# PANGLUIN - effective help for diabetes

- Healing and prophylactic preparations
- Panguin

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## Description

### Help for diabetes

Natural and effective supplement for diabetes type I and II. Improves performance and stability for load beta cells of the pancreas. Prevents the development of diabetes characteristics of vascular system. It has a moderate hypoglycemic effect.

## Directions

Adults and children over 14 years old: 1 teaspoon (5.25 g) 1 time a day dring a meal. Course duration 1 month. Possible to repeat a course 3-4 times a year. Shake well before use.

## Ingredients

Water, fructose, concentrated rose juice, food additive "formula of beauty" (extracts from Gotu Kola and wolfberry), extracts of: rose, blueberry, yarrow, licorice, St. John's wort, calendula, nettle, raspberry leaf, sodium benzoate, potassium sorbate.

Recommended as a source of glycyrrhizic acid.

- 1 teaspoon (5.2 g) of a supplement contains at least:
  - glycyrrhizic acid - 2.4 mg, which is 24% *

* From adequate daily requirement

## Recommended application:

- for lipid and carbohydrate metabolism,
- for impaired glucose tolerance,
- Diabetes type I and II,
- prevention of diabetic angiopathy vessels of the legs, brain and retina,
- for coagulation disorders,
- fragility of the capillaries.

### Main components

#### Licorice

Licorice root (rhizomes and roots) contains glycosides, sucrose, flavonoids, essential oil, vitamin C, yellow pigment, minerals, pectin, and others. From the dried roots and shoots of licorice is prepared expectorants (e.g., breast elixir). Licorice root is part of the diuretic tea; it is also used for the preparation of pellets and improve the taste of the drug. From the root is prepared drugs used in gastritis and gastric ulcer and 12 duodenal ulcer. Licorice is known for its enveloping, expectorant and mild laxative effect. Expectorants properties associated with its content in the roots of glycyrrhizin which amplifies the secretory function of the upper respiratory tract and improves mucociliary activity in the trachea and bronchi. The saponins contained in the plant, irritate the mucous membranes of not only the respiratory tract, but also in other organs, thus increasing the secretion of the glands, so the composition of licorice include expectorants, diuretics and laxatives. Because of licorice flavonoid compounds preparations spasmylytic effect on the smooth muscle of the bronchi. The licorice contains a substance similar in structure to how, and by the action of steroid hormones that are produced by the cortical layer of the adrenal glands, and have very strong anti-inflammatory properties. Because licorice identified a number of biologically active substances that reduce cholesterol in the blood and promotes the disappearance of cholesterol plaques in blood vessels. In the form of decoction, tincture, extract or powder rhizome with the roots of licorice is used as an expectorant in diseases of the lungs, accompanied by cough; as anti-inflammatory and antispasmodic giperatsidnom gastritis, gastric ulcer and duodenal ulcer; as a laxative and regulating water-salt metabolism in diabetes; composed of mixtures of drugs - as a diuretic and laxative.

#### Gotu kola

The primary means to stimulate and strengthen the nerve and brain cells. It increases intelligence, improves memory, slows down the aging process and gives strength in old age. The rejuvenating effect of gotu kola is related to the presence in its structure of biopolymers, potent stimulators of tissue regeneration. Furthermore, gotu kola strengthens the immune and endocrine systems. At the same time, gotu kola - strong blood-purifying agent with a specific action for chronic skin diseases, including leprosy and syphilis, eczema and psoriasis. Remove various skin rashes. Among women's diseases eliminates whites and pain in the uterus. Effective for intermittent and recurrent fevers such as malaria.

#### Boxthorn

Contains a large number of active ingredients, polysaccharides, phenolic acids, vitamins (B1, B2, C, E, carotene, riboflavin, nicotine), xanthines, leucine, phytosterols - daukosterin (β-sitosteryl-β-D-glucoside), betaine, detain, fizalin, alkaloids, proteins, taurine, 19 amino acids, minerals and microelements (calcium, magnesium, iron, copper, manganese, zinc, phosphorus).

The concentration of beta-carotene in wolfberry berries than in carrots, and protein is higher than in the royal jelly.

Contained in Dereza elements are excellent natural antioxidants have antibacterial and
antiviral properties, improve blood circulation, strengthen blood vessels, prevent thrombosis, have a beneficial effect on the heart, liver, kidneys and other vital organs, stimulate regeneration and improve potency.

The berries wolfberry improve immunity, reduce the acidity in the blood, prevent the development of malignant tumors, improve mood, relieve fatigue. Besides Boxthorn has a strong antioxidant effect and slows aging.

Numerous studies show that wolfberry fruit to increase the level of education of white blood cells, improve the function of macrophages, phagocytes animals. Boosts production of antibodies in response to an antigen (SRBC) tumor cells, thereby increasing the immune response. Eating berries wolfberry, older people can improve health, increase the oxygen content in the blood. With no side effects, wolfberry extract helps seniors improve sleep, improve health. Also, clinical studies have shown that wolfberry fruit lower cholesterol and increase the content of phospholipids, proteins enrich and strengthen the membrane of cells, promote the growth and regeneration of cells.

**Calendula**

The plant has a strong bactericidal properties against some pathogens, especially staphylococci and streptococci. Calendula is recommended for heart diseases accompanied by arrhythmia, liver and biliary tract, gastric ulcer and duodenal ulcer, pancreatitis, diabetes, gastritis, hypertension, and menopause. In folk medicine, calendula is used for liver and gall bladder, spleen, stomach cramps, stones in the bladder, cough, hypertension, cardiac neurosis, scrofula, rickets.

