Product Ingredients

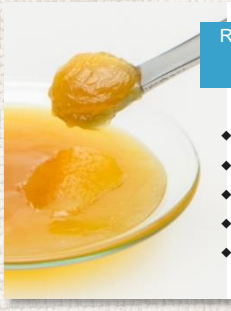
Ri:bra®
RICE BRAN OIL

Ri:bra®
PRO-15

- Base oil for cosmetics
- Emulsifying Property
- Cleansing Function
- As Hair Oil

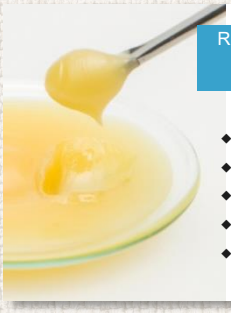
Ri:bra®
γ-ORYZANOL

- UV absorption
- Improving Dry Skin
- Blood Circulation Up
- Moisture
- Anti-Oxidant



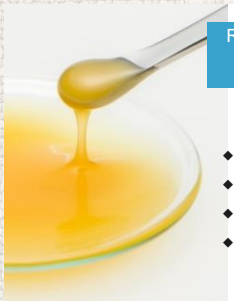
Ri:bra®
RICE GERM OIL GX-N

- γ-Oryzanol 30％
- Improving Dry Skin
- SPF Booster
- Blood Circulation Up
- Moisture



Ri:bra®
RICETEROL ESTERS

- Skin Recovery Effect
- Barrier Function
- Improving Texture
- Prevent color fading
- For make up



Ri:bra®
RICETRIENOL

- Rich in Vitamin E
- Anti-Oxidant
- Improving skin transparency
- Suppress Carbonylation

Ri:bra®
Ferulic Acid

- UV absorption
- Brightening
- Anti-inflammation
- Skin Bacterial Flora
- Anti-Oxidant

Ri:bra®
Inositol

- Activating Skin Cell
- Control Sebum Secretion
- Moisturizing Effect
- Hair growth
- Improving Texture
- Hair Cuticle Protection

Ri:bra®
RICELN-100

- Natural Chelating Agent
- Improving Pigmentation
- Sebum Suppression
- Micro Peeling Effects
- Hair growth

Sustainable Beauty with RICE BRAN

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WAKAYAMA JAPAN

https://www.tsuno.co.jp/

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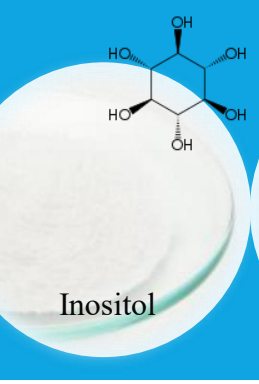
Moisture

Inositol & RICETEROL ESTERS



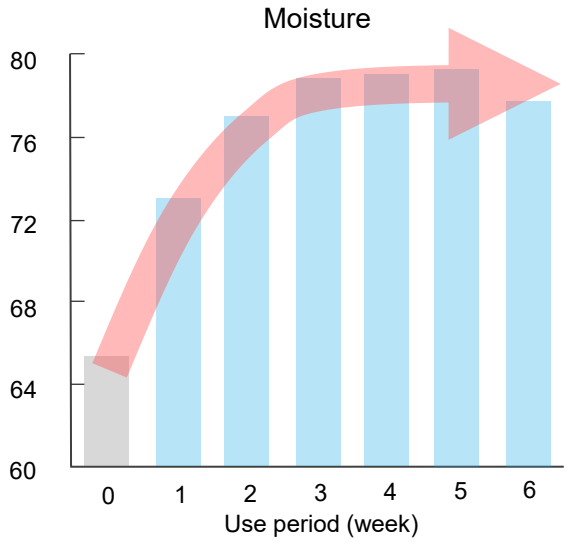
Inositol (IN)

INCI : Inositol

- Moisturizing Effect- I
- Improving Skin Elasticity- II

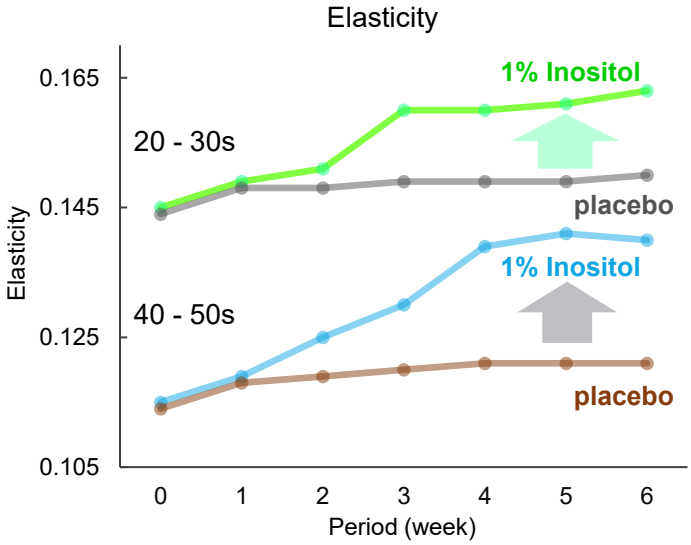
I. Moisturizing Effect

The skin lotion containing 1% Inositol was applied to the healthy skin of inside of an arm twice a day. 20-50 years women (N=15)



