



**SENNOSIDES**  
(*Cassia angustifolia* Extract)

# Sennosides

Senna glycoside, also known as sennoside or senna, is a medication used to treat constipation and empty the large intestine before surgery. Sennoside A, one of the sennosides present in the laxative medication Sennosides along with other anthraquinone like hydroxyanthracene glycosides are the derivatives of Senna leaves. In the traditional and modern routine of medicines they have been used as proven laxatives in a natural way.

Senna is prepared for use by garbling, or picking out the leaflets and rejecting the lead-stalks, impurities, and leaves of other plants. Premium quality Senna may be known by the bright, fresh, yellowish green colour of the leaves, with a faint and peculiar odour rather like green tea, and a mucilaginous, sweetish, slightly bitter taste.

Botanical name: *Cassia angustifolia* Vahl., *C. acutifolia* Del

Family: Leguminosae

Common name: Senna

Synonyms: Svarnapatri (Sanskrit), Sanay Sana ka Patt (Hindi), Avuri (Tamil)

Parts used: Leaves, Pods

## Grades produced by Sunpure Extracts Pvt Ltd

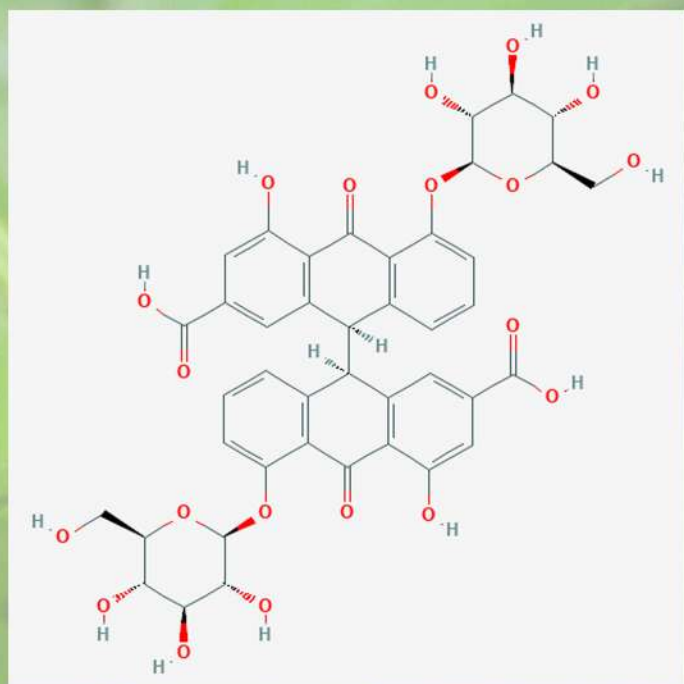
- ❖ Calcium Sennoside A&B 20%, 40% and 60% as per USP Grade
- ❖ Calcium Sennoside A&B 20%, 40% and 60% as per BP Grade
- ❖ Calcium Sennoside A&B 20%, 40% and 60% by HPLC Method
- ❖ Sennoside 90% as per USP Grade
- ❖ Leaf Powder contains more than 2% of Sennoside



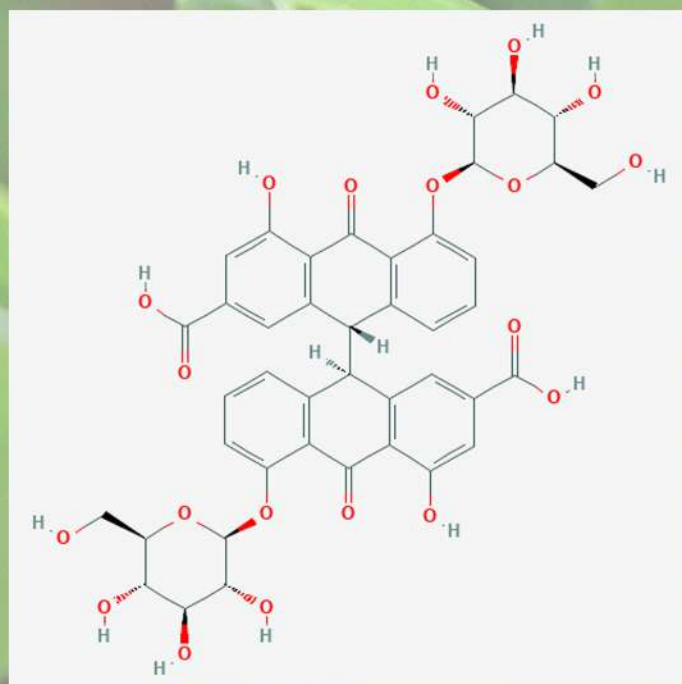
## Chemical constituents

Sennosides A and B. The major constituent of the sennoside is emodin (1,3,8 trihydroxy-6-methyl-anthroquinone).

## Structure of active constituents



Sennoside A



Sennoside B

## Medicinal Application

- ✎ The medicinal action of Senna can be attributed mainly to the anthraquinone glycosides, especially sennoside A and B. It appears that the aglycone portion is responsible for its action. The breakdown of the anthraquinone glycosides in the digestive tract can occur in one of two ways. The bowel flora can directly hydrolyze them in a similar way to that of free active aglycone.
- ✎ Alternatively, in the presence of bile and the sugar moiety, the free aglycone can be absorbed into the blood stream and secreted later into the colon. The final result is stimulation of the Auerbach plexus resulting in increased intestinal muscle contraction.
- ✎ Its mucilage content decreases bodily absorption of fluid leading to an enhancement of the final laxative action.
- ✎ It is known to have antihelminthic property.



## Pharmacology

It is a soft purgative because of the presence of ample Anthraquinone. Senna leaves and pods have been shown to have laxative activity. It is useful in habitual constipation. Pharmacological investigations show that sennosides A and B account for the entire activity of the senna leaves and pods. Leaves contain glycosides, sennoside A, B, C and D. Two naphthalene glycosides have been isolated from leaves and pods.

## Applications

- ✎ Senna is used in treating constipation, by stimulating intestinal peristalsis.
- ✎ It is useful in painful hemorrhoids, as it ensures soft and easy bowel movements.
- ✎ Paste of Senna leaves is applied to various skin diseases like acne, eczema etc
- ✎ It is used as an antihelminthic since it expels intestinal worms effectively.
- ✎ It is also used in hypertension and obesity.
- ✎ It is useful in loss of appetite, dysentery, hepatomegaly, splenomegaly, indigestion, malaria,
- ✎ jaundice, gout, rheumatic disorder and anaemia.

Sunpure Extracts Pvt Ltd has evolved a frontrunner in botanical extracts and nutraceutical ingredients in India & global platform with a cutting-edge cGMP Manufacturing Plant spread in pristine pollution-free environment, Sunpure Research Incubation Centre (SRIC) has team of dedicated scientists and full spectrum testing facilities. SRIC supports company in achieving new bioactives / derivatives along with filing DMFs, Dossiers, patents and working in compliance and tandem with Global Regulatory Bodies.



## CERTIFICATIONS



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