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## WIDE GROWTH OF ALOE (ALOE VERA) IN OUR COUNTRY AND PHASED SUPPLY OF INDUSTRIAL ENTERPRISES WITH OF RAW MATERIALS

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### ABSTRACT

The article deals with the cultivation and proration of Aloe (Aloe Vera) in special greenhouses in our country by various methods, as well as the provision of industrial enterprises with quality raw materials.

**Key words:** Aloe, Barbadensis Miller, Sabur, nutrient medium, agrotechnical measures, correct propagation method, planting methods.

**INTRODUCTION.** Aloe (aloe vera) is an evergreen, elegant and beautiful plant. Considering Africa as its homeland, several adaptations to drought have appeared (in particular, the adaptation based on low evaporation of water to the thorniness of the leaves). There are 180 species widely distributed in tropical and

subtropical regions, it belongs to Liliaceae family, its life forms are trees and perennial herbs. It has been cultivated in our country for several centuries as an ornamental and medicinal plant. The leaves are green-gray, fat or small, smooth, smooth, pointed, covered with a waxy coating, which protects the plant from

moisture evaporation. Aloe rarely blooms, it blooms every year in its homeland, unlike when it grows in a home environment. The flowers are single, up to 4 cm long, light-red in color, located in spike-like inflorescences on a 1-m-high dense conical body, similar to the flowers of *zubtutum*. The fruit is almost cylindrical. The plant gives a lot of seeds, the color is gray-black.

Aloe plant is considered a heat-loving, drought-resistant plant, and it is adapted to grow in rocky, dry, sandy, black soils, taking into account that its origin is the coasts of South Africa and the islands located in the east of Africa. Currently, many plants are being introduced in other countries due to the similar climate conditions of many countries. Through this, many plants are being domesticated and new varieties are being created, including Aloe Vera plant. Aloe is grown as a medicinal plant in plantations in the Caucasus, Crimea and Central Asia. Large

plantations of world importance are located in Central America.

## **Chemical composition and uses of aloe.**

Aloe leaves and juice contain vitamins, enzymes, phytoncides, resin substances, essential oils, as well as anthraglycosides (aloin, nataloin, rubarberon, homonataloin, emodin). Macronutrients include calcium (79.1 mg/g), barium (14.9 µg/g), selenium (11.9 µg/g) and strontium (17.64 µg/g), but especially a lot of lithium (162 µg/g) and chalk (94 µg/g).

Lower and middle leaves of aloe up to 15 cm long are used for medicinal purposes. It is cut gently from the base so as not to damage the leaves. Aloe juice is extracted from its leaves. Condensed juice called *sabur* is used as medicine.

## **Healing properties of aloe vera.**

Choleretic, increases the secretion of digestive glands, improves digestion and appetite, is used as anti-inflammatory, anti-burn,

antibacterial against staphylococci, streptococci, diphtheria, typhoid and dysentery bacilli.

Aloe juice and extract are widely used in the treatment of gastrointestinal diseases, for example: gastritis and gastric and duodenal ulcers, constipation, etc. Also, aloe is used for bronchial asthma, nervous disorders, insomnia. In addition, the plant has been widely used to increase immunity after infectious diseases and other debilitating diseases and intoxications.

### **Aloe vera preparations.**

To increase appetite and improve digestion, it is necessary to take an infusion made on the basis of aloe:

- 150 g of aloe juice;
- 250 g of honey (in liquid form);
- 350 g of red wine;

The composition should be kept in a dark place for 5 days. 1 tablespoon before meals 3 times a day.

For the treatment of pulmonary tuberculosis:

- 100 g of butter;
- 15 g of aloe juice;
- 100 g of honey;
- 100 g of cocoa powder;

The composition should be thoroughly mixed. 1 tablespoon with warm milk should be consumed no more than three times a day.

To stop a runny nose:

Two drops of fresh aloe juice should be dripped into each nostril. The course of treatment does not exceed one week.

In order to treat diseases of the digestive organs:

To do this, rinse the throat with water diluted with aloe juice (1: 1) 3-4 times a day. After the procedure, you should add aloe juice and 1 tablespoon of honey to boiled milk and eat it.

In case of stomatitis, gingivitis or other inflammation of the oral mucosa, it is treated faster by applying fresh aloe vera pulp to the affected area. If the inflammation is

strong, you should rinse your mouth with herbal juice. For this, the leaves are crushed through a meat grinder or in a blender. The gruel is filtered through a sieve and gently rinsed with liquid. You don't have to swallow it.

To speed up the wound healing process:

In the treatment of wounds, an ointment made from it mainly helps, it is applied to the damaged area and fixed with a bandage.

- 1/2 cup liquid honey;
- 1/2 cup of aloe juice;
- 200 ml of alcohol;

Mix well. Store the product in the refrigerator.

Due to its unique biochemical composition, aloe has a strong regenerative effect, so it is widely used in various skin injuries in nature. Apply an aloe compress to the cut or chafing area for faster healing. The pulp of the phyto-raw material is finely ground (it can be softened with a fork) and placed on a clean gauze applied to the wound. Keep it for 30-40 minutes, then remove the residue

and do not wash it for another few hours.

Effective for the treatment and prevention of chronic colitis:

- 50 g of maple leaves;
- 50 g of twisted aloe leaves;
- 100 ml of hot water;

We can make a tincture by putting the leaves in a jar with boiling water, after 20 minutes you can pass the tincture through a filter and consume it. Drink 1 tablespoon of the drug 3 times a day. The course of treatment is 3 weeks, after which you need to stop treatment for a month.

Aloe medicinal products include syrups, ointments, extracts, and intramuscular or subcutaneous injections.

**Summary.** Aloe is a well-known plant. It contains a lot of nutrients. The plant can be used to treat the symptoms of various diseases. Before using Aloe Vera, everyone should know the medicinal properties and contraindications for themselves in order to avoid health

problems during treatment. The use of aloe for the treatment of diseases provides highly effective therapy. Means obtained from this plant allow you to treat gynecological diseases, eliminate eye diseases, and also fight colds. In diabetes, the use of medicines from this plant has a strong healing effect and allows to eliminate the disease that has arisen.

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