

**MEDICINAL USAGE OF LEAVES OF CASSIA FISTULA LINN**

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ABSTRACT

Asparagus racemosus Wipe out 100 mg/kg is known to have severe and strong protection against thyroid function when isolated and controlled test. Our establishment results are supporting, but further subatomic evaluations should elucidate the specific structure behind the counter thyroid development of Asparagus racemosus root.

Amaltas base is tonic, antipyretic, astringent and strong diuretic. They are of remarkable use in joint pain, migraine, chest depression and blood division of the heart. Amaltas root is also important in fever, heart disease, obstructed labor and pitta. It is also used in cardiac problems, pitta, rheumatic conditions, bleeding, wounds, ulcers, and air pockets and other skin problems. Root concentrate reduces glucose level by up to 30%.

INTRODUCTION

The flowers and examples of Amaltas are used as a laxative, antipyretic, choleric and astringent. Units half ethanolic concentrate attenuates antifertility development in female pale clean isolated rodents. Warm units are applied to the swelling on the neck, thinking about the cold. Crush is given in liver problem.

Amaltas is used as a pain reliever acting as an antipyretic, a reaction to stomach upsets and various fevers.

Bloom's concentrate controls as far as possible and animates the uterine border in yellow-cleaned individual rodents. Amaltas standard things are used in the treatment of diabetes. It is antipyretic, abortifacient, demulcent, reduces body malaise and force in chest rumbling, throat heaviness, liver quarrels and diseases of the eye and grasp. The pound of common cheese around the seeds is a delicate diuretic. Indications for decoction (units) of Cassia fistula Linn. There are impetigo and diphtheria.

Amaltas seeds are emetic, used in obstruction and have sedative properties. The seeds are somewhat sweet and have diuretic, carminative, coolant, removal of desire and antipyretic growths. Its seeds are important in jaundice, pitta dosha, skin disorders and sore throat. Its dried seeds produce stray hypoglycaemic growth. Amaltas seeds powder is used in amebiasis. Common cheese pound is used for obstruction, colic and urinary issues

Bark has tonic and antidysenteric properties, it is also used for skin complaints, bark powder or decoction is given in torticollis, jaundice, syphilis and heart difficulties. The liquid concentration of the root bark facilitates the correction. The bark of the stem is used against amenorrhoea, mastitis and inflammation of the chest. This is amazingly demonstrated in the ring worm.

The standard prescription has really taken a lot of thought because the decision is skepticism for therapy and lifestyle-related confounding. Thyroid hormonal issues are related to the increase in the blood apparently sent out by the thyroid organ, validity of thyroid hormonal imbalance is a part of common problems like diabetes and high blood pressure and disturbs the BMR of the body.

Some cases of thyroid problems coordinate hyperthyroidism and the other half coordinate hypothyroidism. No matter how much each small step toward getting closer to drugs is gaining importance for their sensible and safe nature, the understandable assessments by different people of plants to help thyroid issues are next to nothing. Originally of such a large number of reports, only a single aroid was replaced by a different plant. Next, we attempted to isolate a plant that could deal with the levels of both thyroid-producing substances.

Auxiliary flavors are moving from the fringes to standard use, with a more radical number of people looking for solutions and methods of achievement free of the alternative effects achieved



by synthetically employed substances. India officially recognizes over 3000 plants for their sustainable value. It is generally taken into account that there are more than 6000 plants being used in standard, society and customary prescriptions in India. The meaning of this article is to give a complete report on the phytochemical and pharmacological fragments of *Cassia fistula*.

Over the years, researchers have highlighted the need to look at and support plant-inspired substances for the treatment of various diseases. Remarkably it has been surveyed that more than 25% of modern drugs are apparently or thought to be derived from plants. It justifies to note that Indian strong plants are considered to be a great source of pharmacological guidelines and mixtures which are commonly used as home remedies against various issues.

Since the mid-1990s, the use of woodlands products for drug dealing is emerging as the basic compensation passing resource to various parties, thus, an expanding consideration for their extremely wide value. Indian standard medicine relies on a variety of systems including Ayurveda, Siddha, Unani and Homeopathy. The evaluation of these drugs is essentially chosen phytochemical, pharmacological and integrative modalities involving various instrumental methods such as chromatography, microscopy and others. With the emergence of general interest in adopting and focusing on specific systems considering different clinical benefit structures and exploiting their proven range, the evaluation of standard prescription enriched ACT is fundamental. *Cassia fistula* is one such plant.

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Cassia fistula Linn. (*Cassia*) family *Caesalpinaceae* regularly known as *Amulthus* and in English undeniably called "Indian Laburnum", all things used in Ayurvedic plan to remedy various ailments. This deciduous and mixed storm forest area, through the more remarkable parts of India, rising up to 1300 m in the outer Himalayas, is fully utilized in India's standard strengthening process, known to be hepatoprotective, calming, antitussive, Other than antifungals and checks are used.

