

***In vitro* Propagation and Chemical and Biological Studies of the Essential Oil of *Salvia przewalskii* Maxim.**

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The procedure of *Salvia przewalskii* shoot multiplication and the ability of regenerated plants to produce essential oil is reported. The essential oil was obtained by hydrodistillation from leaves and flowering stems of field-grown plants, and their chemical composition was examined by GC, GC-MS and ¹H NMR. The differences in yield as well as qualitative and quantitative composition between the oils isolated from *in vitro* and *in vivo* plants were observed. *S. przewalskii* essential oil was tested for its antimicrobial and cytotoxic properties. It was found that cytotoxicity against human leukemia HL-60 cells and antimicrobial activity (especially, against *Staphylococcus aureus* and *S. epidermidis* strains) of oils isolated from *in vitro* plants were higher than those for oils from *in vivo* *S. przewalskii* plants.

Key words: *Salvia przewalskii*, Essential Oil, Antimicrobial and Cytotoxic Activity