

72639-12

2-16-2005

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LT BioSyn, Inc.

MegaGro™ L

Reduces transplant shock and promotes plant growth

Not For Use, Sale or Resale in California

[Note to reviewer – the California restriction is optional language and may not be included on final product labeling]

ACTIVE INGREDIENTS:	By wt
3-Indolebutyric acid (IBA)	0.85%
Cytokinin, as Kinetin	0.15%
OTHER INGREDIENTS:	99.00%
TOTAL	100.00%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
HOTLINE	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For general product information, call LT BioSyn, Inc. at (909)-348-5133 between the hours of 9 a.m. – 4 p.m. Pacific Time.	

**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

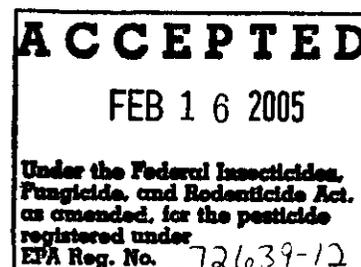
Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

EPA Reg. No. 72639-12

EPA Est. No.

LT BioSyn, Inc.
3406 Pomona Blvd
Pomona, CA 91768
USA

Net Contents: As marked on container



PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: long sleeved shirt and long pants, chemical resistant gloves Category A, such as butyl rubber ≥ 14 mils, or natural rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils or nitrile rubber ≥ 14 mils and shoes plus socks. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during applications. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical resistant gloves Category A, such as butyl rubber ≥ 14 mils, or natural rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils or nitrile rubber ≥ 14 mils
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter without appropriate protective clothing until sprays have dried.

GENERAL INFORMATION

MegaGro™ L contains two (2) different plant growth regulators (PGRs) that synergistically stimulate early and improved root development. In addition, **MegaGro™ L** contains a mixture of vitamins that aid in successful transplanting and plant growth.

USE DIRECTIONS FOR CHEMIGATION

MegaGro™ L can be applied through fixed or standing irrigation systems although foliar applications are preferred. Apply this product only through the following types of irrigation systems:

1. Sprinkler including big gun, solid set or hand move irrigation systems.
2. Calibrated overhead watering booms
3. Drip (or micro sprinkler) irrigation systems

Before applying this product through any type of irrigation system, perform a small-scale trial to determine if product performance and phytotoxicity results are acceptable. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems), used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Agitate the pesticide supply tank throughout the application of **MegaGro™ L**. Except for turfgrass, apply **MegaGro™ L** at the rate of 20 fl. oz. per acre at the end of the irrigation period in a sufficient

amount of water to allow proper coverage of plant or crop. Fill the supply tank one-half full with water, add the appropriate amount of **MegaGro™ L** to the tank and finish filling the tank with water.

DRIP/TRICKLE OR SPRINKLER CHEMIGATION

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment (this statement only applies to sprinkler chemigation).

Agitate the pesticide supply tank throughout the application of **MegaGro™ L**. Except for turfgrass, apply **MegaGro™ L** at the rate of 20 fl. oz. per acre at the end of the irrigation period in a sufficient amount of water to allow proper coverage of plant or crop.

Fill the supply tank one-half full with water, add the appropriate amount of **MegaGro™ L** to the tank and finish filling the tank with water.

SUGGESTED MINIMUM SPRAY VOLUME (GALLONS) PER ACRE WHEN APPLYING MEGAGRO™ L:

Crop	Ground		Air
	Dilute	Concentrate	
Vegetables, Field Crops	15	---	5
Small fruits, Vines, Miscellaneous	150	50	15
Tree crops	400	50	20
Citrus	800	100	20

Depending upon the equipment used, and the specific crop, the spray volume applied per acre will differ.

Special considerations: **MegaGro™ L** compatibility with other agricultural products has not been fully investigated. Compatibility of **MegaGro™ L** with other products requires testing for crop safety and performance prior to large-scale use. Products mixed with **MegaGro™ L** must be acidic (pH less than 7). Do not mix **MegaGro™ L** with any product(s) having a pH greater than 7. Repeat application may be necessary if it rains within 2 hours after application

Depending upon the equipment used and specific crop, spray volume applied per acre will differ. Apply sufficient water volume to ensure thorough coverage.

