

Natural plant extracts incorporated cane sugar product (Low GI Sugar)



Background

“Sugar” generally refers to sucrose, which is manufactured primarily from sugar cane (*Saccharum officinarum*) or sugar beets (*Beta vulgaris*) has been part of the human diet for millennia. Excessive consumption of sugar can increase the risk of adverse health outcomes, including type II diabetes mellitus and cardiovascular disease. The main objective of this invention is to produce cane sugar that is incorporated with selected plant extracts; in aim to suppress glycaemic impact.

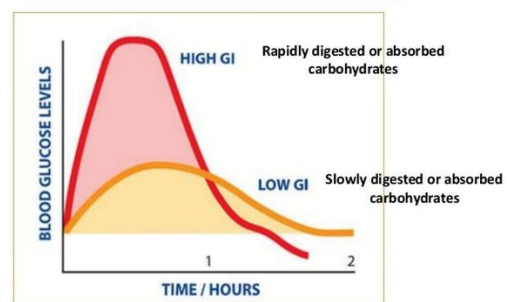


Technical Problem

The glycemic index or GI ranks carbohydrates according to their effect on blood glucose levels. The lower the GI, the slower the rise in blood glucose levels will be when the food is consumed. High GI foods are foods with a GI greater than 70.

Eating foods with high glycemic index causes sudden rise in blood glucose level. Frequent ingestion of high-GI foods not only reduces the body's sensitivity to insulin, it also overworks the pancreas, causing degenerative conditions in the long run, such as diabetes.

What is Glycemix Index (GI)





Technical Solution

Inclusion of natural plant extract with cane sugar is one of the well discovered method to reduce GI level and a best solution to avoid negative health effects due to excess of sweetened foods and beverages. This natural plant extracts incorporated cane sugar product has a significantly lower **GI (38)** than normal cane sugar (GI = 65) and hence could be used in the diet of patients with hyperglycaemic complications.



Advantageous Effects

A low-glycemic diet can assist with weight loss, lower blood sugar levels and insulin control, disease prevention, increased energy, and improved mood.



Industrial Applicability

Cane or beet sugar can be made with a lower glycemic impact as a diabetes friendly product. This is a natural low glycemic alternative to normal cane/beet sugar.

USJ has already filed the patent for this product.

Contact Information:

Interested parties should contact the following person.

Dr. Priyan Perera

Director

University Business Linkage Cell
University of Sri Jayewardenepura
Gangodawila, Nugegoda, Sri Lanka.

Tel: +94 11 2758411

Mob: +94 77 7258272

Email: ublc@sjp.ac.lk