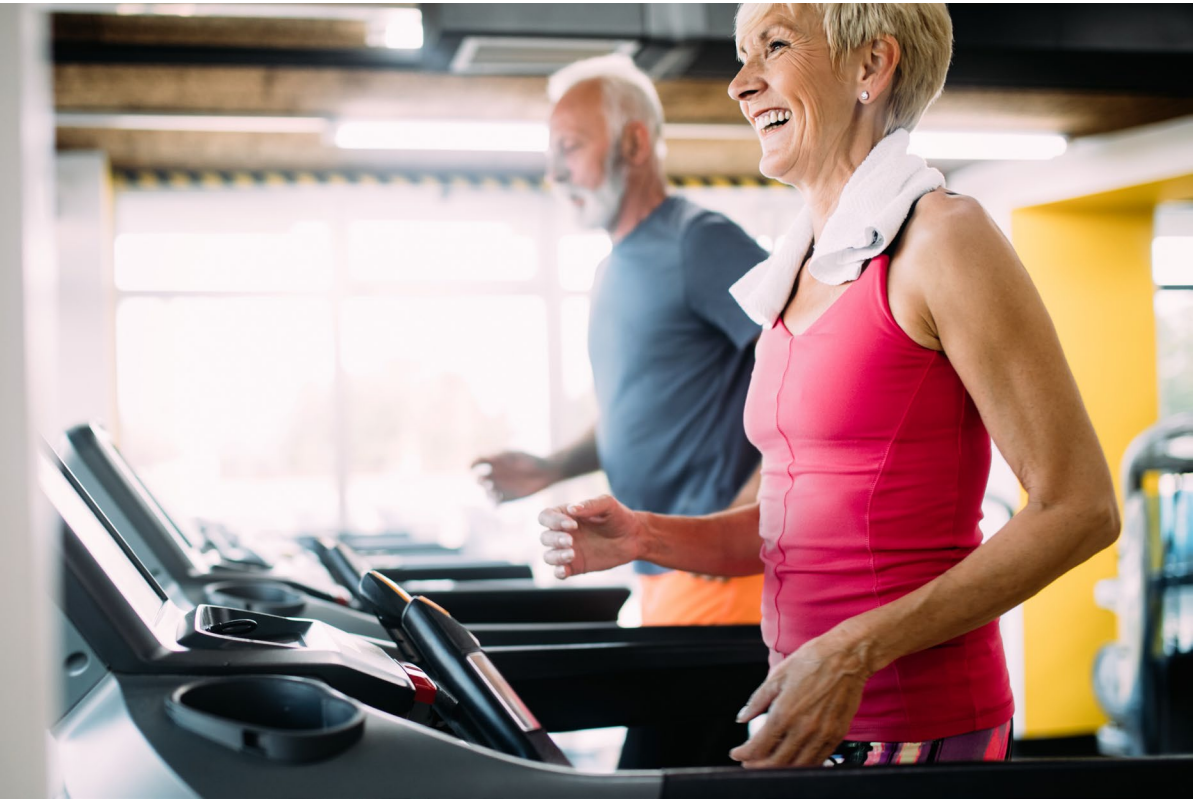
hermes consilium

portfolio.

clinically
supported
ingredients

LIPOPHYTOL



Lipophytol™ microcapsules are water dispersible plant sterols for cholesterol reduction

- **supplier**
  Lipofoods
- **product grade**
  powder suitable for use in foods and beverages
- **daily dose**
  from 800 mg to be able to use health claim
- **stability**
  48 months shelf life
- **certificates**
  Halal, approved Novel Food status in EU, Vegetarian, Vegan

INDICATIONS
CARDIOVASCULAR HEALTH
BLOOD LIPID MANAGEMENT

advantages:

- **microencapsulation** facilitates the use in different food matrices
- **high phytosterol concentration**
- **readily dispersible**
- **2 grades available**
- **authorized EFSA health claim:** Plant sterols contribute to the maintenance of normal blood cholesterol levels

mechanisms of action:

- **plant sterols reduce cholesterol absorption** and thus circulating levels of cholesterol
- **sterols compete with cholesterol for space in the micelles,** resulting in unabsorbed cholesterol which is later excreted from the body
- **sterols help lower LDL cholesterol (**bad cholesterol), but don't appear to affect levels of HDL cholesterol (good) or triglycerides

Feiolix®

powder made from 100% New Zealand *Feijoa sellowiana* or Pineapple guava, providing benefits for metabolic support and pre-diabetes

