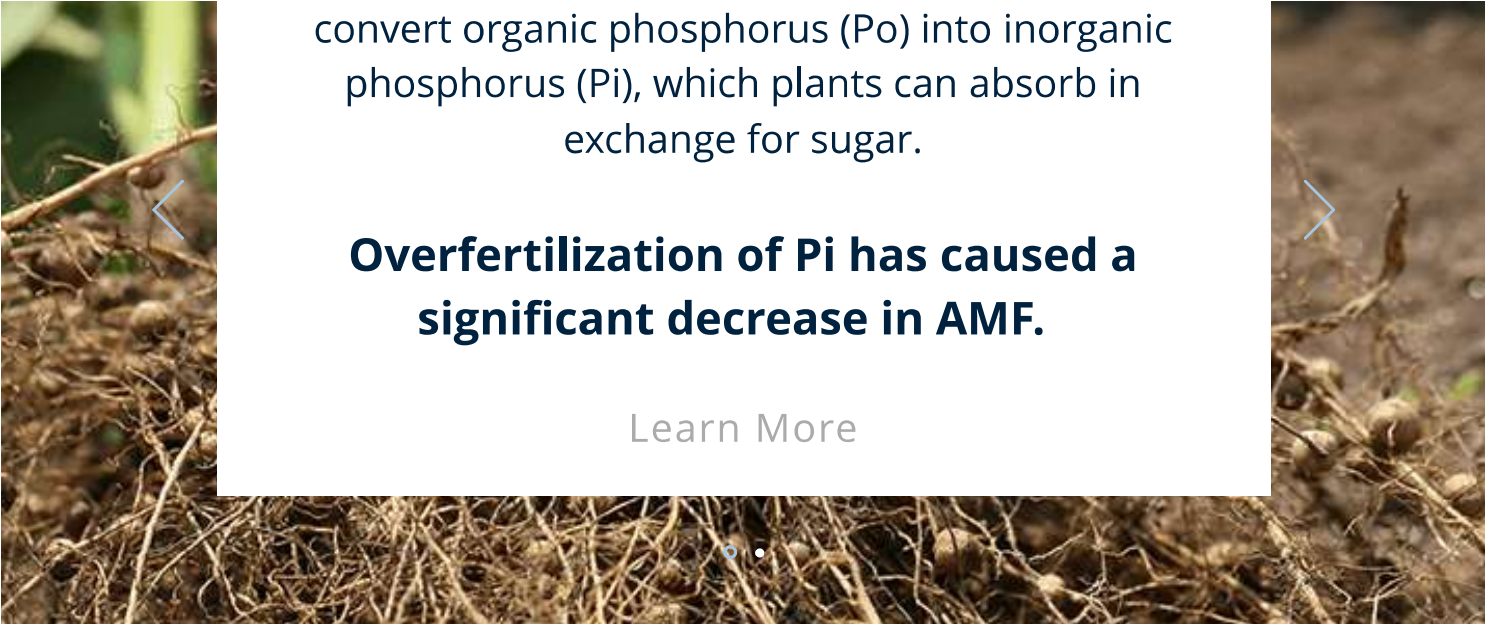


Instant Compost Tea

[Add to Cart](#)

AMF, is the Oldest Symbiosis Known to Science!





convert organic phosphorus (Po) into inorganic phosphorus (Pi), which plants can absorb in exchange for sugar.

Overfertilization of Pi has caused a significant decrease in AMF.

[Learn More](#)

Sports Turf, Lawns, & Golf Course

Resilience

Healthier greens will regenerate faster after damage and rough use from divots and traffic. **BioMantra is NOT a fertilizer, and it will NOT burn lawns.**

BioMantra Commercial is ideal for 10 acres or more, with elements from both **BioMantra Root** and **Soil** for the most resilient and beautiful greens and fairways.

Call Our Experts!

