



ANALYSIS OF QUALITY INDICATORS OF LEAVES OF LABLAB PURPUREUS L. SWEET. AND PROSPECTS FOR USE IN INDUSTRY AND MEDICINE

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Introduction: currently, there is a significant increase in scientific research aimed at studying traditionally considered ornamental and food plants as medicinal plants, as it is necessary to expand the range of medicinal plant raw materials presented on the pharmaceutical market of the Russian Federation.



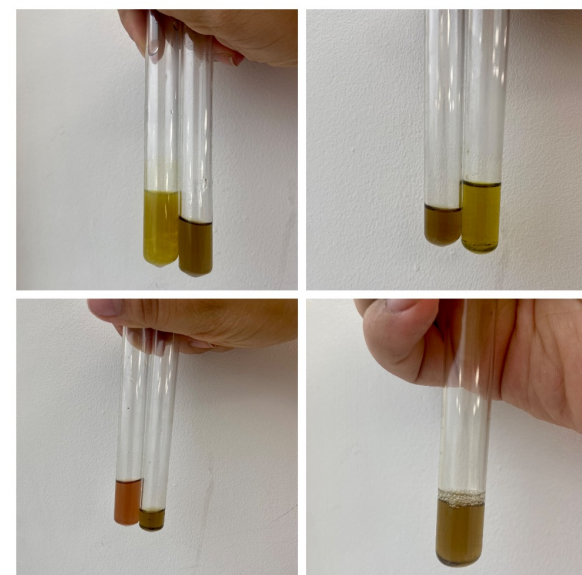
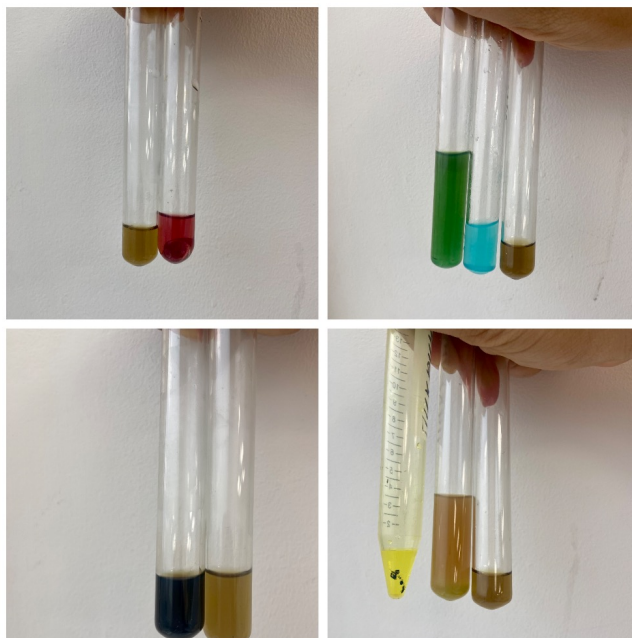
THE OBJECT OF THE STUDY

The object of our research was the leaves of lablab purpureus L. Sweet. collected in the Orekhovo-Zuevsky district of the Moscow region

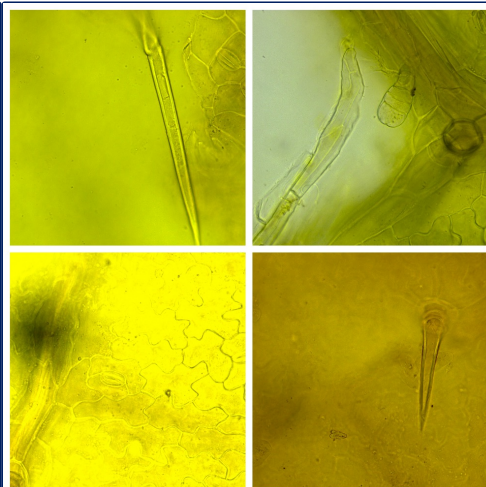


Materials and methods.

The leaves of Lablab purpureus were collected during the flowering period in the Orekhovo-Zuevsky district of the Moscow region and dried in accordance with the current state pharmacopoeia. The determination of macro- and microdiagnostic characteristics of Lablab purpureus leaves was carried out. An aqueous extract was obtained from the dried raw material, in which the content of biologically active substances was determined. The analysis of these indicators was carried out in accordance with the requirements of general pharmacopoeial monographs.



Results. Lablab leaves are characterized by a trifoliate leaf structure, an ovoid shape of the leaf blade with a wedge-shaped base and a spinous apex. The edge of the leaf blade is entire. The leaf venation is pinnate. There is a petiole with a ribbed surface and with stipules. The color of the leaves is from yellowish-green to swamp green, the smell is weak, specific, the taste is bitter.



The stomata are predominantly located on the underside of the leaf blade and have a paracytic structure. Trichomes were found: simple unicellular and capitate hairs with a 4-cell stalk and 2-cell head, some of them confined to leaf veins. Saponins, tannins, flavonoids, terpenes, alkaloids, coumarins, amino acids, and phenols were found in the aqueous extract.

Conclusion. During the study, the authors established the prospects of using lablab leaves as medicinal plant raw materials, which is due to the qualitative composition of biologically active substances.