Micropropagation and Cell Suspension Culture of *Rosmarinus Officinalis*

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Abstract

Leaf explants obtained from potted seedlings were used to establish an *in vitro* shoot organogenesis propagation system of *Rosmarinus officinalis*. Modified VW medium supplemented with 5mg/l 2,4-D and 0.5mg/l BA resulted in a better textual callus after cultured in light for 2 months. When callus proliferated, it could have the best effect after cultured in MS medium containing 2mg/l BA and 0.2mg/l NAA. Addition of absorbents (PVP) were beneficial for shoots regeneration, and increasing the rate of normal plantlets regeneration. In cell suspension culture experiment, callus filtered through 0.71 mm filter had the best growth respones. It could be expected to be used for the methods of future flavor industry.

Key words: Rosmarinus officinalis, Tissue culture, Cell suspension culture

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