

**“Bioactivated Base *actosol*® Improved Plant Quality, Enhanced Root Development on Variety of Ornamentals and Reduced the Production Time of Marketability of Container Ornamentals at Michael Nursery, FL”
Mark Battaglini, Production Manager, December, 2007**

In the winter of 2007, a study was conducted to evaluate the use of *actosol* on established greenhouse crops. All crops were fertilized and grown under the same similar growing conditions. The following crops were tested: Dracena Lime (6”), Agalomena Silver Queen (6”), and Geranium (14”) The rate of *actosol*® was 8oz/6” container and 32oz/14”. All plants received 16-8-8 (100 days fertilizer).

TREATMENTS:

The following treatments were evaluated on growth and performance when using soil drenched with *Base actosol*. Two applications were made during the course of this study.

1. .5 gallons *actosol* / 400 gallons(1:80 ratio)
2. 2.5 gallons *actosol*/ 100 gallons(1:40 ratio)
3. 3 gallons *actosol*/ 90 gallons (1:30 ratio)
4. Grower Standard

RESULTS:

Results from our study were evaluated after two months and noted the following responses:

Agalonema Only slight difference in root mass occurred after the first application. Rates of *actosol* at 1:40 and 1:30 showed significantly better foliage growth compared to (1:80) after 2 soil drenches. *actosol* vs. non *actosol* showed that the lower dilution rates (1:30) showed significantly better differences in foliage growth compared to the non *actosol* treatments.

Dracena; Results on Dracena treated plants showed that 1:30 concentration provided the best overall foliage crop and quality (photo 1) Comparisons of no *actosol* vs. the 1:80 showed no significant difference.

Geranium; The 1:30 (3 gallons of *actosol*/90 gallons of water) rate showed the best results followed by the 1:40 (2.5gallons of *actosol*/100 gallons). Comparisons of *actosol* vs. non *actosol*® treatment grower standard showed only a moderate improvement.

DRACENA LIME 6” CONTAINER



Grower standard

actosol Treatment #3