APPLICATION INSTRUCTIONS

TO REDUCE TRANSPLANT SHOCK AND PROMOTE NEW PLANT GROWTH

Crop	Amount of MegaGro™ L (fl. oz.)	Application Timing	Remarks
Brassica Vegetables such as: Broccoli, Cauliflower, Cabbage & Mustard Greens	Drench application in transplant water at 1.3 fl. oz. per 10 gallons water.	1 st : At time of transplant. 2 nd : 10-14 days after first application.	Foliar application: Apply to achieve full coverage; use a non-ionic surfactant for hard to wet crops such as cabbage.
	Foliar application: 2 fl. oz. per acre*	1 st : At 2-4 true leaf stage. 2 nd : 10-14 days after first application.	
Leafy Vegetables such as: Celery, Head lettuce, Leaf lettuce and Spinach	2 fl. oz. per acre*	1 st : At 2-4 true leaf stage. 2 nd : 10-14 days after first application.	Thorough spray coverage is necessary.
Cucurbit Vegetables such as: Cucumber, Muskmelon, Cantaloupe, Summer squash, Watermelon and Honeydew	2 fl. oz. per acre*	1 st : If seeded, apply at 2-4 true leaf stage. 2 nd : 10-14 days after first application.	Enhances root growth.
		1 st : If transplanted, apply when new growth starts. 2 nd : 10-14 days after first application.	
Fruiting Vegetables such as: Tomato, Pepper and Eggplant	2 fl. oz. per acre*	1 st : At 2-4 true leaf stage. 2 nd : 10-14 days later.	To maximize yield.
Corn (Sweet, Field and Popcorn)	2 fl. oz. per acre*	Two applications: 1 st : At 2-3 leaf stage. 2 nd : 7-14 days after first application.	Can be tank mixed with Glyphosate products registered for use on Roundup Ready® corn.
Tuber Vegetables such as: Potato, Sweet potato, Yam	2 fl. oz. per acre*	1 st : At 2-4 true leaf stage. 2 nd : 10-14 days after first application.	Foliar application: apply thoroughly until dripping.
Root Vegetables such as: Carrot, Radish, Turnip, Ginseng, Horseradish, Parsley (turnip-rooted) and Sugar beet	2 fl. oz. per acre*	1 st : At 2-4 true leaf stage. 2 nd : 10-14 days after first application.	Foliar application: thorough spray coverage is necessary.
Citrus Fruits such as: Sweet orange, Lemon and Grapefruit	13 fl. oz. in 100 gallons water	Apply when fruit are 5 mm in size. Make additional applications if needed.	Thoroughly apply spray.
Pome/Stone Fruits such as: Apple, Apricot, Cherry, Plum, Plumcot and Peach	13 fl. oz. in 100 gallons water	Apply when fruit are 5 mm in size. Make additional applications if needed.	
Grape	4-6 fl. oz. in 100 gallons water	1 st : Apply when grapes are 2-3 mm in size. 2 nd : 10-14 days after first application. 3 rd : 45 days prior to harvest. 4 th : 30 days prior to harvest.	Increases berry size.

Crop	Amount of MegaGro™ L (fl. oz.)	Application Timing	Remarks
Strawberry	1.3 fl. oz. in 10 gallons water	1 st : Spray immediately after transplant. 2 nd : 10-14 days after first application.	Thoroughly apply spray.
Cotton	2 fl. oz. per acre*	1 st : At 2-4 true leaf stage 2 nd : 10-14 days after first application Can be tank mixed with Glyphosate products registered for use on Roundup Ready® cotton.	Thorough spray coverage is necessary. Can be tank mixed with Glyphosate products registered for use on Roundup Ready® cotton.
Sorghum	2 fl. oz. per acre*	1 st : At 2-leaf stage. 2 nd : 10-14 days after first application. 3 rd : 10-14 days following second application.	Thorough spray coverage is necessary.
Peanut	2 fl. oz. per acre*	1 st : At 2-4 true leaf stage. 2 nd : 10-14 days after first application.	Thorough spray coverage is necessary.
Legume Vegetables (Succulent or dry) such as: Soybean, Peas, Chinese long beans	2 fl. oz. per acre*	1 st : At 2-4 trifoliate leaf stage. 2 nd : 10-14 days after first application.	Can be tank mixed with Glyphosate products registered for use on Roundup Ready® soybeans.
Rice	2 fl. oz. per acre*	1 st : At 4-5 leaf stage.	Thorough spray coverage is necessary.
Wheat	2 fl. oz. per acre*	1 st : At 2-4 leaf stage.	Thorough spray coverage is necessary.
Canola (Oil)	2 fl. oz. per acre*	1 st : At 2-4 leaf stage.	Can be tank mixed with Glyphosate products registered for use on Roundup Ready® canola.

