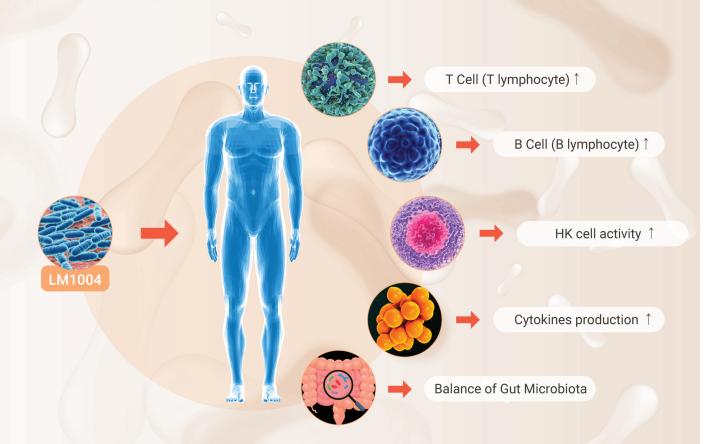
Lacto Mason Robiotics & Microbiome

LactoMason's New paraprobiotics Promune 1004 Originated from Kimchi

Heat-treated Lactobacillus plantarum LM1004



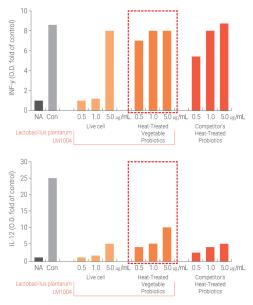
Advantage of Heat-Treated Probiotics

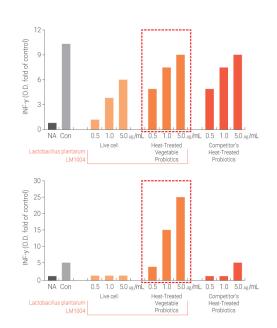
Safety	 (X) Gene transfer to other bacteria Passed in single dose toxicity test
Shelf-life	 Long shelf-life than live cell probiotics and ensured stability
Application	 Used widely for raw materials of foods, feeds, cosmetics and etc

Probiotics for the control of Immune system



Stimulated of production of cytokines



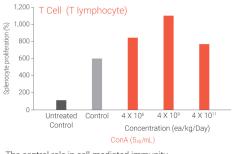


The effect of Lactobacillus plantarum on cytokines level in rats cells were treated with lactic acid bacteria or LPS plus Concanvalin A were treated at the concentration of 0.05~5 $\mu g/mL$ or 1 $\mu g/mL$ for 24 hour in splenocyte. The level of cytokines in the culture supernants were measured using ELISA kits.

- All data are expressed as means±S.D of three independent experiments. - *P < 0.01, significantly different from the control.

In-vivo

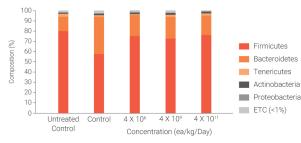
Proliferation of T cell and B cell in splenocyte

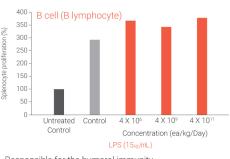


- The central role in cell-mediated immunity. - Matured in the thymus from thymocytes.

- Programmed to recognize, respond to and remember antigens (antigen-specific cell).
 T cell are able to destroy targeted cells on direct contact.



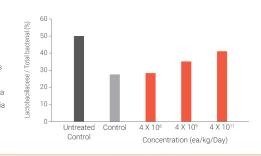




- Responsible for the humoral immunity. - B cells release antibodies specific to the infectious agent.

- The antibodies act against viruses, such as neutralizing virions and directing the lysis of infected cells.

- Also, B cells present antigen and secrete cytokines.





