THE BEHAVIOUR OF *SYRINGA VULGARIS* IN THE PROCESS OF IN VITRO CULTURE

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**Keywords:** *Syringa vulgaris*, micro propagation, explants, micro shoot, growth regulators

**SUMMARY**

The achieved research had as objective the quickly propagation of Madame Lemoine and Charles Joly cultivars towards commerce to the container, as plants with small vigour. Biological material used for initiation stage of in vitro culture was represented by the explants taken from buds in April.

The explants had a good behaviour in the initiation and multiplication stage of in vitro culture and for it was establish the optimum rapport between auxin and cytokinine. The rooting of micro shoots was realized „extra vitro” on the perlit substrate after their treatment with rooting stimulation with Radistim.

The experiment was realized in 6 experimental variants for each stage of in vitro culture, in 3 repetitions. Variable factors: A – Genotype with 2 graduations: A1= Madame Lemoine, A2 = Charles Joly; B – Composition of nutritive medium with 3 graduations – B1,B2, B3.

Analyzing the achieved results regarding the genotype influence on the constant level of nutritive medium, from point of view of media effect we observed better percent of growing explants of Charles Joly than Madame Lemoine. The medium effect regarding the growing of explants in the case of the influence of nutritive medium for different genotypes indicate a better manifestation of B3 medium influence (86,5%), follow by the B1 with 78 % and B2 with 66%. We suggest to used 0, 5 mg/l BAP for growing stage of explants and an optimum rapport between auxin and cytokinine (0,004 mg/l, NAA / 1,2 mg/l BAP for multiplication stage. Rooting of ex vitro of micro cutting taken from multiplication medium registered higher values (91%) for Madame Lemoine than Charles Joly (79%).

Starting with these results, the studies that will be realize in the future will have as point of start the study of behaviour of others cultivars in the in vitro culture and to increase the rate of propagation by optimize the culture substrate.

**REFERENCES**