*If application spray volume is greater than 15 gallons per acre, use the dilution rate of 13 fl. oz. per 100 gallons water.

TURFGRASS

For Sod Grass: Apply MegaGro™ L by ground using 20-40 gallons of water per acre. Use 2.5 fl. oz. to 6.5 fl. oz. product in 20 gal. to 40 gals. of water, respectively, at a 1:1000 dilution rate.

For Turfgrass: Apply MegaGro™ L by ground according to the table below using 1-10 gallons of water per 1000 sq. ft.
Use MegaGro™ L for **turf growth suppression** at the dilution rate of 1: 300 (4.2 fl. oz. product per 10 gals. water)

<u>Turf</u>	<u>Amount</u> (MegaGro™ L/gals water/1000 sq ft*)	<u>How and when to apply</u>
Warm Climate grasses such as: St Augustine, Bermuda, Bermuda hybrids, Centipede & similar warm season grasses	0.13-0.65 fl.oz./1-5 gals of water/1000 sq. ft.	Make applications at 2-week intervals during the growing season.

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<u>Turf</u>	<u>Amount</u> (MegaGro™ L/gals water/1000 sq ft*)	<u>How and when</u> <u>to apply</u>
Dichondra	0.65-1.3 fl. oz./5-10 gals of water/1000 sq. ft.	Make applications at 2-week intervals during the growing season.
Cool Climate grasses such as: Bluegrass, Rye, Fescue, and similar cool season grasses	0.13-0.65 fl. oz./1-5 gals of water/1000 sq. ft.	Make applications at 2-week intervals during the growing season.

*Apply 0.13 fl. oz. per gallon

ORNAMENTALS

Greenhouse and nursery grown ornamentals

Differences in responsiveness may vary from one cultivar to another or from one set of growing conditions to another. Unless previous experience dictates otherwise, prior to widespread use, test a small number of plants from each cultivar to verify desired efficacy.

Foliage Plants:			
Aglaonema	Ajuga	Anthurium	Aphelandra
Caladium	Cissus	Dieffenbachia	Dracaena
Ficus	Fittonia	Gynura	Hoya
Maranta	Palms	Peperomia	Philodendron
Pilea	Pothos	Schefflera	Schlumbergera
Spathiphyllum	Syngonium	Tradescantia	
Similar foliage plants			
.....			
Bedding and Flowering Plants:			
Abutilon	Aglais	Alyssum	Calceolaria
Canna	Carnation	Champaca	Chrysanthemum
Cineraria	Columbine	Coral Bells	Cyclamen
Dahlia	Delphinium	Dianthus	Foxglove
Fuchsia	Gardenia	Gazania	Geranium
Gladiolus	Gloxinia	Impatiens	Iris
Jasminum	Lily	Lupine	Marigold
Michelia	Monarda	Osmachus	Petunia
Poinsettia	Portulaca	Roses	Salvia
Scabiosa	Sedum	Sempervivum	Tulips
Vinca	Zinnia	Similar plants	
.....			
Woody Ornamentals			
Arborvitae	Aucuba	Azalea	Boxwood
Carissa	Chinese magnolia	English Ivy	Holly
Juniper	Maple	Pine	Podocarpus
Rhododendron	Viburnum	Similar plants	
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Garden Grown Tree Fruits			
Apple	Asian pear	Apricot	Cherry
Fig	Guava	Grape	Jujubee
Kumquat	Lemon	Litchi	Longara

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Mango Plum	Orange Prunus	Peach Starfruit	Persimmon Similar plants
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Application Rates and Timing:			
Dilute 0.85 fl. oz. of MegaGro™ L in 10 gallons of water (1:1500 dilution rate) for plants less than 2 years old. Dilute 1.3 fl. oz. MegaGro™ L in 10 gallons of water (1:1000 dilution rate) for mature plants. Repeat applications at 10-14 day intervals when required. Apply the last spray 1-2 weeks prior to sale. Uniform and thorough spray coverage is necessary for best results.			

