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BIORESOURCE DATA MINING

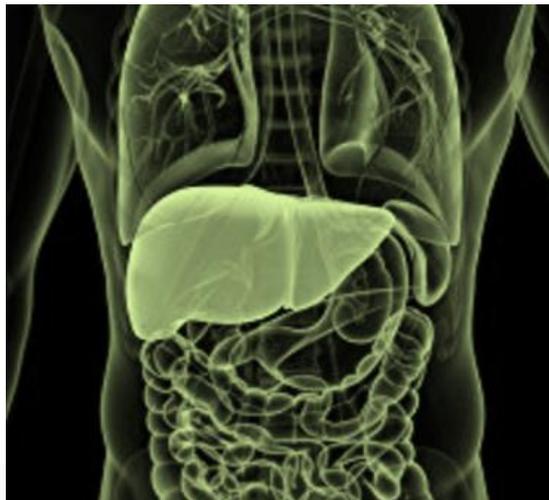
TCI 透過獨家的生物挖礦開發模組，
專利原料及產品配方皆可快速產出大量科學驗證數據支持。

產品在廣告宣傳必須遵守各國法規。

TCI uses **BIORESOURCE DATA MINING** in developing patent materials and product formula, to generate mass supportive scientific data.

The advertising of products must follow local regulations.

CONFIDENTIAL



Detoxi One™ *Bacillus coagulans* TCI711

Detoxify and liver care probiotic

Join & Delight TCI CO., LTD
大江生醫股份有限公司

人類共生微生物實驗室 H&M LAB

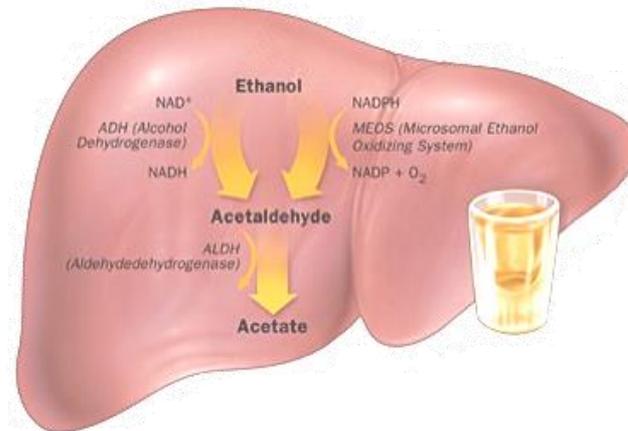
基因研發中心 Gene Lab

功效驗證實驗室 EVE LAB

產品設計部 Product Design Dept.

Ethanol Metabolism

Most of the alcohol is metabolized by the liver. The most common of these pathways involves two enzymes—alcohol dehydrogenase (ADH) and aldehyde dehydrogenase (ALDH). These enzymes help break apart the alcohol molecule, making it possible to eliminate it from the body. First, ADH metabolizes alcohol to *acetaldehyde*, a highly toxic substance and known carcinogen. Then, in a second step, acetaldehyde is further metabolized down to another, less active byproduct called *acetate*.



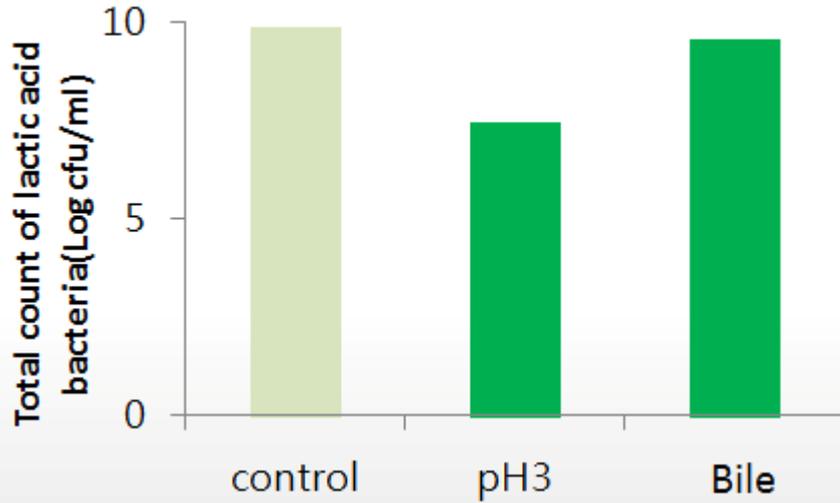
A bottle of beer needs to be metabolized by the liver for three hours. The more you drink, the harder your liver will be. If it exceeds its ability, the liver cells will become inflamed and necrotic, and then cause liver disease.

