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In vitro Multiplication and Growth of *Spathiphyllum cannifolium* 2. Effect of MS Salt Strength and Sucrose Concentration

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Objectives

The multiplication medium were modified to stimulate shoot multiplication and growth response

Materials and Methods

Material: in vitro shoots (25±2mm, 17±2 mg)
Methods: Modification of the multiplication medium
- Treatments
- MS salt strength: full strength, 1/2 strength and 1/4 strength
- Sucrose concentration: 15, 30, 50, 70, 90 g/L

Results and Discussion

Of the different strengths of MS medium tested, lower strength dramaticly decreased both shoot number and plant growth. MS full strength was found to be optimal.
Shoot number significantly decreased with both lower sucrose concentrations of 15g/l and higher concentration of 70, 90 g/l. On the other hand, 50 g/l of sucrose significantly stimulated shoot growth in comparison with other concentrations. 30 g/l of sucrose was optimal concentration for shoot multiplication of S. *cannifolium.*

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