II. Improving Skin Elasticity

The skin lotion containing 1% Inositol and placebo was applied to the healthy skin (face) twice a day. 20-50 years women (N=15)



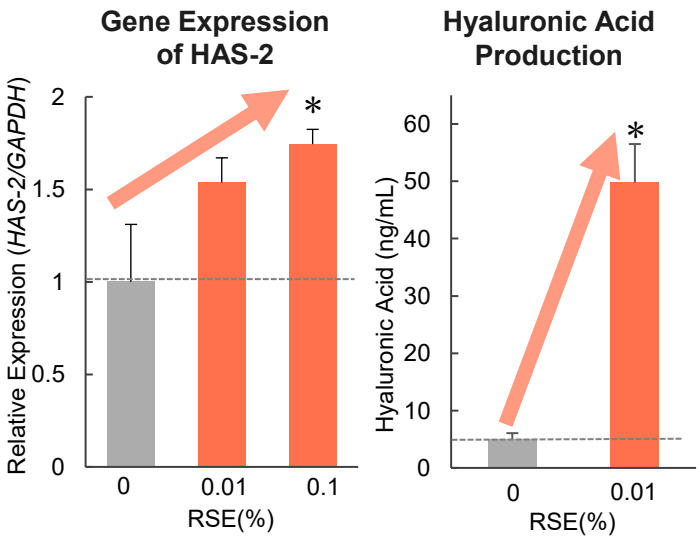
RICETEROL ESTERS (RSE)

INCI : Phytosteryl Oleate or Phytosteryl Rice Branate

- Hyaluronic Acid Production- I
- Effects on Human Skin- II

I. Hyaluronic Acid Production

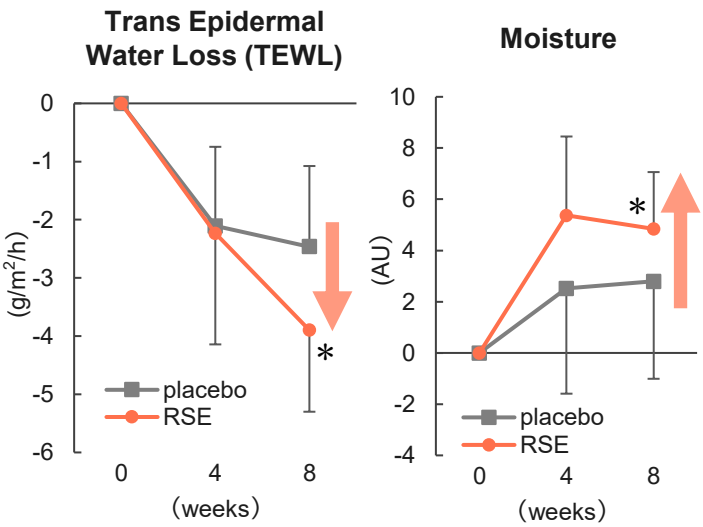
Fibroblasts were cultured with various concentrations of RSE, and the gene expression hyaluronic acid synthetic enzyme (HAS-2) and protein levels of hyaluronic acid were quantified.



*; p<0.05 (vs. 0%) Dunnett's test

II. Improvement of Skin Barrier Function & Moisturizing Effect

RSE 0.5% cream and placebo cream were applied to each half of face twice per day. 20-30 years women (N=12)



*; p< 0.05 (vs. RSE 0week) Wilcoxon signed-rank test

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Acne Care

Ferulic Acid & RICELN-100

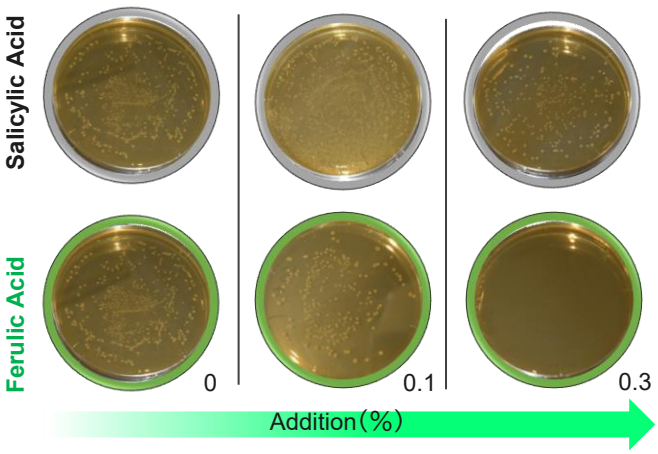
Ferulic Acid (FA)

INCI: Ferulic Acid

- Growth Suppression of *P. acnes*- I
- Anti-inflammatory Effect - II

I. Growth Suppression of *P. acnes*

P. acnes was cultured in medium containing ferulic acid or salicylic acid, then inoculated onto agar plates and cultured for 48 hours.