It is a deciduous tree with green weak bark, compound leaves, the leaves each 5–12 cm long. A semi-wild tree known for its extraordinary profusion of yellow flowers, also used in standard medicine for certain symptoms. A trademark cheese is the case made from the barrel and the seeds separate into luscious, sweet pounds that move past sections. The long cases that are green when raw become dull when formed after sprouting.

A tree up to 6-9 m high; trunk straight; The bark is smooth and yellowish weak when inflamed, hides unpleasant and dull roughness when old; Branches spreading, thin. leaves 23–40 cm long; prominent rachis rhombic; Stipules minute, direct twisted, rampant, pubescent. Flyers 4–8 sets, endorsement or confirmation deferred, sessile, 5–12.5 x 3.8–9.5 cm, brilliant green and glabrous above, light and glabrously pubescent when energetic, midrib broadly pubescent underside, base cuneate ; Under the major veins notable, close, direct; Stipe 6–10 mm long, pubescent or glabrous.

Regular cheese cases are 40–70 cm long and 20–27 mm across, straight or strongly curved, briefly smooth but finely striated, with fine openings visible as streaks. There is a small point in the changed external feel that means the location of the style. The dorsal margin appears as a single vascular strand and the ventral margin joins as two permanently applied strands. Original inside case, buff cover, 0.5 cm. Each capsule contains one seed which is flat, oval, ruddy brown in color with a characteristically checkered wrap. The seed has a white colored endosperm in which the yellow colored protoplasm is embedded.

Aragvadha is a moderate surveyed tree. It achieves a degree of around 8 to 15 m when mature. It gives up are to 5.1 to 12.2 cm long, standard pinnate with a 4-8 strategies of freebees, coriaceous when new and paper on drying. Midrib is thickly pubescent under.



A trademark thing is tube formed case and seeds different in dull, sweet crush separated by move past portions. The long units which are green, when unripe, become weak on making after sprouts shed 6. The pound is frail brown in gathering, feeble, sweet and glue, aroma brand name, and genuinely irksome. The unit creates different move past septa between the seeds. When new the βpods contain a weak squash which on drying adheres to the septa.

Blooms of the cassia fistula are light yellow in assortment ordinarily in essentially sessile headings in the axils of the leaves with five petals, upper one is especially crushed. Sprouts impressive yellow in the terminal, hanging racemes, 30-60 cm long; calyx extended, cruel, pubescent; corolla with five subequal, obovate, immediately battered petals, to 3.5 cm across; stamens 10, upper three with erect strands to 0.7 cm long and with basified anthers.

C. fistula isolates have been credited to their essential and discretionary metabolite creation. Head metabolite appraisal has essentially been established on the seed, dust, ordinary thing, leaf and unit. The piece of protein 12 %, carb 11.75%, lipid 12% and free amino harming 1.42%, independently.

The result of Cassia fistula was a good wellspring of Fe and Mn, and their obsessions were essentially higher than those in apple, apricot, peach, pear and Orange moreover uncovered the presence of aspartic grievous, glutamic horrible and lysine contained 15.3, 13.0 and 7.8%, unreservedly, of the total amino acids in the squash.

Concrete (25.8%) was restricted from the seeds by extraction with hot water³⁰. The seeds included comparable amino acids with 16.6, 19.5 and 6.6%, uninhibitedly while, isolated 5-Nonatetracontanone, 2-hentriacontanone, triacontane, 16 hentriacontane and beta-sitosterol from the hexane part of the ordinary things.

Three lectins from the Cassia fistula seeds have antibacterial activities against various pathogenic second living animals. The antibacterial activity of the liquid and alcoholic concentrate of stem bark of Cassia fistula was astoundingly reasonable.

The concentrate of leaves of Cassia fistula was proposed for lightening influences. The quieting and cell support activities of the Cassia fistula bark were viewed as major.

The methanol concentrate of the seed Cassia fistula was sought after for different pharmacological practices in mice. A depressant movement of ME was other than clear from the social assessments on mice.

Illness is the irksome issue to treat the injury. Against disease hindrance by the pathogenic microorganism renders drug inappropriate. The alcohol concentrate of C. fistula leaves was disheartened down for Antibacterial effect against Staphylococcus aureus and Pseudomonas aeruginosa. Cassia fistula treated rodents showed, better turned end, further made tissue recuperation at the injury site, and supporting histopathological limits partner with wound fixing, and in this way confirming the propriety of Cassia fistula in the treatment of the tainted injury.

The leaves, stem bark and ordinary thing crush showed antibacterial development. The ordinary thing pound was the most solid in such manner. The improvement might be a result of the presence of flavonoids. The dissolvable ether concentrate of the standard thing pound have the absolute most stunning exhibit and when isolated from chloramphenicol, the headway of 1 gm of this concentrate was seen as more than that seen with 100-g of chloramphenicol.

