

DIEHARD™ Palm Transplant



“The Industry's First Complete Palm Transplant Inoculant”

DIEHARD™ Palm Transplant is formulated as a preparation to inoculate the roots of palm trees with live beneficial mycorrhizal fungi when planting to promote new feeder root and mycorrhizal development on newly planted palms. It contains highly selected endomycorrhizal fungi that will quickly colonize the roots of palms to provide the best possible conditions for the roots to grow and extract from the root zone water and nutrients. The mycorrhizal fungi are combined with humic acids, biostimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, fulvic acid, nitrogen, phosphorous, potassium, and chelated magnesium, manganese, iron and zinc, to promote rapid root development. DIEHARD™ Palm Transplant is packaged in 8 oz. bags that will treat a 10 - 12 foot palm.

Directions For Use

Incorporate evenly with backfill along the sides of the planting pit adjacent to root ball in the upper 10-12 inches of the planting hole according to the diameter of the root ball:

- 2 ft. or less1 bag
- 3 ft.....2 bags
- 4 ft.....3 bags
- 6 ft.....8 bags
- 8 ft.....12 bags

Product Benefits

<p>IMPROVES Survivability Overall Plant Health New Root Growth Flowering Water Absorption Nutrient Availability Yields and Production</p>	<p>REDUCES Mortality Fertilizer Cost Pesticides Usage Heat Stress Damage Irrigation Frequency Losses From Drought Conditions</p>
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GUARANTEED NUTRIENT ANALYSIS

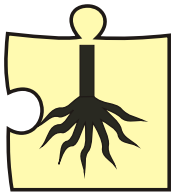
4-2-4

Total Nitrogen (N)	4%
0.9% Urea Nitrogen	
1.4% Water Soluble Nitrogen	
1.7% Water Insoluble Nitrogen	
Available Phosphate (P205)	2%
Soluble Potash (K20).....	4%
Total Magnesium (Mg)	2%
2% Water Soluble Magnesium (Mg)	
Total Manganese (Mn).....	3%
3.0% Water Soluble Manganese (Mn)	
Total Zinc (Zn)	1%
1% Soluble Zinc (Zn)	

Derived from KELP (*Ascophyllum Nodosum*), Manganese Sulfate, Zinc Sulfate, Iron Sulfate, Manganese Sulfate, Superphosphate, Urea, and Potassium Sulfate.

Also contains NONPLANT FOOD INGREDIENTS

<i>Endomycorrhizal Fungi</i>	7 propagules per gram Funneliformis mosseae, Rhizophagus intraradices, Rhizophagus fasciculatus, Glomus dussii, Rhizophagus clarus, Septoglomus deserticola, Glomus microaggregatum.
<i>Bacillus, Pseudomonas & Streptomyces Species</i>	22,269,868 CFU's per gram Genus Bacillus: <i>B. megaterium, B. subtilis, B. amyloliquefaciens, B. azotoformans, B. licheniformis, B. pumilus, B. firmus, B. coagulans, Geobacillus stearothermophilus, and Paenibacillus polymyxa, Paenibacillus Durum. Genus Pseudomonas:</i> <i>P. putida, P. fluorescences, P. Aureofaciens. Genus Streptomyces:</i> <i>S. lydicus, S. griseus, S. coelicolor.</i>
<i>Trichoderma</i>	15,991 CFU's per gram Genus Trichoderma: <i>Trichoderma hamatum, Trichoderma harzianum, Trichoderma reesei.</i>
Sea Kelp Extract	2% <i>Ascophyllum nodosum</i>
Yucca Plant Extract	1% <i>Yucca schidigera</i>
Humic Acids	3% Derived from <i>Leonardite</i>
Horta-Sorb® MD Water Gel	Minimum 27%
Particle Size	0.8 mm to 2.0 mm
Percent Soluble	less than 0.05%
Absorption Rate	300-400 times in distilled water
OTHER INGREDIENTS	
Root Promoting Vitamin	B, B2, B3, B5, B6, B7, B9, B12, C, K, Biotin
Amino Acids	<i>L-Alanine, L-Argine, L-Aspartic Acid, L-Cystine, L-Glutamic Acid, L-Glycine, L-Histidine, L-Isoleucine, L-Leucine, L-Lysine, L-Methionine, L-Phenylalanine, L-Proline, L-Threonine, L-Serine, L-Tryptophan, L-Tyrosine, L-Valine.</i>
Additional Microbials	Purines, Pyrimidines, Fulvic Acid



