DETERMINATION OF SOME ESSENTIAL ELEMENTS IN DIFFERENT TYPES OF ROMANIAN FLORAL AND NON-FLORAL BEE HONEYS AND PROPILS

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Abstract

The aim was to study the content of iron, manganese, magnesium and zinc in honey from different sources (sun flower, conifers, multifloral, mountain flowers, pine tree forest, acacia and linden tree) in fourteen regions of Romania and in two commercial samples, respectively in propolis collected from three regions. The chemical composition of bee products varies with the surrounding environment (plants, soil and water contamination), which reflects the nutrition value of honey and propolis. The investigated minerals were determined by flame atomic absorption spectrometry and were observed significant differences in the amount of Fe, Mn, Mg and Zn from honey and propolis according to their sources.

Keywords: bee honey, Fe, Mn, Mg, Zn, FAAS, honey, propolis

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