

INVESTIGATION OF LIPID COMPOSITION OF RHIZOMES

WITH ROOTS OF *IRIS HUNGARICA* (IRIDACEAE)

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SUMMARY

Qualitative and quantitative composition of fatty acids of total lipids in rhizomes with roots of *Iris hungarica* Waldst. et Kit. has been studied by gas chromatography-mass spectrometry method. 19 fatty acids have been identified (total amount was 0.5 %), 12 of them were saturated, 4 were monoenoic, 2 were diene, 1 was triene carboxylic acids with a chain length from 12 to 26 carbon atoms. Myristic (C14:0) 2200 mg/kg, linoleic (C18 : 2w6) 650 mg/kg, palmitic (C16 : 0) 620 mg/kg fatty acids were prevalent. By the method of TLC pigments (chlorophylls, carotenoids, tocopherols) were identified in lipophilic fraction of rhizomes with roots of *Iris*. Quantitative contents of carotenoids and chlorophylls a and b were determined by method. Double bond index of fatty acids was calculated (0.44 %).

Key words: *Iris hungarica*, rhizomes, lipids, fatty acids, chlorophylls, carotenoids.