Bacillus coagulans TCI711

- Safe strain for eat
- Select from apple
- With spore production capacity
- High bacteria count
- Room temperature preservation
- **Sober Up** , Detoxify and liver care



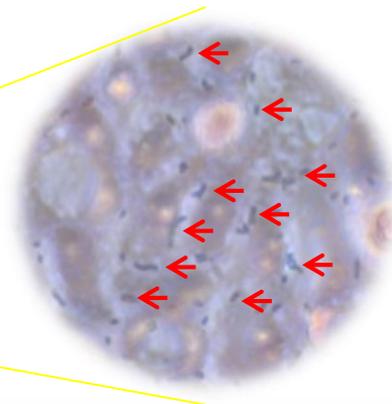
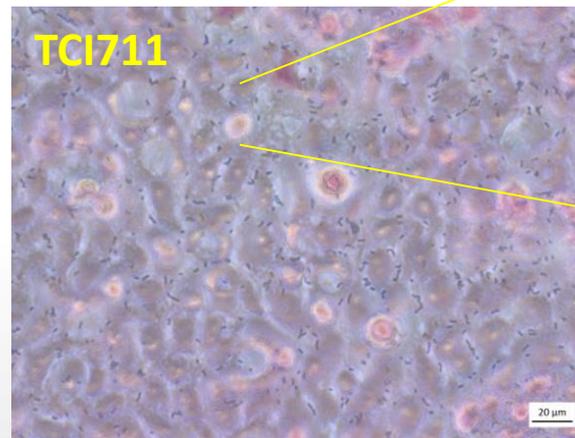
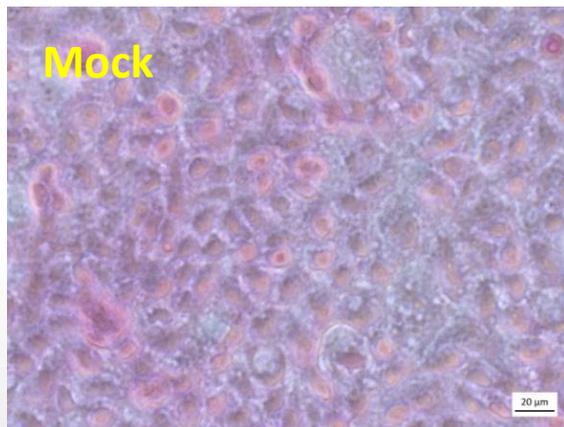
Bile and acid tolerance test