Endomycorrhizal Palm Tree Inoculant

DIEHARD™ Palm Transplant



“Stimulates root growth naturally”

Compatibility

Species: All palms

Fungicides: Non-systemic fungicides normally have no effect. Foliar applied fungicides normally have no effect. Systemic fungicides may be applied 2 weeks before or after use of product. Fungicide use according to label instructions do not extinguish mycorrhizal, they only inhibit development for a short period of time.

Storage & Handling

Store in a cool, dry place. Avoid high temperatures and direct sunlight. Product shelf life is up to 24 months.

Health & Safety

Inhalation	If dusty conditions exist, wear a dust mask.
Ingestion	Drink large amounts of water, induce vomiting, and seek medical attention.
Eyes Safety	Flush with large amounts of water. Product becomes very slippery when wet.

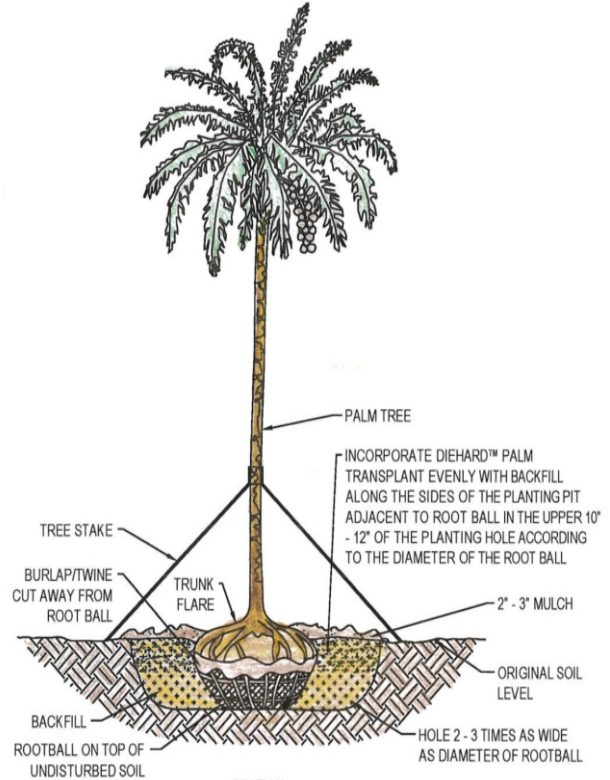
DIEHARD™ Inoculants

DIEHARD™ Transplant

Contains live spores of endo and ectomycorrhizal fungus combined with humic acids, stimulants, nitrogen fixing, phosphorus solubilizing and growth promoting beneficial bacteria, soluble sea kelp, natural surfactant from yucca plant extracts, and Horta-Sorb® MD. This is a complete transplant preparation to inoculate landscape trees and shrubs with live beneficial Mycorrhizal fungi, "energize" the soil, and provide natural nutrients to trees and shrubs when planting.

DIEHARD™ Palm

A maintenance product specifically for palms containing Endomycorrhizae, beneficial bacteria, plus all the "goodies" for palms. Formulated by some of the top palm experts in the country. Can be used to treat newly PLANTED palms.



Limited Warranty: All information contained herein is offered in good faith. There are no warranties of merchantability of fitness for a particular purpose which extend beyond the information contained herein. Our liability is limited to replacement of any product which does not meet these specifications.

Distributed by:

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