

**THE EFFECT OF NUTRIENT SOLUTION COMPOSITION ON TOMATO PLANT
PRODUCTIVITY IN THE LOW-VOLUME CULTIVATION IN CONTROLLED
AGROECOSYSTEM**

O. R. Udalova , G. G. Panova, L. M. Anikina , V. L. Sudakov

Agrophysical Research Institute, 14 Grazhdanskiy prospekt, St. Petersburg, 195220, Russia

E-mail: lanikina@yandex.ru

The effect of nutrient solution composition on tomato plants growth and productivity was studied in the low-volume cultivation experiment in controlled agroecosystem. Several nutrient solutions were studied. It was shown that between most of the compared solutions there was no difference in tomato yields but the combination of two nutrient solutions developed by the authors was statistically better than all the others and resulted in higher tomato yields.

Key words: low-volume technology, tomatoes, nutrient solution, productivity, controlled agroecosystem.