

Enhanced Rosmarinic Acid Production by *Lavandula vera* MM Cell Suspension Culture through Elicitation with Vanadyl Sulfate

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The influence of elicitation on rosmarinic acid biosynthesis by *Lavandula vera* MM cell suspension culture was investigated using vanadyl sulfate as an abiotic elicitor. It was established that 12 h after treatment with 25 mg/l vanadyl sulfate the rosmarinic acid production was increased up to 3.92 g/l (2.8 times higher compared to the control cultivation). No significant amounts of rosmarinic acid were detected in the culture medium in comparison with its intracellular content. However, it was observed that the extracellular content of rosmarinic acid is 3.3 times higher compared to the control variant (4 h after treatment at elicitor concentration 25 mg/l).

Key words: Elicitation, *Lavandula vera* MM, Rosmarinic Acid, Vanadyl Sulfate