# The efficacy of some biopesticides and vegetal metabolites in the control of spireas aphid aphis Spiraephaga M□ ller (O. Homoptera – f. Aphididae)

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The aim of experiments was to establish the efficacy of some bio pesticides and vegetal metabolites from autochthon plants which can be used in the control of aphids on agricultural and ornamental crops. The experiments were carried out under laboratory conditions, the treatments being applied on shoots with leaves affected by aphids, placed in growth boxes. The efficacy (E%) after the percentages of mortality was calculated
according to the Schneider-Orelli formula. Four days after the treatment, the efficacy of the bio insecticides to
control spireas aphid varied between 95 - 100% (active ingredients: spinosad, azadirachtin and milbecmectin). By application of the water extract, after four days, high efficacy was registered on Aristolochia clematidis (90%), Artemisia absinthium (80%), Urtica dioica (50%), Sambucus ebulus (50%) and Tanacetum vulgare (54%). The alcohol extracts increased the efficacy on plants like Tanacetum vulgare (70%), Urtica dioica (60%), Sambucus ebulus (85%), Aristolochia clematidis (95%), but decreased on Artemisia absinthium (55%).