- **supplier**
  Anagenix
- **product grade**
  powder suitable for capsules, tablets, sachets, scoops
- **daily dose**
  1150-2300 mg
- **stability**
  36 months shelf life; material is hygroscopic
- **certificates**
  non-GMO, self-determined GRAS, gluten-free, preservative-free

INDICATIONS
BLOOD SUGAR MANAGEMENT
PRE-DIABETES
CARDIOVASCULAR HEALTH
WEIGHT MANAGEMENT

advantages:

- **unique ingredient**
- **provides benefits of the whole Feijoa fruit** including the skins
- **scientifically supported**
- **provides insulin-sensitizing abscisic acid,** anti-inflammatory polyphenols & satiety-promoting dietary fiber
- **improves blood sugar levels**
- **manages blood lipid levels**
- **helps reduce weight gain**
- **patented** product

mechanisms of action:

- **anti-inflammatory properties**
- **reduces blood glucose and HbA1c** (glycated hemoglobin which measures average level of blood sugar over the past 2 to 3 months)
- **reduces triglycerides and total cholesterol**
- **promotes satiety** contains prebiotic fiber which stimulate gut bacteria to produce short chain fatty acid propionate which controls satiety

clinical study:

- **Internal study: Effect of Feiolix feijoa extract consumption by patients with type 2 diabetes** (randomized, double blind, placebo-controlled trial)

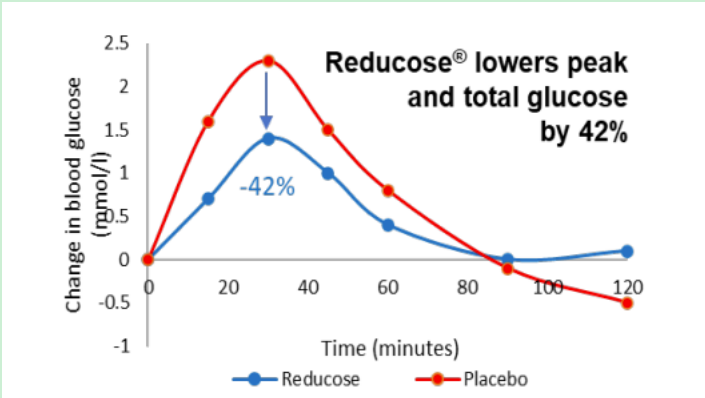
pre-clinical studies:

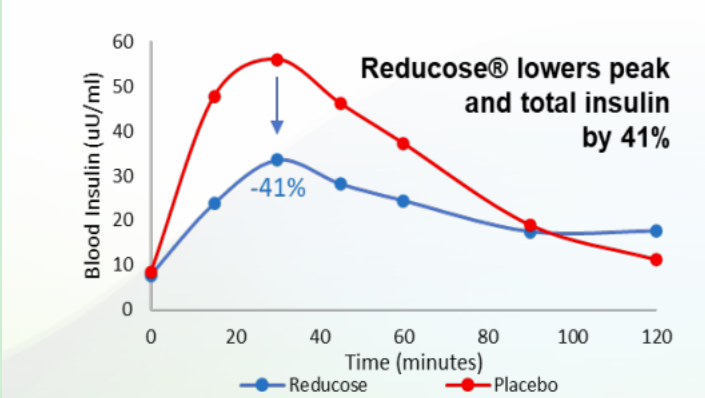
- **Internal study: The effect of feijoa extract on obesity in leptin-deficiency obese animal model** (published in patent specification)
- **Internal study: Determination of the effect of feijoa extract in high fat diet (HFD) induced metabolic syndrome in C57BL/6J mice** (unpublished)
- **Internal study: The effect of feijoa extract on immune function in aged mice animal model** (published in patent specification)
- **Internal study: Evaluation of the anti-inflammatory properties of feijoa extracts** (unpublished)

Reducose®

proprietary mulberry (*Morus alba*) leaf extract, turns fast sugars and other carbs into slow ones

- **supplier**
  Phynova
- **product grade**
  powder suitable for tablets, capsules, soft melts, foods (baked goods, bars, fortified rice, congee), beverages (RTD beverages...)
- **daily dose**
  200-250 mg
- **stability**
  30 months shelf life
- **certificates**
  Halal, Kosher, vegetarian, non-GMO



