Stevia rebaundiana

Stevia rebaudiana, commonly known as stevia, is a member of the Asteraceae (sunflower) family, native to Paraguay and Brazil. This perennial herbaceous plant has been used for centuries by indigenous peoples of South America for its sweetening properties and medicinal benefits. Stevia is primarily cultivated for its sweet leaves, which contain natural compounds known as steviol glycosides, including stevioside and rebaudioside.

The Asteraceae family encompasses a vast array of plant species, including many herbs, shrubs, and trees with diverse medicinal properties. Stevia stands out within this family due to its remarkable sweetness without adding calories, making it a popular alternative to sugar for those seeking to reduce calorie intake or manage conditions like diabetes and obesity.



Name of Stevia rebaundiana in Indian languages:

- 1. Hindi: मीठी तुलसी (Meethi Tulsi) or मधु पत्ती (Madhu Pattee)
- 2. Tamil: இனிப்பு செடிகொடி (Inippu Sedikodi)
- 3. Telugu: తీయని తులసి (Teeyani Tulasi)
- 5. Malayalam: മധുര തുളസി (Madhura Tulasi)
- 6. Marathi: गोड तुळस (Goad Tulsi)
- 7. Bengali: মিষ্টি তুলসি (Mishti Tulsi)
- 8. Gujarati: મીઠી તુલસી (Mithi Tulsi)
- 9. Punjabi: ਮਿੱਠੀ ਤੁਲਸੀ (Mithhi Tulsi)
- 10. Oriya: ମିଠା ତୁଳସୀ (Mitha Tulasi)

Medicinal Properties of Stevia rebaundiana

Medicinally, stevia has been traditionally used as a treatment for various ailments. Its leaves contain a range of bioactive compounds, including flavonoids, terpenes, and tannins, which contribute to its therapeutic effects.

1. Antidiabetic: Stevia has gained attention for its potential to help regulate blood sugar levels. Research suggests that steviol glycosides may enhance insulin sensitivity and stimulate insulin secretion, making it beneficial for individuals with diabetes or those at risk of developing the condition.

2. Antioxidant: The presence of flavonoids and other antioxidants in stevia leaves contributes to their ability to combat oxidative stress and reduce inflammation in the body. Antioxidants help protect cells from damage caused by free radicals, thereby supporting overall health and reducing the risk of chronic diseases.

3. Antimicrobial: Stevia extracts have demonstrated antimicrobial properties against a wide range of bacteria and fungi. Studies have shown that steviol glycosides possess antimicrobial activity against pathogens such as E. coli, Salmonella, and Candida albicans, suggesting potential applications in food preservation and infection control.

4. Hypertension management: Some research indicates that stevia may have a beneficial effect on blood pressure regulation. By promoting vasodilation and improving endothelial function, steviol glycosides may help lower blood pressure levels, thereby reducing the risk of hypertension and related cardiovascular complications.

5. Weight management: Stevia's zerocalorie nature makes it a valuable tool for individuals looking to manage their weight. By providing sweetness without contributing to calorie intake, stevia can be used as a substitute for sugar in foods and beverages, helping to reduce overall calorie consumption and support weight loss efforts.

6. Digestive health: Stevia has been traditionally used to alleviate digestive issues such as indigestion, bloating, and diarrhea. Its antiinflammatory and antimicrobial properties may help soothe the digestive tract and promote gut health, though more research is needed to fully understand its mechanisms of action in this regard.