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Book of Abstracts

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ANALYS OF HYDROXYCINNAMIC ACIDS PULSATILLA PRATENSIS (L.) MILL.

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Pulsatilla pratensis (L.) Mill. (Ranunculaceae) distributed in the Central and Eastern Europe. The plant has a diuretic, expectorant, bactericidal, sedative and analgesic action.

Aim: The purpose of this work was the quantitative determination of o-dihydroxycinnamic acids in the grass and extracts of Pulsatilla pratensis with the object of studying groups of biologically active substances and developing a phytotherapeutic agent.

Materials: The object of our research were grass of *Pulsatilla pratensis* («Mir trave», Ukraine) and obtained from it water extraction (1:10) and tincture (1:5). Ethanol was used as extracting agent in the following concentrations 10%, 30%, 50%, 70%, 96%.

Methods. Determination of the quantitative content of o-hydroxycinnamic acids was carried out according to the European Pharmacopeia 8.0 method "Black horehound". The content of the sum of dihydroxycinnamic acids, calculated as acteoside, was determined as a percentage.

Results: As a result of the obtained experimental data it was established that the content of the sum of dihydroxycinnamic acids, in terms of acteoside in tinctures of Pulsatilla pratensis, obtained using 10%, 30%, 50%, 70%, 96% ethanol, and constitute $3,65\pm0,01\%$, $5,16\pm0,02\%$, $2,78\pm0,01\%$, $2,99\pm0,01\%$ and $2,03\pm0,02\%$ respectively. In an aqueous extract, the content of dihydroxycinnamic acids was $3,07\pm0,02\%$.

Conclusion: The quantitative content of dihydroxycinnamic acids in aqueous extract (1:10) and tinctures (1:5) from Pulsatilla pratensis grass was established. The greatest content of the investigated group of substances was established in 30% tincture (5,16±0,02%).

Keywords: Pulsatilla pratensis, hydroxycinnamic acids, aqueous extract, tinctures