

Determination of antiradical activity of some plants with antidiabetic action

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Abstract

For studies, we choose some plants mixture, in different proportions. Combination of the five plants lead to synergy action of compounds with antioxidants properties, extracts obtained have hypoglycemic and astringent effects.

Antiradical activity was measured using DPPH (2,2-diphenyl-1-picrylhydrazyl) radical scavenging assays and relate to activity of ascorbic acid. The mixture of studied plants present radical scavenging activity comparative with activity of ascorbic acid.

Key words: antioxidants, radical scavenging activity, phenolic compounds, free radical DPPH

Studies on vegetal oils from sea buckthorn and wheat germs obtained by extraction with supercritical fluids

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Abstract

The paper presents analytical results on the content of active principles from sea buckthorn (*Hippophae rhamnoides*) and wheat germs oil obtained through extraction with supercritical fluids.

The extraction was realized in Sibiu on the Superfluids 5-3 Sep pilot installation in performant conditions both from quality and extract efficiency point of view.

In this paper are presented comparative results about the content of sterols and tocoferols of oils obtained through extraction with supercritical fluids and classic extraction. The analysis were made through method of chromatography in thin layer and density in sterolites and HPLC method in tocoferols. In analyzing the sterols it was emphasized the presence of beta sitosterol as representative component. The medium values in the case of wheat germs are between 0,52 and 0,66% and for the sea buckthorn oil between 0,12 and 0,32%. In the case of tocoferols analysis we can emphasize the fact that in sea buckthorn oil are present the isomers alpha, beta, gamma and delta tocoferol, while in wheat germs oil are present only alpha and beta tocoferol, their concentration being of ppm range for both oils.

Key words: vegetal oils, sea buckthorn, wheat germs, sterols, tocoferols