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The invention relates to agriculture and may be used in the tobacco seedlings stimulation with physiological active substances.

The process comprises sowing of tobacco seeds into the soil, pouring of the tobacco seedlings with 0,005% gumate sodium solution.

The novelty in the process is, that beforehand pouring the tobacco seedlings with 0,005% gumate sodium solution within 10 days is accomplished its out-of root feeding with 0,003% gumate sodium solution. The expense norm of the gumate sodium solution on the out-of-root feeding being of 0,35-0,40 l/m². The seedlings pouring is being done by the solution's expense norm of 2,0-2,5 l/m² in 30 days after the seeds sowing. Before pouring the seedlings with the gumate sodium solution, the soil is dried a little.

The technical result of the invention consists in reducing the treatment's operations, in rising the seedlings quality by preserving the soil's structure, in reducing the seedlings distillation terms and in decreasing the preparation's expense.