**St. John's Wort**

St. John's wort preparations relieve spasms of blood vessels, have sosudoukreplayayuschee action, improve venous circulation and blood supply of some internal organs, increase diuresis. In addition, St. John's wort has a strong effect for nervous exhaustion, depression and neurosis. The plant is very popular in traditional medicine. It has long been used as a hemostatic inwardly and anti-inflammatory agent in the treatment of mastitis, anemia, hemorrhoids, jaundice, migraine, hypertension, coughing, stomach and lung diseases, as well as diseases of the liver, kidneys and respiratory system.

**Urtica dioica**

The plant contains vitamins C and K, B2, carotene, pantothenic acid, chlorophyll, iron salts, potassium, calcium, sulfur, sugar, proteins. Nettle strengthens blood vessels, normalizes blood clotting, increases the amount of hemoglobin, platelets and red blood cells, reduces blood sugar, has diuretic, wound healing and restorative effect. Nettle is useful for bleeding, anemia, atherosclerosis, diseases of the kidneys, bladder, liver and gall bladder, hemorrhoids, tuberculosis, metabolic disorders, during the recovery period.

**Milfoil**

This is an excellent hemostatic, antispasmodic, anti-inflammatory, antibacterial, astringent, anti-allergic, choleretic. The leaves and inflorescences contain essential oils. Infusion and liquid extract from the leaves and flower clusters yarrow (and its related species) are used as a styptic, as well as in the so-called delicious tea. Yarrow is very popular in folk medicine. It is used as an internal or as an external agent. Yarrow heals wounds, its infusion is used in
kidney disease, gallstones, hemorrhoids, diseases of the gastrointestinal tract. It will help with dysentery, uterine bleeding and hemorrhoids, to improve appetite and digestion, atherosclerosis, candidiasis (thrush), menstrual irregularities, with heavy menstruation, fibroids and uterine, ovarian inflammation. Assign milfoil bleeding, gastritis, stomach ulcers, diabetes, colitis and enterocolitis, flatulence, diabetes, cholecystitis, lack of appetite, sluggish digestion, varicose disease, inflammation of the urinary tract, bedwetting, gynecological diseases, benign and malignant tumors, tuberculosis, gout, rheumatism.

**Blueberries**

In Russia, blueberries called “rejuvenating berries.” We believe that it rejuvenates the body. Our ancestors knew the healing power of blueberries. Bilberry is a popular folk medicinal plant, especially its berries are dried and fresh, and covered with sugar. The berries and leaves of bilberry found a lot of useful substances.

Blueberries have long been used as a medicament. Due to the high content of tannins, astringent berries and protivoponosnoe action. Fresh berries regulate the digestive system: diarrhea occur during their astringent properties, and constipation caused by intestinal, they have a laxative effect, facilitating bowel movement. Berries are useful for catarrh of the stomach (especially with low acidity) and intestines.

Cranberries - a rich source of so-called anthocyanidins, which are the most powerful of all natural antioxidants. Bilberry extract has proven its ability to increase the amount of the substance dopamine in the body. This compound regulates the most important processes in the brain.

Dopamine helps produce growth hormone (somatropin), which is responsible for cell renewal and rejuvenation of the whole organism. Under the influence of blueberry notes as to improve the throughput of cell membranes and reducing inflammation. Improves the transmission of nerve impulses from the nerve cells to other cells in the body.

In folk medicine blueberries mixed with strawberries used in the treatment of urolithiasis. Leaves and fruits contain substances having insulin-like action and therefore a beneficial effect in diabetes, reduce blood sugar levels. Thick broth of fresh berries and juice are used in folk medicine in the treatment of eczema, skin rashes, festering wounds, burns, and hemorrhoids, to rinse with stomatitis and sore throat.

Long-term methods of fresh berries are also shown in rheumatism, gout and other metabolic diseases. Prolonged consumption of blueberries contributes to the improvement of visual acuity. Blueberries are a good eye fatigue when reading, working with computers, while driving a car at night. It enhances the action of other methods of treatment of diseases of the eye (drops, eye exercises, the use of synthetic drugs), helps to improve the natural defenses of the eye tissue destructive changes of the retina and lens. Due to the high content of flavonoids and phenolic acids, fresh, dried and canned berries are useful in atherosclerosis, hypertension, and other pathological conditions associated with reduced strength of the walls of blood vessels.

**Raspberry leaves**

Leaves raspberries contains substances that have hormone-like effects. In folk medicine, it is used to reduce the prostate. Just raspberries known as an essential component in the treatment of infertility, impotence, and disorders of the nervous system. Raspberries
contain a huge amount of fiber, which is helpful for digestion and bowel cleansing. Due to the high content of fiber in raspberries it is recommended for patients with reduced activity of digestion and constipation. The raspberries contain pectin, which helps rid the body through the intestines various harmful substances, including cholesterol, and radioactive elements, so the raspberry recommend that people working at various factories. Coumarins containing raspberry, improve blood clotting and reduces prothrombin. Coumarins are concentrated in the leaves and branches of dark, ezhevikoobraznyh varieties. Anthocyanins strengthen capillaries and reduce the tendency to sclerosis. Phytosterols reduce the likelihood of developing atherosclerosis. Contained in the composition of raspberry potassium improves the condition of people with heart disease, as well Potassium acts as a diuretic. Raspberries can extract from the land of the compound of iron and accumulate them in the berries and raspberries iron content than many fruits and vegetables. Thus, raspberries becomes useful for people suffering from anemia. The raspberry has iodine, which is beneficial for bronchitis, causing expectoration.

### Form release:

120 ml

### Production

Scientific and Production Center of Revitalization and Health

St. Petersburg University of Bioregulation and Gerontology