The effects of methanolic discard (ME) of Cassia fistula seed on the movement of Ehrlich ascites carcinoma (EAC) and on the inevitable destiny of headway bearing mice were pondered. ME therapy showed an extension of future, and a decrease in the improvement volume and conceivable disorder cell review for the EAC improvement has. Cytological assessments have uncovered a diminishing in the mitotic new development and the presence of film blebbing and intracytoplasmic vacuoles in the treated hurtful improvement cells. Improvement in quite far



following ME treatment, like hemoglobin content, red platelet count and bone marrow cell count of the progression bearing mice have in this manner been noticed. The inescapable aftereffects of the persistent outline recommend that ME of *C. fistula* seed has an antitumor new development. The antidiabetic limit of the firm alcoholic concentrate and its ethyl acidic damaging confirmation part of the bark of *Cassia fistula* was amassed in alloxan activated diabetic rodents. The ethyl acidic horrendous confirmation part showed a tremendous diminishing in blood glucose levels than alcoholic concentrate. The activity was seen concerning all points and purposes muddled with standard arrangement glibenclamide. The strategy of hypoglycemic and antidiabetic advancement of hydroalcoholic concentrate of *Cassia fistula* Linn in rodents was tended to. The ethanolic concentrate of *Cassia fistula* Linn Stem bark was investigated for their antihyperglycemic activity.

DISCUSSION

Liquid concentrate of *Cassia fistula* (Linn.) sprouts was assessed for its cell support influence in alloxan affected diabetic rodents. The seeds of *Cassia fistula* were analyzed for their hypoglycemic development. They were found to have awandered hypoglycemic progression on standard pale cleaned individual rodents regardless not on alloxan made diabetic pale cleaned individual rodents.

Neighborhood remedies and their plans have been totally used all over, for the many years in making and made countries owing to its generally expected start and lesser optional impacts or disappointment with the deferred results of made drugs. One of the characteristics of oriental standard medicine approaches is that the close by solutions by and large, either presenting as single flavors or as groupings of flavors in composite formulae. The normal methodologies contain strong plants, minerals, customary matter, etc. Conventional prescriptions recollect for a general sense those standard arrangements which essentially use recuperating plant plans for treatment. These arrangements are conveyed utilizing reachable resources of raw parts by eco-obliging cycles and will give monetary flourishing to the greater part developing these average substances.

Obliging plants continue to give tremendous recovering arranged specialists, both in present day drug and in standard structures of cure. Accepted is being pivoted around the assessment of sensibility of plant based drugs used in the standard cure since they are economy, have a little discretionary effects and according to W.H.O, around 80% of the complete people rely essentially on customary fixes.

WHO has truly portrayed standard prescription (counting customary medications) as containing obliging practices that have been in presence, a huge piece of the best an open door for a really long time, before the development and spread of present day medicine and are right now being utilized today. Standard prescriptions are being used by around 80% of the firm people fundamentally in the arising countries for fundamental clinical idea. They have stood the starter of energy for their prospering, plentifulness, social worth and lesser spontaneous impacts.

Cassia fistula was shown a popular standard steady plant has different typical activities and pharmacological cutoff including lessening blood glucose and serum lipids. The body weight gain of different get-togethers of rodents showed that hyperlipidemic pack acquired higher body weight on account of high fat eating routine (cholesterol) used to prompt hyperlipidemia in the rodents that extended energy confirmation and energy collecting. When hyperlipidemic rodents were given hydroalcoholic leaves concentrate of *Cassia fistula* at measurements of 100 and 200 mg/kg b. wt then their body weight gain diminished. The decreasing in body weight gain was a prompt outcome of breaking point of dynamic constituents in hydroalcoholic leaves concentrate



of Cassia fistula that diminished the food consumption of rats. Cholesterol is worked with in all animal tissue.

It is vital to associate with its part in the distinction in layer structures pondering its rigid planar course of action. It other than as an emissary for the mix of steroid designed materials. The unavoidable consequences of complete cholesterol levels of different parties of rodents depicted that TC and TG level had normally crucial worth. Obviously, headway of Cassia fistula at assessments of 100 and 200 mg/kg b. wt at different levels cut down the TC and TG levels.

CONCLUSION

Hydroalcoholic leaves concentrate of Cassia fistula contained cell support that basically brought hard and fast cholesterol level due down to its ability to foster the bile unpleasant conveyance by keeping reabsorption from insignificant gastrointestinal structure through obstacle of micelle approach of bile harming. The expansion in appearance of bile acid and cholesterol supports cholesterol 7 α -hydroxylase that works on the distinction in liver cholesterol to bile harming subsequently achieving cholesterol decrease.

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