THE DETERMINATION OF PRESENCE OF RUTIN AND QUERCETIN IN LEAVES OF SCHISANDRA CHINENSIS

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Research of leaves of Schisandra chinensis is topically for expansion of source of raw materials of medicinal degister, which contains adaptogens and optimizations of phytochemicals studies of this class of connections.

The search of the optimal system for realization of thin-layer chromatogram for Schisandra chinensis became aim of this work. Research object is tinctures of leaves, seeds and garden-stuffs of Schisandra chinensis. For setting the thin-layer chromatogram the systems of solvents of butanol - acetic acid – water (4:1:2) were used, 15% CH3COOH and ethylacetate – formic acid – water (88:6:6); chromatographics plates «Silufol» number 366, 254 and «ПТСХ – АФ – А – УФ»; revealing reagents FeCl2, 3% solute AlCl3 and saturated spirit solution FeSO4. Data in visible light and OOH - light fixed with the camera Nikon Coolpix 16.0 megapixels. Realiztion of thin-layer chromatogram showed that the plates «ПТСХ – АФ – А – УФ» and number 366 have the best division in the system BAW (4:1:2) and ethylacetate – formic acid – water (88:6:6). Then, the system BAW (4:1:2) were choosen for the search of phenic grounds, rutin and quercetin in a tincture from leaves of Schisandra chinensis. The biggest division was given by a chromatographic plate «ПТСХ – АФ – А – УФ». More clean and exact spots in OOH-light were educed on a plate «Silufol» number 366. Revealing reagents in this case were solutions of 3% AlCl3 and saturated spirit rasters FeSO4. 3% solute AlCl3 became the best revealing reagent, that in turn, in interaction with phenic grounds gave colors in OOH-light from brightly-green to lemon. But plates under the effect of this revealing reagent were subject to corrosion and did not save the primordial kind. Same with his action appeared the saturated spirit solute FeSO4. In interaction with phenic grounds it colored them in dark tones.

As the result of handled studie it is possible the pevelopment of identification from leaves of Schisandra chinensis in relation to chromatographic behavior of rutin and quercetin.