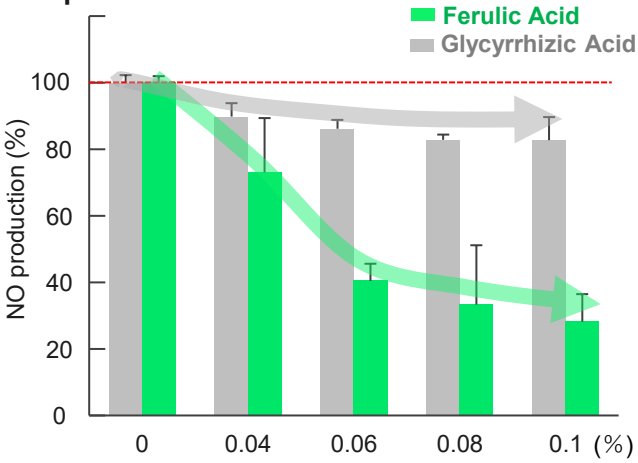


II. Anti-inflammatory Effect

RAW 264 were treated with ferulic acid or glycyrrhizic acid in the presence of 50 ng/mL LPS*. After incubation for 24 h, NO(nitric oxide) levels in the culture were measured using Griess reagent.

*;Inflammatory inducer

NO production



RICELN - 100 (RICELN)

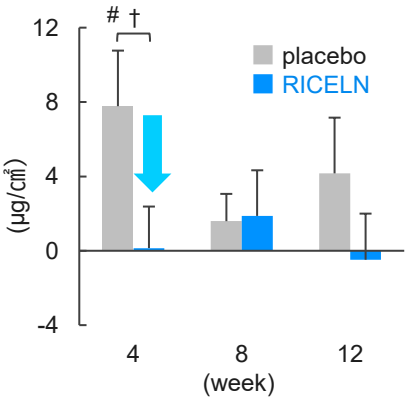
INCI: Sodium Phytate

- Micro Peeling Effects- I
  - Suppress Sebum and Redness

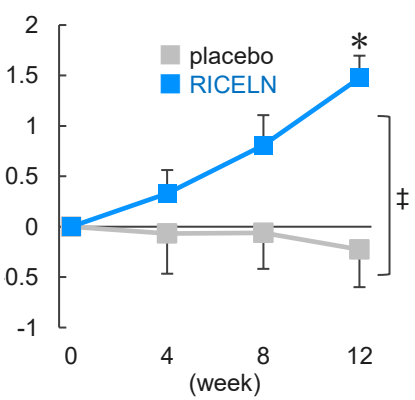
I. Micro Peeling Effects

RICELN-100 3.7% or placebo exfoliating gel was applied to the face once a day. Sebum content was measured using a Sebumeter®, questionnaire survey and imaging analysis with VISIA® Evolution. A VAS questionnaire was used to evaluate the subjects' skin condition and perceived effectiveness. Subject : Healthy men, Age=20-50, n=20 (placebo), n=19 (RICELN).

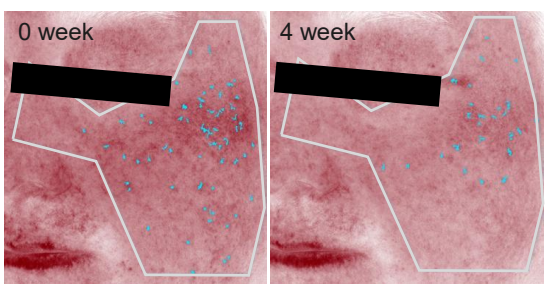
Sebum



Improvement of Acne Trouble



Redness (VISIA analysis)



16.9 ➡ 11.7

5.2 pt DOWN

♯ ; p<0.05 (vs 0week placebo), ＊; *p*<0.05 (vs 0week RICELN) Steel's multiple comparison test,
†; p<0.05 (vs placebo) , ‡; *p*<0.01 (vs placebo) Mann-Whitney U test