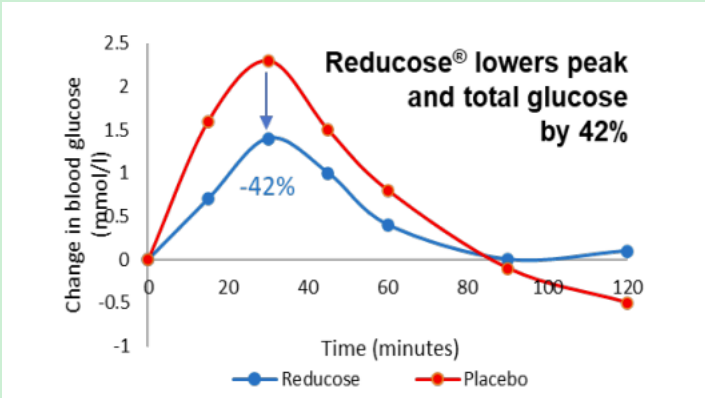


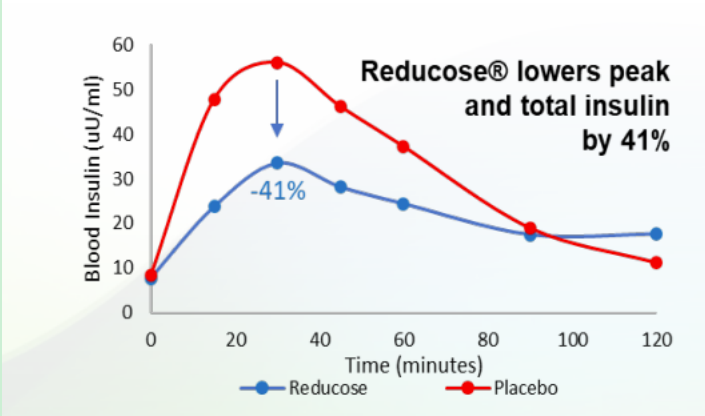
advantages:

- **patented, unique & natural water extract** for healthy blood glucose with immediate effect
- **clinically proven ~ 40% reduction** in post-meal blood glucose and insulin response
- **unlike typical carb-blockers,** prevents absorption of a wide range of carbohydrates
- **reduced cravings** and feeling of hunger
- **undigested carbs feed the good bacteria**

mechanisms of action:

- **contains 1-deoxynojirimycin** (structurally similar to D-glucose) which inhibits intestinal α-glucosidase enzymes, responsible for breakdown of carbohydrates before absorption
- **adding Reducose® to a meal lowers the glycemic index** of the food and lowers the postprandial blood glucose response, as it stops the carbohydrates from being digested
- **Reducose® is normally absorbed and excreted** unmetabolized after its action





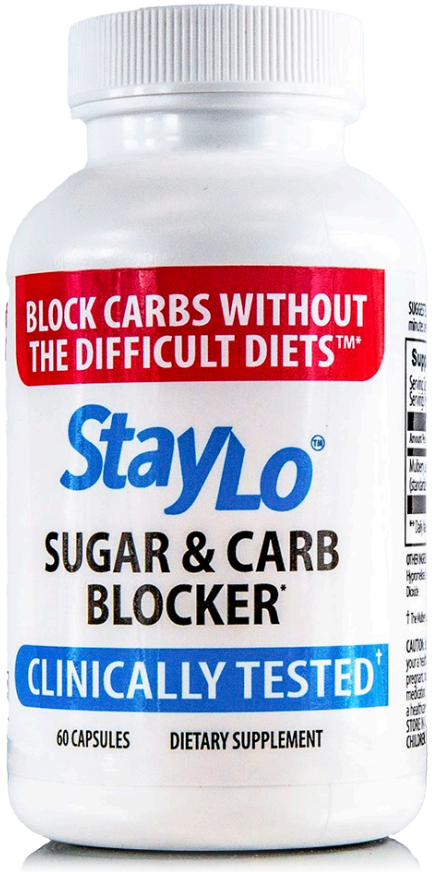
clinical studies:

- Lown et al., 2015: Mulberry extract to modulate blood glucose responses in normoglycaemic adults (MULBERRY): study protocol for a randomised controlled trial
- Lown et al., 2017: Mulberry-extract improves glucose tolerance and decreases insulin concentrations in normoglycaemic adults: Results of a randomised double-blind placebo-controlled study
- Wang et al., 2018: Mulberry leaf extract reduces the glycemic indexes of four common dietary carbohydrates (Co-consumption of Reducose with sucrose, maltose, or maltodextrin can reduce the GI values of these carbohydrates)
- Thondre et al., 2021: Mulberry leaf extract improves glycaemic response and insulaemic response to sucrose in healthy subjects: results of a randomized, double blind, placebo-controlled study

pre-clinical study:

- Liu et al., 2016: Prevention Effects and Possible Molecular Mechanism of Mulberry Leaf Extract and its Formulation on Rats with Insulin-Insensitivity

product examples



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