TCI 711 Colonization

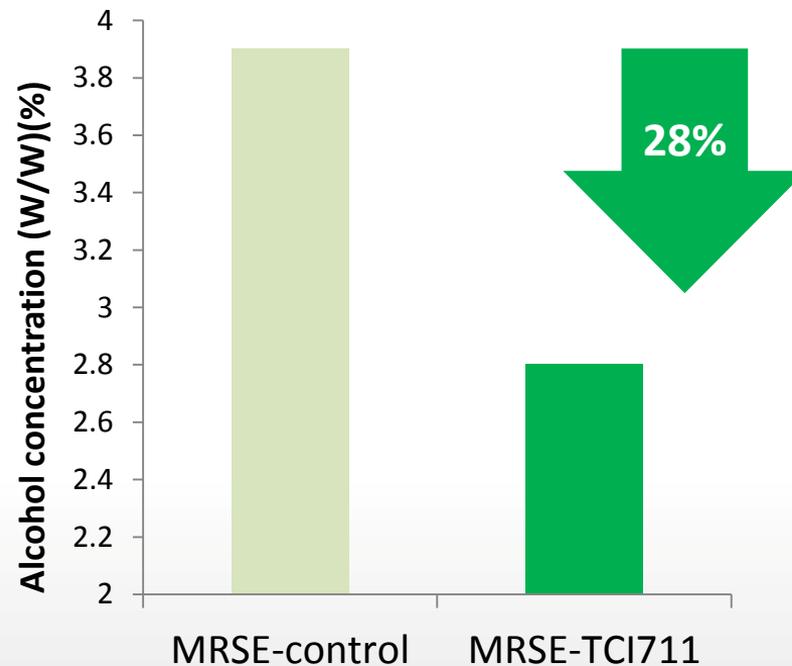
Colonization rate : 346 CFU/cell

Each intestinal cell is covered with 346 units TCI711.



TCI711 Alcohol-removing ability test

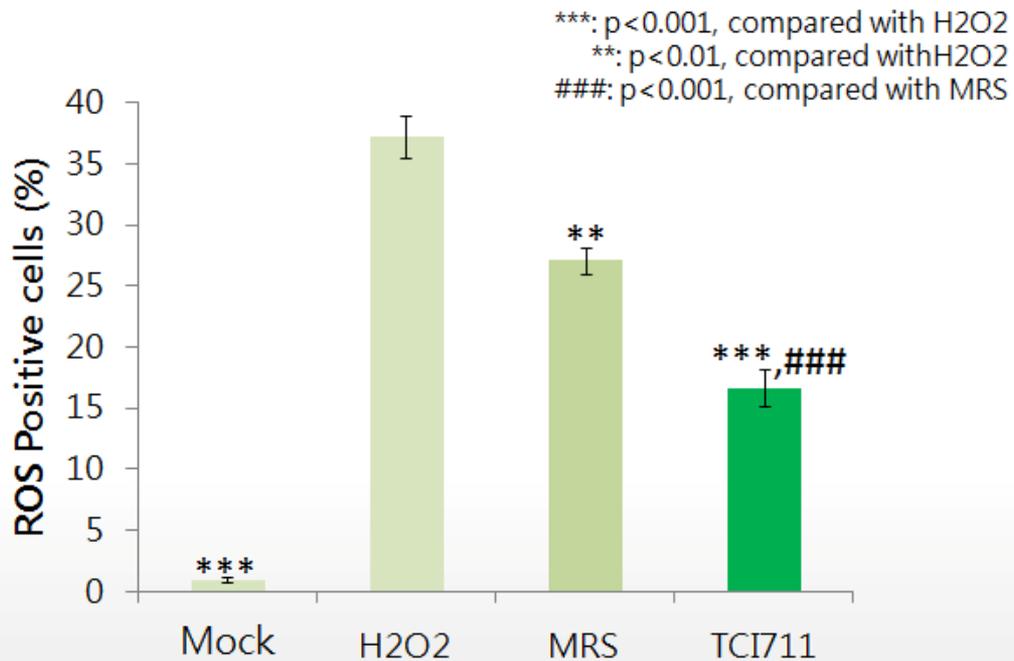
TCI711 was cultured in a medium containing 5% alcohol for 8 hours. Alcohol removal rate was 28%.



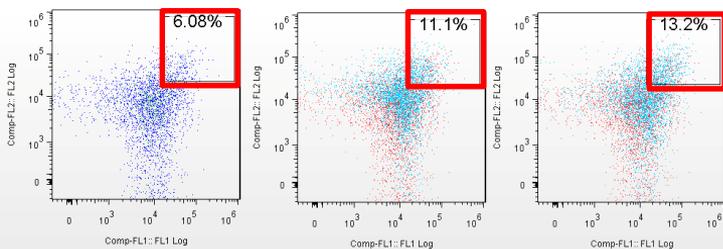


TCI711 can effectively
reduce the formation of ROS in liver cells.

