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**E.Yu. Konovalova, T.K Shuraeva, T.V. Dzhan, LA. Dovga
DYNAMICS OF BIOLOGICALLY ACTIVE SUBSTANCES
ACCUMULATION IN RUBUS IDAEUS L. LEAVES OF
REMONTANT SORT IN ONTOGENESIS**

Key words: procyanidins, tannins, oxidizable polyphenols, flavonoids, amino acids, mineral elements

The quantitative content of the bioactive substances (tannins, flavonoids, amino acids, mineral elements) in leaves of raspberry of remontant sort "English" depending on the growth phase and vegetation is determined. It is showed that procyanidins, tannins and total oxidizable polyphenols contents in leaves of raspberry are maximal in flowering stage and higher in leaves from shoots of the first year of vegetation. Amount of flavonoids and amino acids was maximal at the early growing phase and higher in leaves from shoots of the first year of vegetation. By HPLC method was revealed that 51% of the total amino acid content are methionine, isoleucine, glycine and alanine. Raspberry leaves contains a number of essential mineral elements: iron, zinc, copper, manganese and nickel. The maximum content of zinc is observed at the beginning of the second year of vegetation, and nickel, rubidium and tin - at the beginning of first year of vegetation; rubidium - at the end of the second year of vegetation; manganese - and at the end of the first year of vegetation.

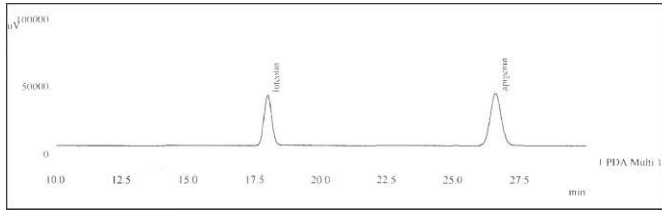
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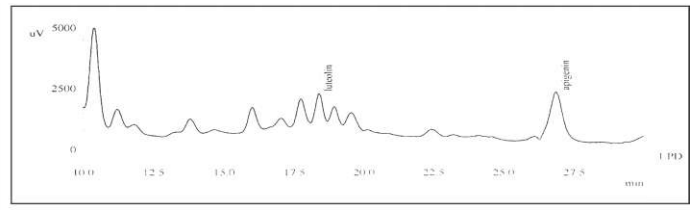
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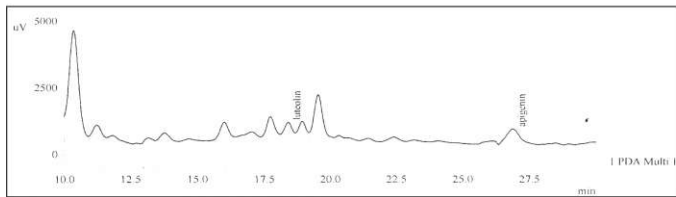
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2	75	« »	10		0,0140±0,0011
3	40	« »	550810		0,0113±0,0011
4	40	« »	640910		0,0114±0,0010
5	- 1,5	« »	281010		0,0087±0,0008
6	- 1,5	« »	231110		0,0086±0,0005



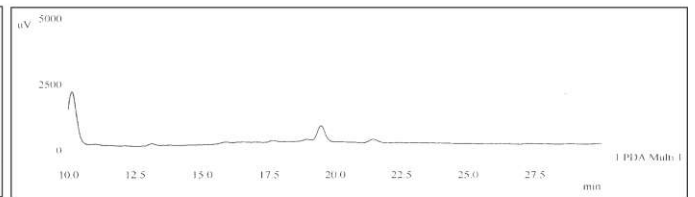
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A.V. Gudzenko

RESEARCH OF DRUGS AND PLANT MIXTURES OF FLOWERS OF MATRICARIA RECUTITA L.

Key words: Matricaria recutita L. flowers, apigenin, luteolin, multicomponent plant composition, HPLC

The procedure of the HPLC analysis of apigenin and luteolin in Matricaria recutita L. flowers is offered. 6 series of products of Matricaria recutita L. flowers from different manufacturers were analyzed with use of the developed procedure. It was determined that according to the presence and content of apigenin and luteolin Matricaria recutita L. flowers could be standardized in mixtures of plant raw materials with the following: Crataegus sanguinea Pall. fruits, Urtica dioica L. leaves, Polygonum aviculare L. herbs, Cichorium intybus L. roots, Quercus robur L. cortex, Calendula officinalis L. flowers, Rosa cinnamomea L. fruits, Taraxacum officinalis Web. roots, Hypericum perforatum L. herbs and Linum usitatissimum seeds.

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