

fit kaempferol, isorhamnetin. Approximately at the zone level of hyperoside there was a brown zone. Closer to the finish line we observed an area of orange-yellow colour which may be due to the presence of quercetin in *Sophora japonica* flowers.

Performed chromatographic analysis was characterized by a high quality of the obtained chromatograms, a clear distribution of substances and reproducibility.

Conclusions

Thus, in the flowers of *Sophora japonica* flavonoid substances of nature with reliable determinations of the contents of rutin and hyperoside were identified. Determination was performed using standard samples.

This TLC method, which is presented in the EPh 8.3 Monograph “*Sophora* Flower”, can be proposed for the introduction in the domestic regulatory documentation in the form of monographs of the State Pharmacopoeia of Ukraine “*Sophora* Flower”. Conditions of the chromatographic analysis are optimal for their application in the analysis of *Sophora japonica*, represented in Ukraine.

In favour of this technique it should also be noted that, in the development of monographs of the State Pharmacopoeia of Ukraine on medicinal herbs, it primarily deals with the qualitative and quantitative analysis techniques presented in the EPh, due to the harmonization of the State Pharmacopoeia of Ukraine with the EPh and the desire to fit modern quality requirements pertaining to medicinal plants.

Conflict of interest: none.

Reference

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