CZU: 576.354:665:634.743

SELECTIVE EXTRACTION OF POLYPHENOLIC COMPOUNDS FROM *HIPPOPHAE RHAMNOIDES* SEEDS

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The antioxidant properties of natural products are generally connected with the content of polyphenolic compounds, which can efficiently quench active free radicals and diminish oxidative stress of the living cells. This is very important both for maintaining and amelioration of cellular function and regarded as a relevant tool in wound tissue repair [1]. The oil obtained from the sea buckthorn (*Hippophae Rhamnoides*) represents a relevant remedy used in folk medicine for wound healing [2]. We report in the current communication the selec tive preparation of a polyphenol – rich extract from sea buckthorn seeds which are primarily used for oil production. The total content of phenolic compounds in the obtained extract was determined by Folin-Ciocalteu method against both galic and chlorogenic acids as standards. The high free radical scavenging ability was determined basing on the DPPH antioxidant assay. The cell-proliferation properties have been investigated by *in vitro* MTT tests on mesenchymal stem cells from rabbit bone marrow. The elaborated preparation method is simple and can be up-scaled for large production and following pre-clinical studies.

Acknowledgments: This work was funded by the National Agency for Research and Development (ANCD) of the Republic of Moldova: projects PLANTERAS, code 20.80009.8007.03.

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Keywords: antioxidant, buckthorn seeds, DPPH antioxidant assay, extraction, *Hippophae rhamnoides*, method, polyphenolic compounds.