

ANALYSIS OF THE COMPOSITION, ANTIOXIDANT AND ANTIMICROBIAL ACTIVITY OF PROPOLIS OF THE CENTRAL ZONE OF MOLDOVA

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Abstract. The chemical composition, antioxidant and antimicrobial activity of propolis ethanolic and water-ethanolic extracts from the central zone of Moldova have been investigated by GC-MS and liquid chromatography. There were found 21 amino acids, of which the most abundant are glutamic acid, alanine, leucine and isoleucine. The main constituents of the alcoholic extract are pinocembrin, *n*-heptacosan and naringenin. The aqueous-alcoholic extract was characterized by the content of sakuranin, 4-methoxy sakuranetin, caryophylline oxide, isocaryophylline oxide, trans-longipinocarveol.

Keywords: propolis, GS-MS analysis, amino acids, chemical composition, antioxidant activity.