

# **THE RESULTS OF RESEARCH ABOUT AFFECTING OF SUBSTRATE AND NUTRITION FORMULAS TO QUALITY OF TOMATO AND CUCUMBER SEEDLINGS IN HI-TECH PRODUCTION**

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## **Summary**

In order to improve the quality and the rate of vegetable seedling in industrial production for the Northern provinces, in 2019, the Field Crops Research Institute has studied and evaluated 5 substrate formulas and 3 different nutritional formulas affecting to the quality of tomato and cucumber seedlings. The results have identified the suitable substrate: 30% alluvial soil + 60% coir + 10% husk and nutrition: NPK (13: 13: 13-TE), 0.2% concentration provided to cucumber plants at 6-7 days after growing and 12-14 days after growing for tomato plants. Seedlings have the best quality, the uniformity reached 98.5%, the rate of outplanting > 97.3% and the cost decreased, only 36.3% of the TNB1 substrate and 27.9% of the BVB substrate (imported from Israel)

**Keywords:** *Tomato seedling, cucumber seedling production, nutrition and substrate.*