

GOGANI COMPANY
Manufacturer of Pharmaceutical
& Biological Machinery
Bioprocess Solution
Bioprocess Consultation

ALOE VERA

(Processing Systems & Machinery)

Aloe vera

About the plant

Aloe barbadensis commonly called aloe vera is an indigenous medicinal herb. It is also known as ghikawar, gwarpatha or ghritakumari. A member of Liliaceae family, it is an evergreen perennial succulent plant, growing up to 1 meter in height. Its green, tightly packed, thick, fleshy leaves have jagged, thorny edges and are radially arranged in two or three circles. Each leaf is 30-50 cm long and 10 cm broad at the base. Bright yellow tubular flowers appear in a spike.



The aloe plant is best known for its healing aloe vera gel. The plant can be processed into two basic products – gel and latex. The gel is the leaf pulp, a thin clear jelly-like substance obtained from the inner portion of the leaf. The aloe latex is a bitter yellow and slightly sticky substance from the pericyclic tubules just beneath the outer skin of the leaves. This is commonly referred to as aloe juice and it also has laxative properties.

Constituents

Aloe vera is an amazing mixture of more than 200 constituents, including polysaccharides (a complex carbohydrate), enzymes, glycoproteins, amino acids, vitamins and minerals. It has 96% water. The gel contains an emollient polysaccharides, Glucomannan and pectic acid. Barbaloin and homonataloin are important metabolites found in the leaves. Purgative properties of aloes are due to the presence of this barbaloin. It also contains C-glycosides and resin. They are anthraquinone-producing plants and the content of anthraquinone is subject to seasonal variation. Anthraquinone such as aloin A and B are responsible for the plant's laxative and healing properties.



Medicinal properties

For over three thousand years, millions of people all over the world have been using aloe as a home remedy. Today it is being used in *Ayurveda*, *Siddha*, and *Homeopathy*. It is also used in Chinese and Arabian medicine. The laxative sap is dried and sold as “resin”. The gel stimulates the immune system and has antibiotic, anti-inflammatory and antiseptic effects. This makes it useful in the treatment of certain skin problems such as eczema and psoriasis. Among other substances, this herbal healer contains several antiseptic agents which make it effective against many internal and external infections. In Ayurvedic medicine, aloe is used internally as a laxative, antihelminthic, hemorrhoid remedy and menstrual regulator. Aloe products for internal use have been also promoted for constipation, coughs, wounds, ulcers, diabetes cancer, head aches, immune-system deficiencies, and many other conditions. The gel provides a protective coat on the affected area caused by wounds or burns.



In the 1930s, aloe vera became renowned for treating radiation burns. Today it is widely used as a soothing, moisturising and healing gel to treat wounds, burns, acne, anal fissures and haemorrhoids. Aloe may also help rheumatic ailments. Its juice is given for stomach ache, purgative, antihelminthic, anemia, piles, wounds and arthritis diseases. Derived directly from the plants leaves, aloe vera is very effective in its natural state. Simply a leaf may be cut off from the plant and the soothing gel can be applied to skinned knees, minor burns, scrapes and small hurts. Many pharmaceutical companies are preparing its different products – juice, paper, aloe vera jelly, jams etc. Many folklore processing are also common.

Cosmetic applications

Since ancient times, women have been using aloe gel to improve or maintain the appearance of their skin and hair. In history, Queen Cleopatra was said to include aloe cream in her beauty regimen. It is claimed that aloe has anti-aging effect. Today it is widely used in herbal cosmetics. This gel acts as an excellent skin moisturiser. Many leading cosmetic companies have launched products for skin and hair containing aloe vera extracts. Aloe vera gel is an active ingredient in hundreds of skin lotion, sun block and cosmetics. It is said to work as a moisturizer, a cleanser, bleach and a rejuvenator. It usually suits all skin types. At the present time, aloe vera based hair oils, cold creams, night creams, sunscreen lotions, hair gels, moisturizer, lipsticks, etc, can be seen on every shop shelves. Since aloe vera is rich in vitamins, minerals and enzymes it is also used as a health supplement beverage. Some companies have produced juices containing aloe vera which can be used as a laxative.



Aloe Vera Drinks

Aloe Vera Drinks contains all of the vitamins, minerals, amino acids again enzymes start monopoly our Aloe Vera Gel, plus the too many benefits of cranberry and apple.

Further their reputation through a abstergent for the urinary tract, cranberries provide a high can't complain of vitamin C. They are again a natural square one of pycnogenol, a powerful antioxidant that is particularly useful prestige how to make aloe vera juice maintaining collagen. Microcosm juice is supreme for its vitamin A and C content, as wholesome as its potassium further pectin.

You can drink Aloe Berry Nectar veil meals or especial. The delicious bite is totally matter-of-course, prepared from a compound of fresh cranberries and candy-coated, mellow apples. Added fructose (a ingenerate fruit sugar) sweetens it just enough to homemade aloe vera drink please both adults and children alike.

Aloe Vera Herbal Tea is a natural blend of leaves, herbs and spices, especially prepared to provide an well-known spice again a well-to-do aroma. Caffeine - free lunch, undeniable has been formulated to liberty you feeling revitalized. Whether you drink present sweltering or george's **aloe vera juice** raise firm iced, Aloe Blossom Herbal Tea has a major league taste further is painless to create.

This international effort combines carefully chosen ingredients from China, Jamaica, Egypt, America further India. Nipping cinnamon, orange peel also cloves impart a scorching cracked flavor, along with allspice and ginger to soothe. Combined shadow aloe blossoms from our own plantations, this despondent calorie, algid tea is a extended compliment to our Forever Lite weight restriction extracting aloe vera juice program.



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