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LEADERS IN PRODUCT INNOVATION



As the industry continues to evolve, customers continue to be bombarded with a plethora of products and brands, understanding quality and efficacy is not always an easy sell...

As leaders in the industry, research supported product innovation can be an effective strategy to fortify your position, while increasing your market share.

Market fortification, innovation, and differentiation through condition specific, proprietary, patented products by Nuumara, solely distributed in the E.U. and UK through



REAL SCIENCE. REAL RESULTS.



GLUCOSLIM



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POLYGLUCOLYN (CODE CSO5) - PATENTED, PROPRIETARY TEA POLYSACCHARIDE (TPS) EXTRACT

Therapeutic dose Polyglucoslyn...100mg w/ RedNite® Standardized Beetroot powder

**Blood Glucose and Healthy Weight Management/Pre Diabetes,
Gold Medal winner International Patent Technology Expo**

HIGHLIGHTS

- Proprietary and Patent protected from 22 varieties of select tea polysaccharides of particular molecular weight
- Unprecedented Purity
- Clinically Proven
- Is 50-fold more potent than Acarbose (anti-diabetic drug) for a-glucosidase inhibition
- Acts and is as potent as Metformin (top selling anti-diabetic drug) to inhibit glucose transportation which effectively reduces the uptake of glucose without side effects
- Optimizes Healthy Weight Management
- Strongly inhibits alpha-glucosidase and block's glucose transportation and shows strong anti-diabetic activity with type I and type II diabetes
- Supports Healthy Blood Sugar Levels and Balance
- Supports Blood Sugar Metabolism and Glucose Proficiency
- Reduces oxidative Stress

CLINICAL RESEARCH

POLYGLUCOLYN™ – 22 (MOLECULAR WEIGHT) VARIETIES OF TEA POLYSACCHARIDES

Our patented proprietary extract technology concentrates the Tea Polysaccharides (CSO5) to an outstanding 75%, an unprecedented purity among all similar products worldwide.

Our trials are further supported through bioinformatics analysis gathered using our renowned SAPHRON TCM Database.

Significant efficacy

Tea Polysaccharides (TPS) is recognized for its benefit in maintaining healthy blood sugar levels by inhibiting glycosidase that is responsible for converting starch into glucose through intestinal absorption (see Figure 1 below).

Figure 1. The tea extract is 50-fold more potent than Acarbose for α -glucosidase inhibition

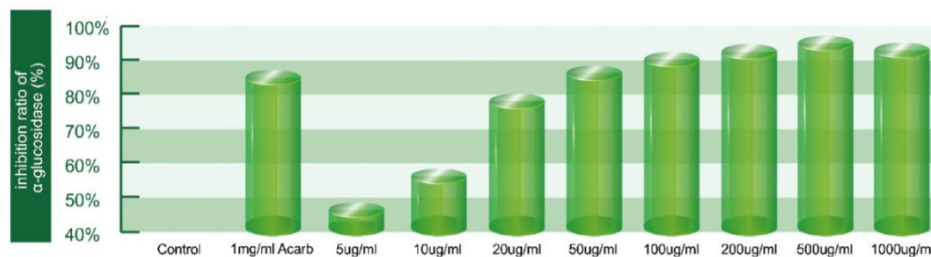
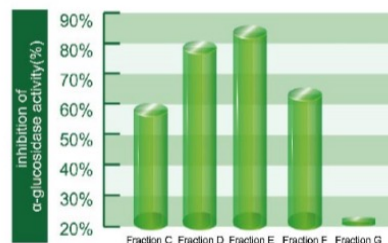


Figure 2 Inhibition of α -glucosidase by different fractions of tea polysaccharides



More importantly, we discovered that it is not the total TPS from tea extract that result in its efficacy but rather a fraction of TPS within a certain molecular weight range (see Figure 2 left).

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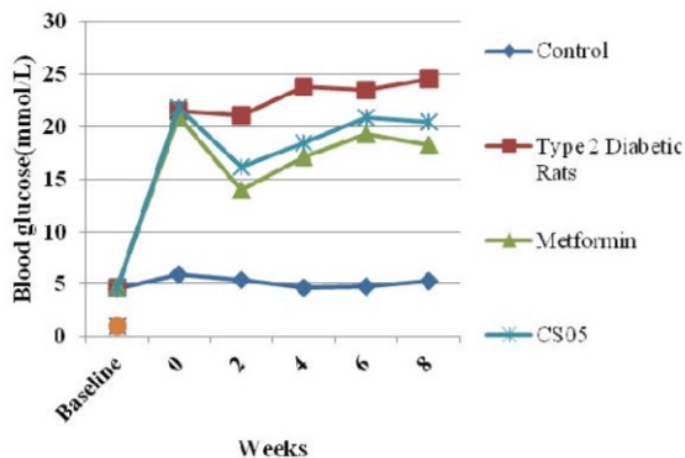
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In addition, the activity of glycosidase inhibition by TPS is largely determined by the type of tea from which the TPS is extracted. We tested hundreds of teas to determine the best and specific source within the targeted molecular weight range that produce the highest anti-glycosidase activity.



Clinical trials artificially induced hyperglycemia, followed by daily administration of Polyglucolyn (code CS05).

Our results demonstrated that treatment with Polyglucolyn results in significant improvement in blood sugar control measured over long term use.

[Food Funct.](#) 2015 Jan;6(1):297-304. doi: 10.1039/c4fo00970c. Epub 2014 Nov 28.

The anti-obesity effect of green tea polysaccharides, polyphenols and caffeine in rats fed with a high-fat diet.

[Xu Y¹](#), [Zhang M](#), [Wu T](#), [Dai S](#), [Xu J](#), [Zhou Z](#).

RESULTS

The results indicated that polyphenols and polysaccharides were responsible for the suppressive effect of green tea extracts on body weight increase and fat accumulation.

