



CBC (EUROPE) Ltd.
Chemical Division

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DATA SHEET

TOUCHI EXTRACT

Diabetes, TG, FOSHU status Touchi Extract [TE]



- **Touchi Extract** derived from "**Touchi**", fermented soybean, which has been a Chinese traditional medicine and food for a several centuries and developed in cooperation with Hokkaido University.
- **FOSHU status in JAPAN**. Patented in Japan, USA, China and Europe.
- **TE has a property to inhibit the activity of α -glucosidase and inhibits the rise of blood sugar level after meal. In this mechanism, there is decrease action of serum triglyceride because it improves insulin resistance.**
- **Daily intake is TE : 0.3 g/meal (0.9 g/day), effectively lowered FBG and HbA1c in many clinical tests. The effect appeared in the examinee of 77.8%. No side effect. Neither abdominal disorder nor other side effect.**
- **Safety: No mutagenicity : Ame's test
No acute toxicity: LD50 over 5,000 mg.**
- **Much of PMS data is showed effectiveness and safety of TE.**

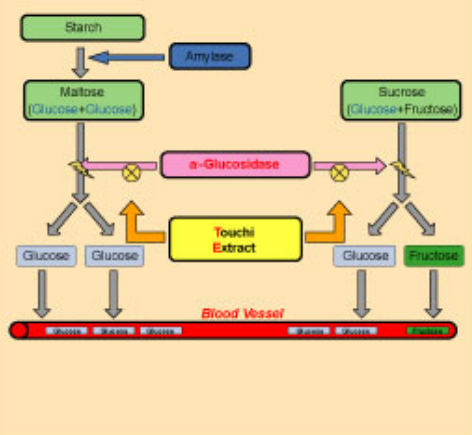


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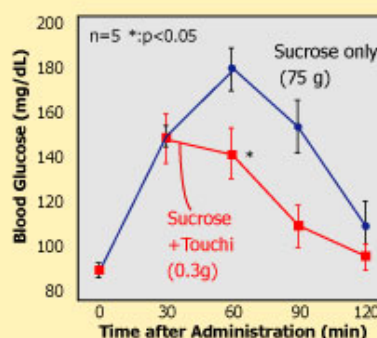
TOUCHI EXTRACT

Anti-Diabetic Mechanism of TE as Alpha-Glucosidase Inhibitor



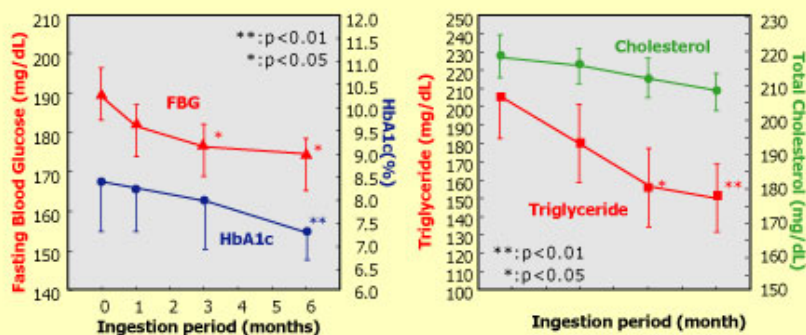
Single Oral Ingestion Test of T.E [Sucrose Tolerance Test]

Method: 8 borderline type-2 diabetic subjects (FBG < 110 mg/dL). After 12 hr fast, subjects were orally loaded with sucrose (75 g) with or without TE.



TE Clinical Study [Open trial]

Method: 23 borderline & low grade diabetes. 0.3g-TE/meal (0.9g-TE/day) . 6 months administration.



FBG, HbA1c and Triglyceride levels significantly decreased. Total Cholesterol levels substantially decreased.

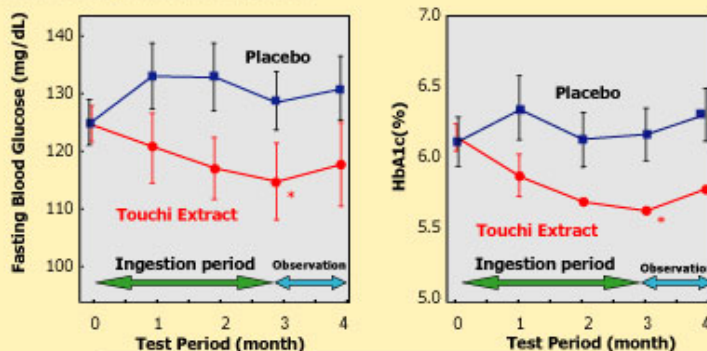
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TE Clinical Study [Double-blinded]

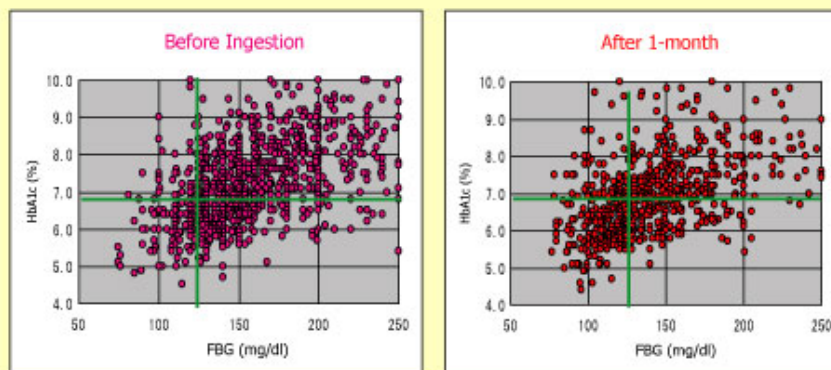
Method: 36 borderline and mild type-2 diabetic subjects (FBG > 100 mg/dL, HbA_{1c} > 5.0%).
After 2 weeks observation period, assigned to two groups to receive either TE (0.3 g/meal, 0.9g/day) or without TE supplement for 3 months.



FBG and HbA_{1c} levels significantly decreased.
Strong inhibitory activity against α -Glucosidase

The Change of Consumers FBG and HbA_{1c} for 1 month (About 3,000 questionnaires)

As you can see from this graph, you can obviously observe that the core of the profile reaches the normal level of FBG and HbA_{1c}.



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