920-251-5916

[Organic Farming](#) • [FAQ](#) • [Commercial Crops](#)

Golf Course & Turf

BioMantra is safe for animals, environment-friendly, and helps your turf look its best. Increase soil moisture, nutrient uptake, and drought resistance by restoring the soil's natural microbes.

BioMantra Root

promotes healthy, fibrous, and expansive roots.

Strong, healthy roots are essential for porous soil, which helps retain water and carbon dioxide for plant use.

Benefits

- Less Fertilizer Needed
- Less Run-off
- Faster Grow-back
- Reduce Maintenance Costs
- Less Watering Needed
- Stronger Disease Resistance

Fungi

Glomus mosseae in **BioMantra root** is a unique type of **arbuscular mycorrhizae fungi (AMF)** that penetrate the cortical cells of a vascular plant's roots and **deliver essential mineral elements.**

These soil microorganisms result in a healthier, beefier plant.

Humic Acid

Humic acid in **BioMantra soil and root increases organic carbon, soil porosity and increases the Cation Exchange Capacity (CEC) of soil.**

Humic acid also makes nutrients more bio-available by chelating.

This means that the soil absorbs more water and locks in nutrients in ionic form.

Bacteria

BioMantra Root, Seed, and Soil contain different concentrations and ratios of several key types of bacteria.

Nitrogen-fixing bacteria are capable of transforming atmospheric nitrogen into fixed nitrogen. **More than 90% of all nitrogen fixation is affected by these types of bacteria.**

Backed by Science

BioMantra root composition:

Paenibacillus azotofixans

Bacillus megaterium

Bacillus subtilis

Glomus mosseae

Humic acids

(Potassium Humate)

Seaweed extract

(sargassum weightii)

Glomus mosseae

"First and foremost among the benefits of AM fungi is the uptake of phosphorus. Literally, every species of AM fungi known provide this crucial service to plants. Phosphorus and sugar are the currency of this symbiosis. AM fungi are so specialized they can only feed on sugars obtained through their arbuscules."...

Humic acids (Potassium Humate)

"improve soil aggregate structure, reduce soil compaction, and achieve good conditions;

Ascorbic Acid

(non-GMO origin)

Thiamine

(Vitamin B1)

Dextrose

(microbial food)

Paenibacillus azotofixans

"Over half of synthetic nitrogen fertilizer is not taken up by crops and is instead lost to the environment. Inoculating fields or crops with Paenibacillus azotofixans, that fixes nitrogen in or around plant roots, where it is actually needed, lessens such nitrogen pollution and is more economical."

Bacillus megaterium

"Bacillus megaterium inoculation stimulated growth and development. In particular, inoculated plants developed a robust root system with proliferating lateral roots."

Bacillus subtilis

"B. subtilis exhibit a synergistic effect on plant growth when they are applied in combination with AM fungi. The combined application results in greater promotion of plant growth, increased production of enzymes, antioxidants, P solubilization, biocontrol activity, root nodulation, and nitrogen fixation."

fertilizer retention capacity to adsorb and exchange plant nutrients, improve fertilizer slowness, increase soil fertility and water retention capacity; provide soil beneficial microbial activities."

Seaweed extract (Sargassum weightii)

"wightii extract promoted the shoot length, root length, fresh weight, dry weight, chlorophyll, carotenoid, protein, amino acid, reducing sugar, total sugar, α -amylase, and β -amylase activities in *Abelmoschus esculentus*."

Ascorbic Acid (non-GMO origin)

"L-Ascorbic acid (vitamin C) is as essential to plants as it is to animals. Ascorbic acid functions as a major redox buffer and as a cofactor for enzymes involved in regulating photosynthesis, hormone biosynthesis, and regenerating other antioxidants."

Thiamine (Vitamin B1)

"Application of thiamine primes plants against biotic stress via up-regulation of PR genes and salicylic acid (SA). Thiamine also positively influences against abiotic stress via abscisic acid (ABA). Inhibition of riboswitch function (red line) leads to TDP imbalance."

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