

Successful Root Development at Exotic Botanicals, Miami, FL

Table 1. Drench application for 100 gallons of water

Product	Quantity
Expert Additive	170 oz

Products used:

- **Expert Additive:** Extract of freshwater unicellular algae with potassium, which improves nutrient assimilation and root development.

Results 7 Days After Application on Gardenias

Control



Cropcell

Impact of Expert Additive on Root Development

The test performed in Exotic Botanicals using **170 oz of Expert Additive in 100 gallons of water** applied as a drench on gardenia seedlings showed a noticeable impact on root development in just **7 days**.

This result directly reflects the effectiveness of the scientific and technological principles on which **Expert Additive** is based.

1. Accelerated Root Development:

The increase in root density and length observed in seedlings treated with Expert Additive can be explained by the combined action of **unicellular algae extracts and ICE technology**. The auxins, cytokinins and gibberellins present in the unicellular algae extracts stimulate root growth, promoting their elongation and branching.

2. Efficient Nutrient Uptake:

The use of Expert Additive improved nutrient availability in the soil, facilitating three times faster and more efficient absorption of nitrogen, phosphorus and potassium, thanks to **Enhanced Cell Exchange (ICE) technology**. This allowed seedlings to access essential nutrients more effectively, which not only accelerated their root development, but also improved the overall health of the plant.

3. Increased Useful Microbiology:

Expert Additive technology also increases useful soil microbiology, such as phosphorus-solubilizing and nitrogen-fixing bacteria. These microorganisms helped convert nutrients present in the soil into forms available to the plant, boosting growth.

4. Reduced Production Times and Costs:

The fact that seedlings developed stronger roots in just 7 days implies a direct advantage for growers. A more efficient root system means that plants require **less time in the greenhouse** and fewer fertilizer applications, as they can absorb nutrients more efficiently. Not only does this reduce production costs, but it also **speeds up time to sale**, allowing for faster crop turnover and a higher return on investment.

5. Sustainability and Profitability:

In addition to the agronomic benefits, Expert Additive's eco-friendly technology ensures that growers can improve the productivity of their crops sustainably, without resorting to harsh chemicals.

Conclusion:

The results obtained in the trial with 170 oz of Expert Additive are a demonstration of how the scientific and technological foundations of the product translate into tangible agronomic benefits. **Accelerated root development, greater efficiency in nutrient absorption and reduced production times** are benefits that positively impact the profitability and sustainability of gardenia cultivation.