

ORGANIC HERB INC

Latin Name: Adhatoda Vasica •

- **Active Ingredient: vasicine**
- CAS No.: 6159-56-4
- Test method: TLC
- **Specifications: 5:1**

Product Description:

Name :Adhatoda Vasica Extract

Source: Adhatoda Vasica(Malabar nut, adulsa, adhatoda, vasa, or vasaka)

Botanical Name : Adhatoda Vasica(Justicia adhatoda)

Extract part: Leaf

- Composition Ratio :5:1
- Appearance: Brown fine powder
- Country of origin:P.R. China

Source

NATURAL INGREDIENT SOLUTIONS Adhatoda vasica commonly known in English as Malabar nut, is a small evergreen herbaceous bush that native to Asia and has been widely used in Siddha Medicine, Ayurvedic and Unani systems of medicine for over 2000 years. It has flowers are white petals flowers with streaked purple on the lower lip and broad, lance-shaped leaves 10 to 15 centimeters in length and 5 centimeters wide. The leaves become greenish-brown when dried and have a bitter taste.

The plant's range includes Sri Lanka, Nepal, India, Pakistan, Indonesia, Malaysia, and China, as well as Panama where it is thought to have been introduced.

Main bio-active

Adhatoda vasica contains numbers of components that are especially abundant in the leaves of Adhatoda vasica ,such phytochemicals includes alkaloids, tannins, saponins, phenolics and flavonoids. The most important is vasicine, a quinazoline alkaloid available in different parts of the herb currently developed in to the mucolytic drug bromhexine .The vasicine yield of the herbage has been measured as 0.541 to 1.1% by dry weight.

Antiasthmatic and bronchitic activity

According to Journal of Ethnopharmacology it is acknowledged Adhatoda vasica has been used in traditional Indian medicine for the treatment of various diseases and disorders, particularly for the respiratory tract ailments for thousands of years. It is useful in treating bronchitis, tuberculosis and other lung and bronchiole disorders. A decoction of the leaves can be used as an herbal treatment for cough and other symptoms of colds. The soothing action helps irritation in the throat and the expectorant will help loosen phlegm deposits in the airway which makes adhatoda a good remedy for sore throat.

Article on Applied Biochemistry and Biotechnology suggests alkaloids derived from Adhatoda vasica exert its anti-tuberculosis activity by controlling the unique structural features and universal occurrence in Mycobacterium tuberculosis (M. tuberculosis), that is ,catalyses of enzyme β -ketoacyl-acyl-carrier protein synthase III to the initial step of fatty acid biosynthesis (FabH) via a type II fatty acid synthase.

Anti-bacterial activity

There are studies show strong activity of the alkaloid from the Adharoda Vasica leaves methanolic extract against certain bacteria . One research conducted by Indian scientists was published by International Journal of Biomedical and Pharmaceutical Sciences which said Adharoda Vasica showed potent antibacterial activity against Pseudomonas aeruginosa ,Klebsiella pneumoniae,Staphylococcus aureus and Salmonella typhi compared to the standard antibiotic ciprofloxacin .Another study proved the ability of the extract in inhibiting bacterial population in unrelieved water which suggested its use in improving quality of drinking water.

Oxytocic and abortifacient effects

According to The Journal of Ethnopharmacology, several scientific reports on oxytocic and abortifacient effects of vasicine and alkaloid derived from the plant. Adhatoda Vasica can help speed up childbirth and is useful after childbirth. It can also help the uterus go back to its normal size and control postpartum bleeding.

Applications

In Ayurvedic medicine, malabar nut (Adhatoda vasica) has been used for a multitude of disorders including; bronchitis, leprosy, blood disorders, heart troubles, thirst, asthma, fever, vomiting, loss of memory, leucoderma, jaundice, tumors, mouth troubles, sore-eye, fever, and gonorrhea Modern research shows Adharoda Vasica exhibits strong active treating Bronchitis, leprosy. Also has high efficiency in treating Ascaris, Asthma, Respiratory disease, Tuberculosis. Show activity in Bleeding external ,Chest congestion, cold.

Side Effects

Adhatoda is considered safe in recommended usage and dosing. The safety of this herb has not been tested in children and should be avoided, unless directed by a medical professional. Use of this supplement is not recommended during pregnancy (except at birth, and then only under the direction of a medical practitioner.) Care should be exercised when taking this herb with other drugs or supplements that exhibit expectorant or antispasmodic effects.

--Justicia adhatoda Wikipedia,the free encyclopedia;https://en.wikipedia.org/wiki/Justicia_adhatoda

--Kumar, M., Kumar, A., Dandapat, S. and Sinha, M. P. Phytochemical screening and antioxidant potency of Adhatoda vasica and Vitex negundo, The Bioscan; 8(2): 727-730, 2013

--"Facts about for Malabar Nut (Justicia adhatoda)". Encyclopedia of Life. Retrieved 3 January 2013

--Health Benefits of Adhatoda Vasica;http://www.bitterrootrestoration.com/health-care/ health-benefits-of-adhatoda-vasica.html

--Ubonwan P Claesona, Torbjörn Malmforsb, Georg Wikmanc, Jan G Bruhna;"Adhatoda vasica: a critical review of ethnopharmacological and toxicological data";Journal of Ethnopharmacology Volume 72, Issues 1–2, 1 September 2000, Pages 1–20

--Deepak K Jha, Likun Panda, P. Lavanya, Sudha Ramaiah, Anand Anbarasu;"Detection and Confirmation of Alkaloids in Leaves of Justicia adhatoda and Bioinformatics Approach to Elicit Its Anti-tuberculosis Activity";Applied Biochemistry and Biotechnology November 2012, Volume 168, Issue 5, pp 980-990

--Claeson UP, Malmfors T, Wikman G, Bruhn JG;"Adhatoda vasica: a critical review of ethnopharmacological and toxicological data.";The Journal of Ethnopharmacology

NATURAL INGREDIENT SOLUTIONS