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ACCUMULATION FEATURES AND QUALITATIVE COMPOSITION OF FLAVONOIDS IN Betula L. LEAVES AND BUDS

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Abstract

The aim of the study was to examine the content and qualitative composition of flavonoids in the leaves and buds of Betula pendula Roth. and Betula pubescens Ehrh. growing in different environments. The qualitative composition, quantitative content and accumulation dynamics of flavonoids in the leaves and buds of Betula pendula Roth. and Betula pubescens Ehrh. growing in Tatarstan have not been studied before. As a result of the research, the dynamics of accumulation of flavonoids in crude drugs, their qualitative and quantitative composition, and the differences in their content in Betula pendula Roth. and Betula pubescens Ehrh. were determined. The effects of natural lighting conditions on the quantitative composition of flavonoids were revealed. At the same time the qualitative composition of flavonoids was not considerably affected by the lighting conditions. The periods of the highest flavonoids concentration in the leaves and buds of the species under study were defined. The differences in the flavonoids contents in leaves and buds were demonstrated. The optimal time for procurement of crude drugs were specified.

Keywords: flavonoids, qualitative composition, quantitative composition, birch, leaves, buds.

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Received April 25, 2013

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