STUDY OF BIOTRANSFORMATION COMPOUNDS IN CALLUSAR CULTURE OF *RHODIOLA ROSEA* SPECIE

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Abstract

Rhodiola rosea L. is a well known species of plants, which has been used medicinally for decades, but study of its pharmacological effects and the compounds responsible for it use still continues. We present data about induced accumulation of secondary metabolites and as well the results of biotransformation of cinamic alcohol in callus culture of *R. rosea* of Carpathian origin under the influence of same stress factors. The presence of secondary metabolites was investigated by HPLC-MS analysis. The obtained results can be used for selection of valuable genotypes and their future cultivation in artificial conditions.

Key words: *Rhodiola rosea* L., callus culture, cinnamyl alcohol, HPLC-MS analysis.