- PROBIOTICS -GOOD FOR SKIN CARE



WHITENING / BRIGHTENING / FACIAL WRINKLE & SKIN ELASTICITY IMPROVING EFFICACY

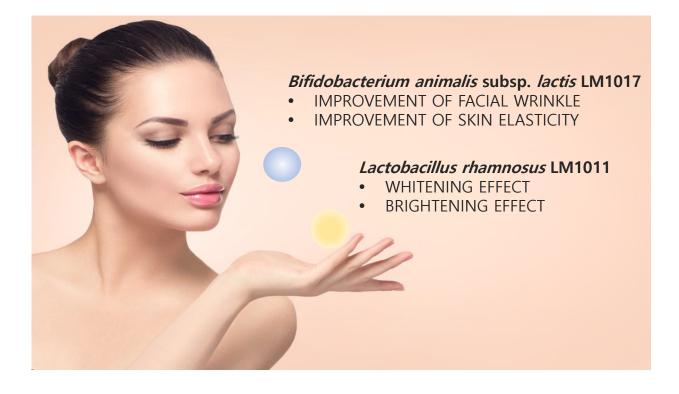
Why do you need **LACTOMASON'S PROBIOTICS** for skin care?

1. Heat-treated probiotics for wide range of cosmetic applications

Heat-treated probiotics can be used for various cosmetic formulations, because they are not affected by heat, pressure, water and so on.

2. Proven skin-care effects from clinical test

Whitening / brightening / facial wrinkle & skin elasticity improving efficacy

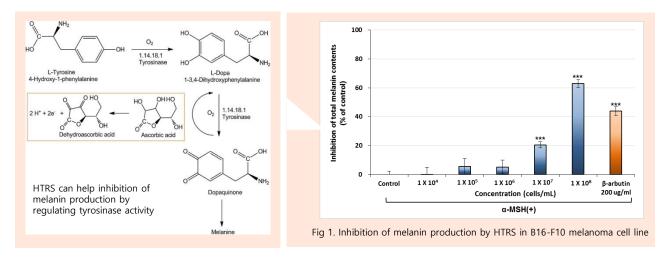




Lactobacillus rhamnosus LM1011

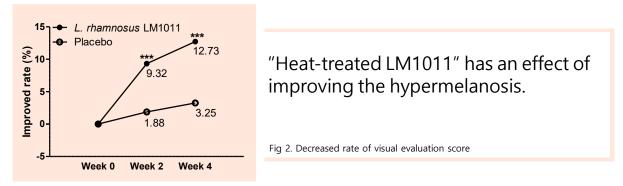
BRIGHTENING • WHITENING

I. In vivo study

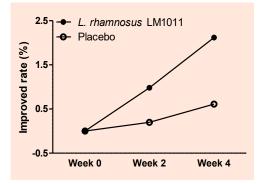


II. Clinical trial

1. Whitening effect on hypermelanosis



2. Brightening efficacy test



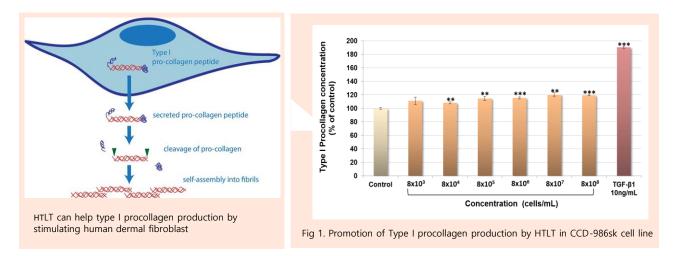
"Heat-treated LM1011" has skin brightening effect. (Temporary changes, individual differences might be.)

Fig 3. Improved rate of L-value(Lightness value)

ACTOMASON *Bifidobacterium animalis* subsp. *lactis* LM1017

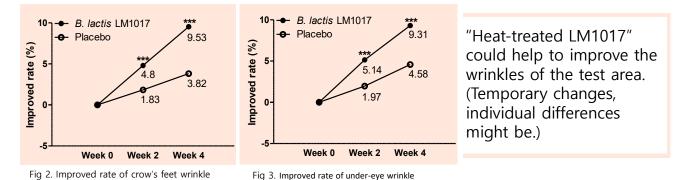
FACIAL WRINKLE & SKIN ELASTICITY IMPROVING EFFICACY

I. In vivo study

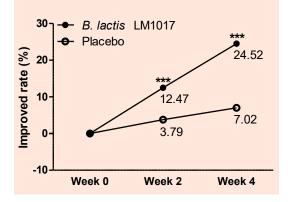


II. Clinical trial

1. Assessment of facial wrinkle improvement test



2. Skin elasticity improving efficacy test



"Heat-treated LM1017" improved the skin elasticity with statistical significance (p<0.05) after 2 weeks of application. (Temporarily, with individual differences by subjects)

Fig 4. Improved rate of skin elasticity