Reduce free radical damage caused by toxic substances.



TCI711 can effectively **increase liver cell activity.**
Make liver function more active.

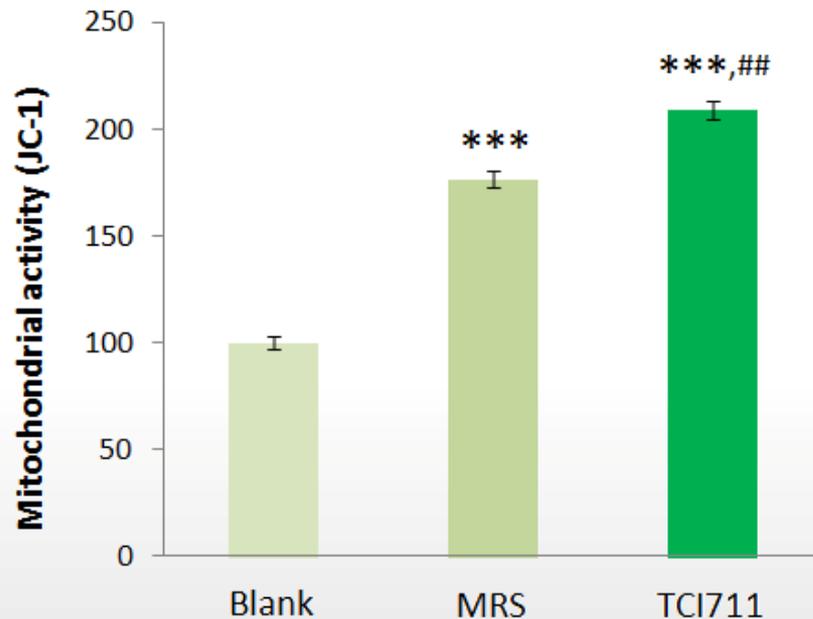


Blank

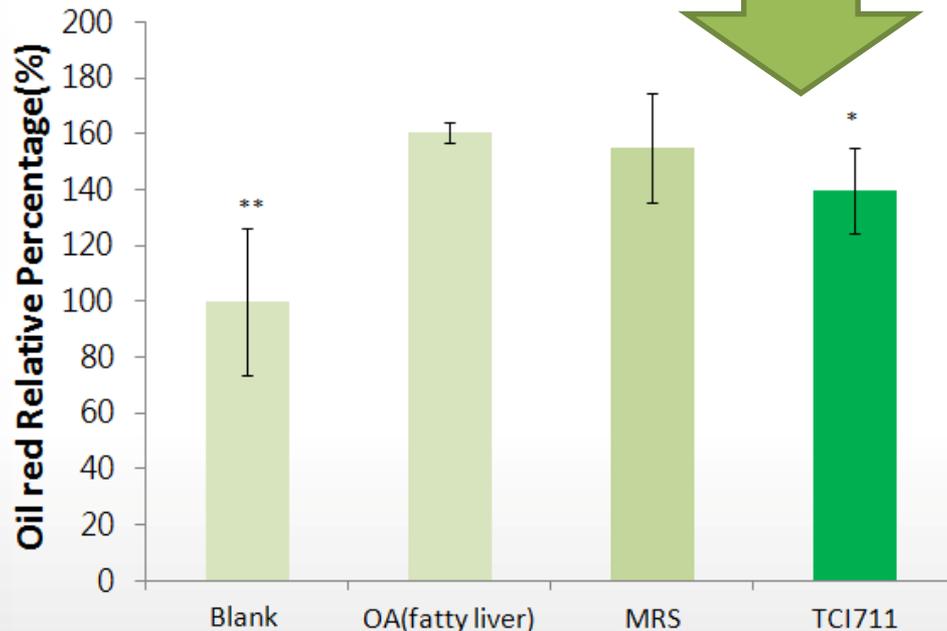
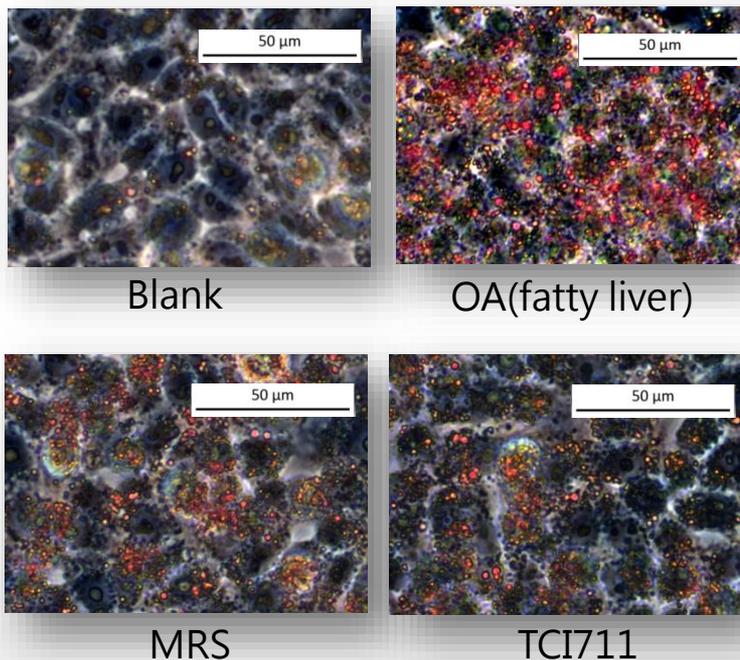
MRS

