

PROANTHOCYANIDINS IN THE ROOTS AND RHIZOMES OF *POTENTILLA ALBA* (ROSACEAE)

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SUMMARY

The main goal of the study was to analyze the phenolic compounds in the extract of roots and rhizomes of *Potentilla alba* L. by high-performance liquid chromatography and high resolution mass spectrometry. It was shown that the proanthocyanidins are the major phenolic compounds in the extract. Their total content was about 52 % based on extract dry mass, or 20 % — based on the raw material dry mass. For the first time B-type proanthocyanidin tetramers, a large number of A-type di-, tri-, tetra-, penta- and hexamers and substantial amount of polymeric proanthocyanidins of unknown structure were found in *P. alba*.

Key words: *Potentilla alba*, liquid chromatography, mass-spectrometry, phenolic compounds, proanthocyanidins.

