



Guaranteed Analysis:

Guaranteed Analysis – Soil Amending Ingredients

Microbial Content.....	0.5%
<i>Bacillus amyloliquefaciens</i>	1.1 x 10 ⁷ cfu/g
Endo-mycorrhizal fungi.....	2.6 cfu/g
(Glomus aggregatum, G. etunicatum, G. clarum, G. deserticola, G. intraradices, G. monosporus, G. mosseae, Gigaspora margarita, and Paraglomus brasilianum)	
Ecto-mycorrhizal fungi.....	2.6 x 10 ³ cfu/g
(Laccaria laccata, Pisolithus tinctorius, Rhizopogon amyloporogon, R. fulvigleba, R. rubescens, R. villosuli, Scleroderma cepa, and S. citrinum)	
Total Other Ingredients:.....	99.5%

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Indole-3-Butyric Acid (IBA).....	2.50%
Cytokinin (as kinetin).....	0.40%
Vitamin B1.....	0.25%
Vitamin B6.....	0.25%

Product Description:

RootXcell is a vitamin hormone product not subject to FIFRA regulation pursuant to 40 C.F.R. § 152.6(f). The product is a suspendable powder containing a combination of IBA, endo & ecto-mycorrhizae, cytokinin, and vitamins B1 & B6 which promotes root growth and development in most species of trees and shrubs. Use of RootXcell encourages and improves overall nutrient and water uptake, thereby enhancing vigor and growth as well as tolerance to environmental stress.

DPH Biologicals

21417 County Road 1950 East
Princeton, Illinois 61356 USA
Phone: (800) 648-7626
www.dphbio.com

Net Weight: 5 lb. (2.25 kg)

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapco.org/metals.html>

P-3-LBL-RXCF5-001

FIRST AID

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. **Skin Contact:** Wash off immediately with soap and plenty of water for at least 15 minutes. **Inhalation:** Remove to fresh air. **Ingestion:** Clean mouth with water and drink afterwards plenty of water.

Storage & Disposal:

Storage: RootXcell™ should be stored in its original container, away from heat and direct sunlight. Preferably store in cool areas out of direct sunlight, away from children and pets, feed, and food products. Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

Disposal: Do not reuse this container. Dispose of contents/container in accordance with local/regional/national regulations.

Expiration Date: product guaranteed effective up to 2 years after date stamped on container.

Condition of Sale and Warranty: DPH Biologicals warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of DPH Biologicals and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. **IN NO CASE WILL DPH BIOLOGICALS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**



P-F-T&O-RTXCL-5LB

Mixing and Application:

DO NOT USE ON FOOD CROPS OR ON PERENNIALS THAT MAY BEAR FRUIT WITHIN ONE YEAR. Tank mix RootXcell according to the directions in the table below. For liquid applications, it is recommended to pre-dissolve the product in a small amount of water, creating a slurry, prior to adding to the spray tank. Use of a 50 to 100-mesh screen to filter the slurry prior to adding to the spray tank or incorporating a 50 to 100-mesh screen in your application system to prevent clogging is recommended. Ensure adequate agitation during use to maintain suspension. Mix only enough for the immediate application. Do not mix product with bactericides or copper compounds. For fertilizer tank mixing, follow fertilizer manufacturer's directions for mixing priority. It is recommended to mix RootXcell with other products the day of use.

TREE, SHRUB, PERENNIALS, & NURSERY/GREENHOUSE APPLICATION		
Application Method	Rate	Frequency/Directions
Transplant/New Installation	Mix 1 – 2 lb. of product per 100 Gallons of water (0.16 – 0.32 oz. per Gallon) Metric: Mix 0.48 – 0.95 kg of product per 400 L of water (1.2 – 2.4 gram per L)	Apply the suspension as a drench to the root ball at the time of planting prior to backfilling. Use 1 Gallon (4 L) of solution per each Gallon (4 L) of container or root ball size.
Deep Root Feeding/Injection Application for Established Tree Maintenance	Mix 0.28 oz. (8g) of product per water volume to be used per 1" (2.54 cm) of DBH (diameter at breast height) of the tree.	Total volume to be applied for your application will be based on injection equipment being used and DBH of the tree. For example, a 10" (25.4 cm) tree would get 2.8 oz (80 g) of product in the total water volume used. Apply one to four times annually depending on tree health. Distressed trees should receive multiple applications throughout the growing season.
Drench Application for Established Tree Maintenance	Mix 1 lb. of product per 100 Gallons of water (0.16 oz. per Gallon) Metric: mix 0.48 kg of product per 400 L of water (1.2 grams per L)	Apply 2 Gallons (7.5 L) of diluted mixture per 1" (2.54 cm) DBH. Evenly distribute the drench around and within the dripline of the tree. Ensure that the drench is absorbed into the soil and that there is no runoff. Apply one to four times annually depending on tree health. Distressed trees should receive multiple applications throughout the growing season.
Nursery Maintenance/Sizing Up Containers/Seed Bench	Mix 8 – 16 oz. into 100 Gallons of water (0.08 – 0.16 oz. per Gallon) Metric: mix 240 – 475 grams of product into 400 L of water (0.6 – 1.2 g per L)	Apply when liners are potted, and each time the plant is repotted into a larger container. Apply one quart (1 L) of solution per nominal Gallon (4 L) of container size.
Cutting Bench	Mix 1 lb. of product into 100 Gallons of water (0.16 oz per Gallon) Metric: mix 0.48 kg of product into 400 L of water (1.2 grams per L)	Apply when cuttings are stuck by dip application. Graft: after scion has been grafted to root stock, drench container by applying one quart (1 L) of solution per each nominal Gallon (4 L) of container size.
TURF APPLICATION		
Application Method	Rate	Frequency/Directions
Seed Treatment	0.35 oz – 0.7 oz / 100 lb of grass seed Metric: 11 – 22 g / 50 kg of grass seed	Blend product with seed to be treated. Higher rate recommended for smaller seed diameters.
Established Turf	8 oz – 16 oz of product per acre (0.18 oz – 0.36 oz per 1000 ft ²) Metric: 560 g – 1.12 kg of product per hectare (56 g – 112 g per 1000 m ²)	Mix product with amount of water for your coverage needs.