

Title Effect of different nutrition solution programs on reducing vegetables fungal diseases to produce high quality and safety vegetables products

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### **Abstract**

The effects of different nutrition solutions especially the addition of silicon (Si) and calcium (Ca) on cucumber downy mildew disease were examined. Cucumber plants grown under greenhouse were treated with nutrient solutions amended with different concentration of Si and Ca. Selected leaves inoculated with sporangia of the pathogen. Percentage of infected leaves and disease severity observed in inoculated plants were significantly reduced when nutrient solution amended with Si or Ca. Best results were obtained in nutrient solution amended with 100 ppm Si.