

THE PHARMACOGNOSTIC AND MICROBIOLOGICAL ANALYSIS OF RUBUS IDAEUS LEAVES

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Introduction. Everyone knows the beneficial properties of raspberry. It is an indispensable source of vitamins. At this time, the healing properties of its fruits are sufficiently studied, but now we need to pay attention to its leaves as not less significant useful substances.

Today *Rubus idaeus* leaves are a promising source of a large amount of useful substances for the medicinal preparations manufacture, fermented tea and infusions., *Rubus idaeus* is a popular plant and grows in almost every front garden in Ukraine.

The **aim** of our work is to identify useful and therapeutic properties of *Rubus idaeus* leaves by the **pharmacognostic** and microbiological analysis.

Results and discussion. *Rubus idaeus* leaves are alternate, lower leaves are pinnate, with 5-7 leaflets on petioles, upper leaves are trifoliate with broad firmly attached to the petiole stipules, the upper side is darker than the bottom, where it is pinnose. *Rubus idaeus* leaves have a wealth of chemical composition include salicylic acid, flavonoids, coumarins, ascorbic acid, tannins, polysaccharides.

Rubus idaeus is a perennial branched shrub. It is used in popular medicine and traditional medicine. It is gentle and safe drug, its leaves are commonly used for hemorrhoids, colds, as an antipyretic and diaphoretic drug. Flavonoids as a part of the leaf exhibit hemostatic properties. *Rubus idaeus* leaves have strengthens and immunostimulatory effects., Raspberry tea is traditionally used as a female tonic to relieve menstrual pain. The vitamin tea is especially popular.

Raspberry leaves are harvested during its flowering (May - June), because the maximum number of stored nutrients are in the leaves in this period.

The only green leaves with no signs of disease and injury are suitable to collect. When collecting raw materials it is not recommended to break and trample down shrubs, especially its annual shoots.

Conclusions. In the research process we identified pharmacological and microbiological properties of plant material, as well as aqueous and alcoholic extracts made from *Rubus idaeus* such as:

- quality parameters - the identity, purity, goodness;
- macro- and microscopic properties;
- a numerical and quantitative of the active ingredients markers;
- microbiological purity;
- antimicrobial activity.