The ROOTS® brand of biologically enhanced nutrients merge nature and technology to offer leading-edge solutions for turf and plant care. ROOTS products provide an all-in-one nutrient delivery system that feeds the plant while enhancing the biological life of the soil and plant ecosystem.

### Chelated micronutrient products

**FE-8® Iron Chelate**
- Green-up without rapid growth
- Long lasting green-up

1 fl. oz./1,000 sq. ft. every 2 weeks or 2 fl. oz./1,000 sq. ft. every 4 weeks.
- **Fairways:** 1.5 qt./acre every 2 weeks;
- **Sports Turf:** 1 fl. oz./1,000 sq. ft. every 2 weeks.
- **Sod Installation:** 3 fl. oz./1,000 sq. ft. at installation;
- **Trees and Shrubs Deep Root Feeding:** 1 gal./100 gal. water. Apply in spring or fall.

**P2O5** . . . . . . . . . . . . . . . . . . .5.0%
**K2O** . . . . . . . . . . . . . . . . . . .8.0%
**Fe** . . . . . . . . . . . . . . . . . . . .8.0%

### Biostimulant products (Vitamins)

**AGRIplex® micro mix Chelated Liquid Micro-Nutrients**
- Quick visual response without rapid growth
- Longest lasting green-up
- Highly concentrated with low application rate

- **Greens & Tees:** 1 fl. oz./1,000 sq. ft. every 2 weeks or 2 fl. oz./1,000 sq. ft. every 4 weeks.
- **Fairways:** 1.5 qt./acre every 2 weeks or 3 qt./acre every 4 weeks.
- **Trees and Shrubs-Transplant Maintenance- Soil Application:** 4 fl. oz./100 gal. in spring, summer, fall.

**P2O5** . . . . . . . . . . . . . . . . . . .3.00%
**K2O** . . . . . . . . . . . . . . . . . . .5.00%
**Mg** . . . . . . . . . . . . . . . . . . . .1.80%
**S** . . . . . . . . . . . . . . . . . . . . .3.00%
**B** . . . . . . . . . . . . . . . . . . . . .0.02%
**Fe** . . . . . . . . . . . . . . . . . . . . .5.00%
**Mn** . . . . . . . . . . . . . . . . . . . .1.20%
**Zn** . . . . . . . . . . . . . . . . . . . .0.50%

**ROO TS® Concentrate Rooting Stimulant**
- Promotes rapid root growth
- Quicker regeneration for seedlings, cuttings and transplants
- Helps assure successful transplantings

- **Ornamental Plants for Flower Beds:** 1 fl. oz. in 3 qt./200 sq. ft. (1:100) every 4 - 6 weeks.
- **Nursery/Greenhouses:** 1 fl. oz. in 3 qts. (1:100) every 4 - 6 weeks.
- **Planting/Transplants:** 1 fl. oz. in 3 qts. (1:100) 2 oz./inch of trunk diameter at planting.

**N** . . . . . . . . . . . . . . . . . . . . .1.0%
**P2O5** . . . . . . . . . . . . . . . . . . .2.0%
**K2O** . . . . . . . . . . . . . . . . . . .3.0%
**Fe** . . . . . . . . . . . . . . . . . . . . .2.7%
**Mn** . . . . . . . . . . . . . . . . . . . .0.3%
**Zn** . . . . . . . . . . . . . . . . . . . .0.2%
**Vitamin C** . . . . . . . . . . . . .3.00%
**Myo-Inositol** . . . . . . . . . . . .0.50%

**Combination Products - Mycorrhizal Fungi and Beneficial Bacteria**

**1>2>3™ Premix Plus Microbially Enhanced Plant Nutrition**
- Deeper roots
- Greater root mass development
- Greener color without rapid growth
- Improved turf health

- **Greens & Tees:** 12 fl. oz./1,000 sq. ft. first application. 6 fl. oz./1,000 sq. ft. every 2 weeks (or 12 fl. oz. every 4 weeks).

**N** . . . . . . . . . . . . . . . . . . . . .3.0%
**P2O5** . . . . . . . . . . . . . . . . . . .2.0%
**K2O** . . . . . . . . . . . . . . . . . . .20.0%
**Mg** . . . . . . . . . . . . . . . . . . . .1.5%
**S** . . . . . . . . . . . . . . . . . . . . .4.0%
**B** . . . . . . . . . . . . . . . . . . . . .0.02%
**Fe** . . . . . . . . . . . . . . . . . . . . .7.0%
**Mn** . . . . . . . . . . . . . . . . . . . .0.2%

**ROOTS® BioPak Plus 3-0-20**
- Promotes quick recovery from stress
- Reverses minimal deficiencies that cause chlorosis & necrosis
- Improves root function without stimulating excessive top growth
- Use Spring, summer and fall

- **Tree/Shrub care:** Mix 1 to 5-lb per 50 gallons to treat 1250 sq. ft. Inject the entire area beneath the canopy every 2.5 feet with a volume of 1-qt per injection.
**endoROOTS® Granular Mycorrhizal Rooting Stimulant**

- Speeds up grow-in and establishment
- Increases turf density
- Faster recovery from ball marks, divots, and wear
- Significantly improves rate of recovery from aeration

**New Seeding:** Apply to soil surface before sod installation or seeding.

**Soil Prep:** Use 10 lbs./1,000 sq. ft.

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**M-ROOTS® Granular**

- Increases transplant survival
- Increases water and nutrient absorption
- Increases tolerance to a wide variety of environmental extremes
- Effective on trees, shrubs, and flowers

**Flower Beds:** 5 lbs./100 sq. ft. mixed into top 4”.

**Potting/Seeding Mix:** 10 lbs./cu. yd. - 2 cups/cu. ft.

**Bulbs:** Add 1 Tbsp to each hole.

**Sod/New Seed:** Apply 10 lbs./1,000 sq. ft. as part of soil prep.

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**ROOTS® Healthy Start 3-4-3**

- Use for seeding, garden and flower beds, bulbs trees and shrubs
- Restores natural fertility to disturbed soils
- Slowly releases nutrients as it biodegrades
- Adds rich organic matter
- Will not burn plants or roots

**Seed/Sod Installation:** 25 Lb bag per 2,500 sq. ft.

**Soil Prep for gardens and Flower beds:** 25 lbs./1,000 sq. ft.

**Bulbs:** Add 1 Tbsp to each hole.

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**ROOTS® Tree Saver**

- Helps reduce transplant shock and loss rates
- Helps plants mitigate adverse environment stresses
- Improved absorption of water and minerals from the soil

**Tree/Shrub care:** Mix into the backfill when transplanting trees and shrubs.

Follow application rates based on the diameter of the planting hole.

Contains Ectomycorrhizae and Endomycorrhizae

Beneficial bacterial

Humic Acids

**ROOTS® Fertilizer for Trees**

- Tree and Shrub maintenance
- Chemically-based elements address trees’ immediate nutritional needs
- Beneficial microbes sustain fertility over the long-term
- Inject or drench use

Available in a variety of analysis.