TCI711

***: $p < 0.001$, compared with Blank
##: $p < 0.01$, compared with MRS



TCI711 can reduce the accumulation of oil droplets in liver cells and reduce the probability of fatty liver formation

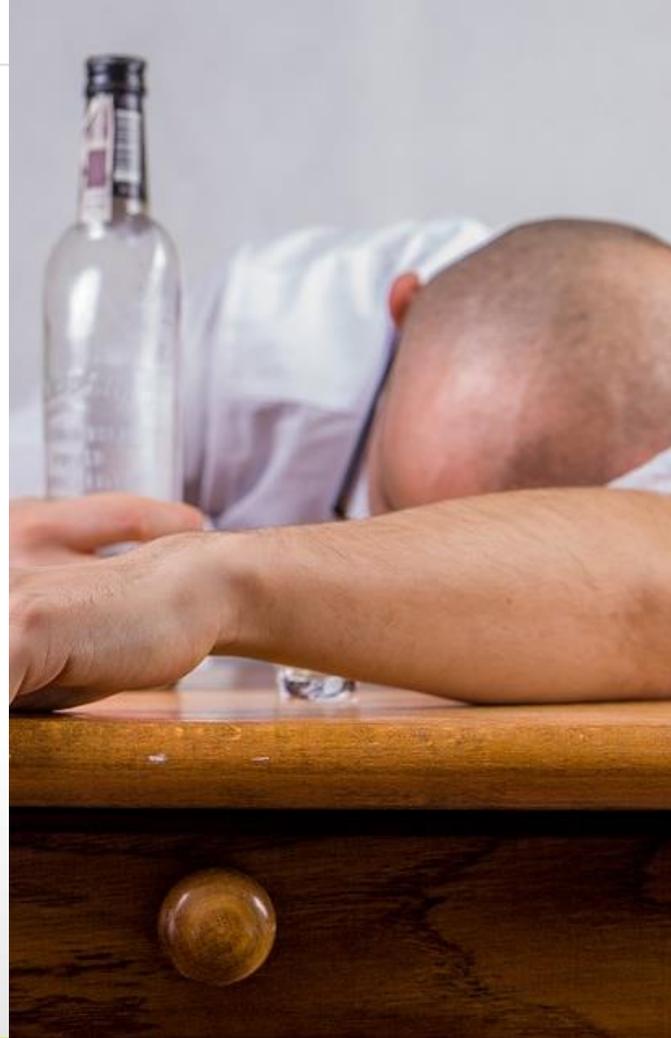


Compare with OA: *p value < 0.05 **p value < 0.01

Clinical Efficacy Evaluation

The aim of the study is to evaluate alcohol metabolic ability of TCI711

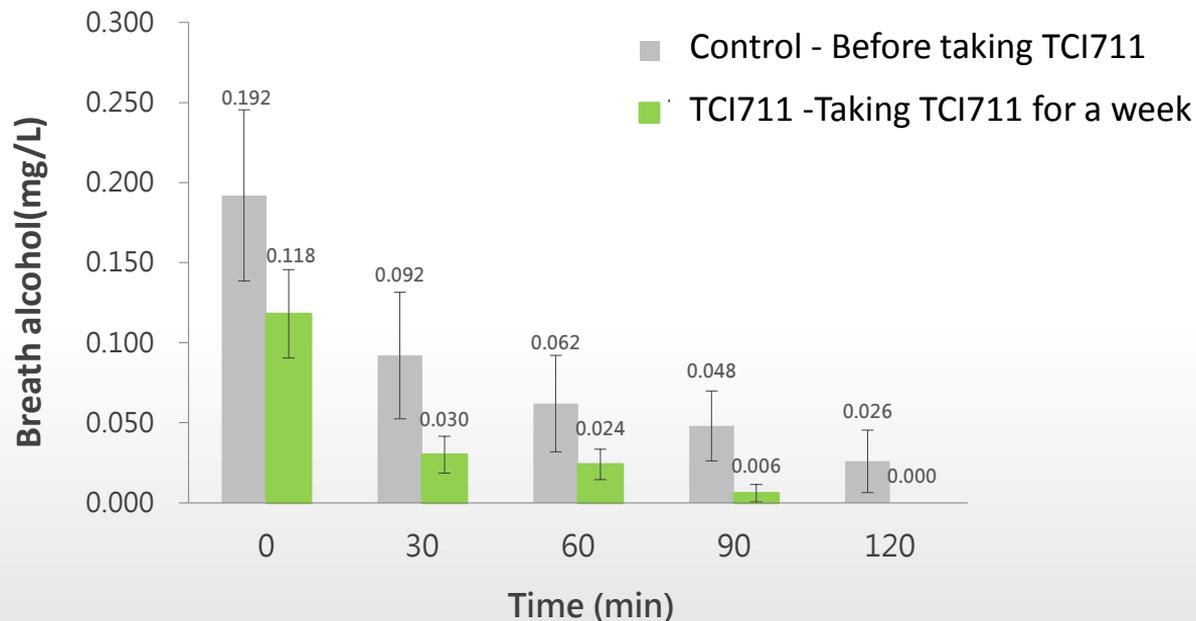
- ❑ Subjects: 5 healthy adults
- ❑ Method: Subjects drank 75 mL Whisky (40% alcohol) in 10 min. Detect breath alcohol concentration after 0, 30,60 90,120 min.
- ❑ Dosage: Take two TCI711 capsules after meal for 1 weeks.



Bacillus coagulans TCI711 - Sober Up Experiment

The results showed that the alcohol concentration of the TCI711 group was significantly lower than that of the control group when the wine was just finished.

And the alcohol concentration has approached 0 at 90 minutes.



Detoxi One Sober Up *Bacillus coagulans* TCI711



Reduce absorption

High colonization rate , TCI711 form a barrier on the intestinal wall and thus reduce alcohol absorption.

Help to remove

Alcohol-removing ability to help the host metabolize alcohol.

Improve liver function

- Decrease ROS expression in HepG2 cells.
- Increases activity of liver cells.
- Inhibition of fatty liver formation.