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PHARMACOGNOSY OF SENNA

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ABSTRACT

The senna is a medicinal plants which is a a larger genus of flowering plant in the legume family (Fabaceae). The senna plant is also known as Indian senna, Sennal alexandrina, Diablo Diallobus, Adipera Rat. And Earleacassia Britton etc. It produces very pretty flower the flower of senna is yellow colour. The senna is contain various types of chemical these chemical constituents are play the vital role in medicinal field. The senna is produces purgative, Catherine, laxative property. It is also used in chronic constipation, irritable bowel syndrome, rectal surgery, hemorrhoids, weight loss and reduction of water absorption.

KYEWORDS

Biological source, Geographical source, Botanical classification, Organoleptic property, Chemical constituents, Pharmaceutical uses

INTRODUCTION



Senna alexandrina

Senna is the belong to the a larger family of Fabaceae. It is the largest genus flowering plant. The multiple genus of senna is indigenous throughout the equatorial, with a small number of specie in mild areas. The approximate number of senna specie up to 260[1] to 350 [2].

The Senna alexandrina is the type of specie in this Genus. Above the 50 species of senna is known in cultivation. [3] It is contains shrub, herbs and trees. Five sepals and usually five yellow petals is present in senna flowers. The pods of senna contains several seeds.[4]

SYNONYMS [5]

Alexandrian senna, Tinnevelly senna, Folia senna.

FAMILY

Fabaceae

BIOLOGICAL SOURCE

- The botanical name is Cassia senna L.
- The biological source of senna is dried leafleats it's whole plant. [6]

GEOGRAPHICAL SOURCE

Senna alexandrina is naturally cultivated in Mali east area to Somalia and Kenya. It is indigenous in Asia from the Arabian peninsula to India and Sri Lanka.[7]

BOTANICAL CLASSIFICATION [8]

Botanical name- Senna alexandrina

Family- Fabaceae

Kingdom- Plantae

Division- Tracheophyta – Vascular plants

Class- Magnoliopsida

Order – Fabales

Family- Fabaceae

Genus- Senna

Specie- S. alexandrina

ORGANOLEPTIC PROPERTIES

Colour- Flower- Yellow

Leave- Yellowish green

Odour- Slight and unpleasant

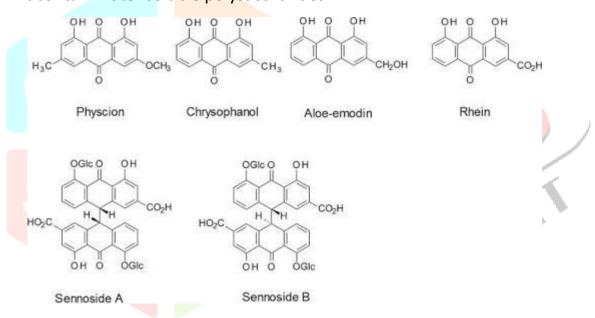
Taste- Macilaginous, bitter and characteristic

Size – Leaves are 7-8mm in width and 25 to 60mm in length

- The senna Leave is lanceale in shape.
- The acute in apex with the spine in whole leaves of senna at the top.
- Asymmetrical base in a leaflets both its transverse line.
- The transverse line are more important on lower surface.
- Trichomes is present whole surface of leaves.
- Leaves is yellowish green in colour.
- Odour of senna is Slight and unpleasant.
- Taste is Macilaginous, bitter and characteristic.
- The size of leaves is 7-8mm in width and 25-60mm in length.
- Senna is grow upto 1m of height.
- The yellow colour it's flower.

CHEMICAL CONSITITUENTS

- The senna is two anthraquinone glycosides is present in less than 2.5% it is also called crystalline.
- It contains with tha Rhein and aloe-emodin chemicals.
- Sennoside A and Sennoside B is the stereoismers of each other, Sennoside A, dextro rotatory form present aglycone and Sennoside B, meso rotatory form aglycone.
- It's leaves is contains 2 naphthalene glycosides.
- It's leaves is contains Calcium oxalate.
- Volatile substance is present in senna.
- The yellow flavonol coloring matters kaempterin and its glycosides and isorhamnetin.
- It contain with the sterol and it's glucosides.
- It contains Monoterpenes and phenylpropanes fatty acids and esters.
- It contain Mucilage and Resin.
- It contain water soluble polysaccharides.



PHARMACEUTICAL USES

- Senna is produces the purgative property.
- Senna is caused reduction in water absorption by influencing peristaltic movement.
- It is produce cathartic property.
- It used in chronic constipation.
- It produce laxative property and FDA is approved in over the counter (OTC) laxative.
- It is used in irritable bowel syndrome (IBS) and rectal surgery.
- It is used in hemorrhoids and weight loss.
- It is un effective laxative during pregnancy and lactation condition.

CONCLUSION

In this review literature we are discussed about senna. The senna is broadly use in pharmaceutical field. It is consist of various types of chemical constituents such as glycosides, glucosides, sennoside, calcium oxalate, sterol and resin. The senna is also used in chronic constipation, irritable bowel syndrome, rectal surgery, hemorrhoids, weight loss and reduction of water absorption.

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