CUTTINGS

Dilution rate:

For softwood cuttings use a 1:20 dilution rate (0.5 fl. oz. product in 10 fl. oz. of water); **For medium wood cuttings use a 1:10 dilution rate** (One fl. oz. product in 10 fl. oz. of water); **For hard wood cuttings use a 1:5 dilution rate** (Two fl. oz. product in 10 fl. oz. water).

MegaGro™ L: Use on all nursery stock cuttings including **Woody ornamentals, Deciduous hardwoods, Evergreens, Ground Covers, and Perennials** such as: African violet, Arborvitae, Azalea, Aster, Barberry, Begonia, Boxwood, Camellia, Crape-myrtle, Clematis, Chrysanthemum, Cypress, Dahlia, Delphinium, Dogwood, Eponymous, Forsythia, Fuchsia, Geranium, Heather, Hibiscus, Holly, Honeysuckle, Ivy, Japanese quince, Jasmine, Juniper, Lilac, Magnolia, Minor, Myrtle, Pachysandra, Photinia, Pivet, Pyracantha (Firethorn), Rhododendron, Rose, Spirea, Yew, Viburnum, Vinca, Wriggle and many others.

Obtain cuttings from vigorous, healthy plants and keep cuttings moist and cool such as in an ice chest. With a sharp knife, trim the cutting (2-8 inches long) with a diagonal cut just below a node or leaf. Dip the basal end of cutting, individually or in bunches, into the **MegaGro™ L** solution for **3-5 seconds**.

Following dipping, place cuttings into planting medium. Depending on the species, rooting will take place in several weeks or months under a moist greenhouse environment. Transplanting may be performed once the cuttings have rooted.

TO REDUCE TRANSPLANT SHOCK AND PROMOTE NEW ROOT GROWTH- For Shrubs, Flowers, Groundcovers & Houseplants

Rose, Arborvitae, Gardenias, flowering trees and other ornamentals in bare root transplant or from containers: Use 2 tablespoons of **MegaGro™ L** per 10 gallons of water. Apply solution to root area in transplanting hole and then cover roots with soil. After planting, repeat applications biweekly as a drench to thoroughly wet the root area using a solution consisting of one tablespoon of **MegaGro™ L** per 10 gallons of water.

Annual and perennial flowers (bedding plants): Use one tablespoon of **MegaGro™ L** per 10 gallons of water and apply to thoroughly saturate roots at time of planting. Repeat at weekly intervals until plants are well established.

Groundcovers such as, Ivy, Iceplants, Geranium, Cotoneaster, Barberry, & Ajuga: Use 1 tablespoon of **MegaGro™ L** per 10 gallons of water and apply thoroughly to saturate the root area at time of planting. Repeat at weekly intervals until plants are well established.

Houseplants (repotting and planting): Use 1 tablespoon of **MegaGro™ L** per 10 gallons of water and water thoroughly at weekly intervals to saturate the root zone until plants are well established.

Established plants: To continue new root growth, use 1 tablespoon of **MegaGro™ L** per 10 gallons of water and water plants with solution once a month.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE:

MegaGro™ L should be stored in its original container in a cool, dry locked place out of the reach of children and out of direct sunlight.

PESTICIDE DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER

NOTICE: LT BioSyn, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use. Buyer assumes all risks of use and handling which is a variance in any way with the directions herein. LT BioSyn, Inc. makes no other express or implied warranty of fitness or merchantability. In no case shall LT BioSyn, Inc. or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. LT BioSyn, Inc. and Seller offer this product and the Buyer and user accept it, subject to the foregoing **Limited Warranty and Disclaimer** which may be varied only by agreement in writing signed by a duly authorized representative of LT BioSyn, Inc.

LT BioSyn, Inc.
3406 Pomona Blvd
Pomona, California 91768, USA
Tel: (909) 348-5133 Fax: (909) 348-5135
E-mail: info@ltbiosyn.com

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