

Rosmarinic Acid and Other Phenolic Acids in Hairy Roots of *Hyssopus officinalis*

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Hairy roots of *Hyssopus officinalis* L. were induced by infection of petioles with *Agrobacterium rhizogenes* LBA 9402 and studied for production of phenolic acids, especially rosmarinic acid (RA). The highest content of rosmarinic acid (about 6% of dry weight) was obtained in hairy roots grown in Gamborg's B5 liquid medium containing 10% (w/v) sucrose. The level was at least 60% higher than those found in callus, cell suspension culture and roots of one-year-old field grown plants. Apart from RA, nine other phenolic acids were detected in transformed roots and quantified by gas chromatography.

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