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RESEARCH OF THE EXTRACTION METHODS OF PHYTOESTROGENS

Konovalenko I.S., Polovko N.P.

National University of Pharmacy, Kharkiv, Ukraine

Introduction. Menopause is a transitional period in the life of a woman from the reproductive phase with ovulatory cycles and corresponding cyclic changes in the reproductive system to the state of cessation of menstruation.

Objective. The purpose of the study was to research the conditions for extraction of medicinal plant collection for the treatment of climacteric syndrome, which included clover herb, herb thyme, yarrow herb, linden flowers.

Research methods. Infusion on the water bath, extraction with Soxlet extractor.

Main results. Researching pharmaceutical factors on the completeness of the extraction of active substances, were examined various collection fractions with a particle size from 1 to 6 mm. For each collection fraction, several extraction regimes were studied: infusion on a water bath from 10 to 60 minutes and cooling to room temperature from 10 to 90 minutes. Based on the obtained results, we established that rational parameters for obtaining aqueous extract from the collection by infusion on a water bath are 15 minutes and then infusing during 30 minutes to room temperature. The results of our research will be used in the development of a medical collection for the climacteric syndrome treatment.

References

1. Lemeziene N. The concentration of isoflavones in red clover at flowering stage/ N. Lemeziene, A. Padaruskas// *Zemderbiste-Agriculture*. – 2015. – Vol. 102, No.4. – P. 443-447.
2. Konovalenko I.S. *Izuchenie technologicheskikh svoystv sbora dlya lecheniya klimactericheskogo sindroma/ Modern achievements of pharmaceutical technology and biotechnology*. – 2016. – 318-319.