## PHYTOCHEMICAL RESEARCH OF VERONICA TEUCRIUM L. HERB

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**Introduction**. The informal spesies – *Veronica teucrium* L. belongs to family *Plantaginaceae* Juss. and have the significant raw herbal drug base in Ukraine. The chemical composition of *V. teucrium* L. is not completely studied, it is known that herb contains carbohydrates, steroids, iridoids (aukubin, catalpol), steroid saponins, phenolcarboxylic acids, tannins, coumarins, flavonoids (luteolin, apigenin and their glycosides), choline, vitamine C. In folk medicine infusion and tincture from herb used as sedative, expectorant, anti-inflammatory, anti-bacterial, antispasmodic, hemostatic, analgesic, diaphoretic, diuretic and choleretic remedy. The recent herb had used topically for chronic purulent skin diseases and as wound healing remedy. In experiment a cytotoxic, an antibacterial, an immunomodulating and antioxidant, a reducing and prebiotic activities studied of different extracts of this species.

**The aim of the study** was preliminary phytochemical screening of *V. teucrium* L. herb.

**Materials and methods.** The object of study was the herb of *V. teucrium* L., that have been harvested in the flowering stage (May – July) in Ukraine, Kharkiv region, in 2015. The recent herb has the bitter taste and a character smell, which are disappeared during drying. The research was conducted by used thin-layer chromatography (TLC), as well as with the use of qualitative reactions. Extract from *V. teucrium* L. obtained by ethanol 70% (exstract A) and 50% (exstract B) have used for TLC on «Sorbfil», the solvent system: ethylacetate – formic acid – water (10:2:3), single division at the temperature 20-22 °C. Detection was performed in filtrated UV-light (354 nm). The compounds were identified by features fluorescence in UV-light and coloration with chromogenic reagents (ammonia vapor, 10% spirituous solution of sodium hydroxide, 5% solution of iron (III) chloride) and by the value of  $R_f$ .

**The results and discussion.** Previous studies (qualitative reactions) revealed the presence of such groups of biologically active substances: flavonoids, saponins, tannins of condensed group, iridoids and coumarins. In the result of the chromatographic study of the *V. teucrium* L. herb extract A had been found 8 compounds, in exstract B – 8 compounds. According to the results a value of R<sub>f</sub> and features coloration of spots before and after reaction with chromogenic reagents in daylight, and fluorescence in UV-light in exstract A: 4 compounds belonging to flavonoids, 5 compounds – to hydrocynnamic acids, in exstract B – 4 compounds belonging to flavonoids, 5 compounds – to hydrocynnamic acids.

**Conclusions.** The results of our study shown, that the further in-depth study of obtained extracts from *V. teucrium* L. can be considered promising.