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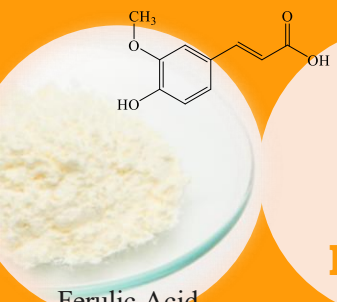
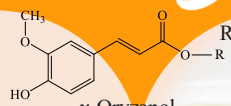


Ferulic Acid

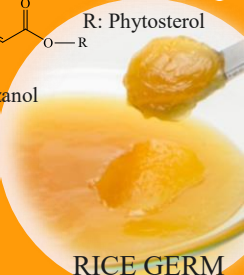
Sun Care

Ferulic Acid & RICE GERM OIL GX-N



γ-Oryzanol

R: Phytosterol



RICE GERM OIL GX-N

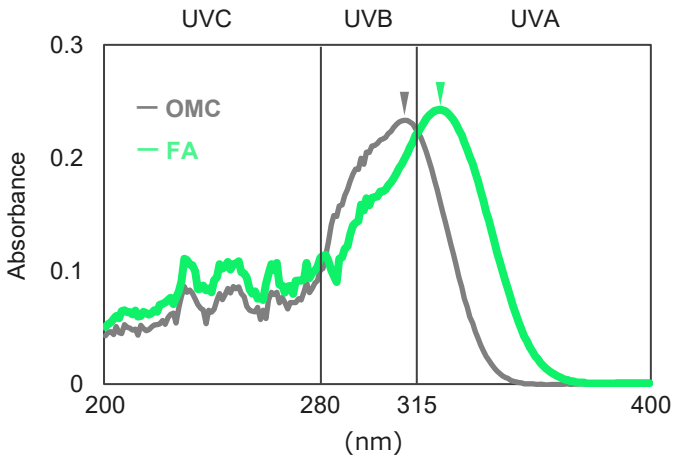
Ferulic Acid (FA)

INCI: Ferulic Acid

- UV absorption - I
- Suppression of Melanin Production - II

I. UV absorption

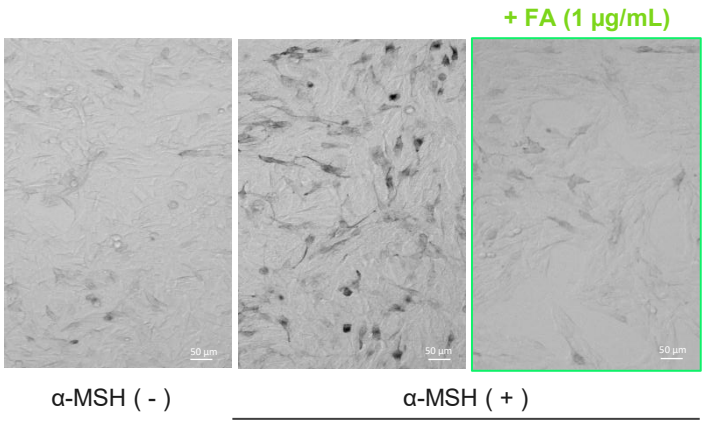
Ferulic acid (FA) or ethyl-hexyl-methoxycinnamate (OMC) was dissolved in ethanol at a concentration of 1 mg/100 mL, and the absorbance at each wavelength was measured.



II. Suppression of Melanin

Mouse melanoma cells (B16) were cultured in medium containing (or not containing) α-MSH*. Ferulic acid was then added, and the cells were cultured for 72 hours.

*α-MSH : melanocyte-stimulating hormone



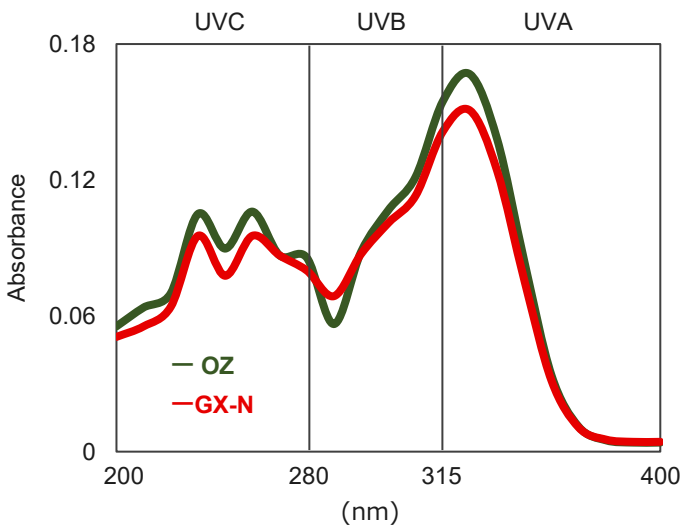
RICE GERM OIL GX-N (GX-N)

INCI: Oryza Sativa (Rice) Germ Oil

- γ-Oryzanol 30%
- UV absorption - I
- SPF Booster - II

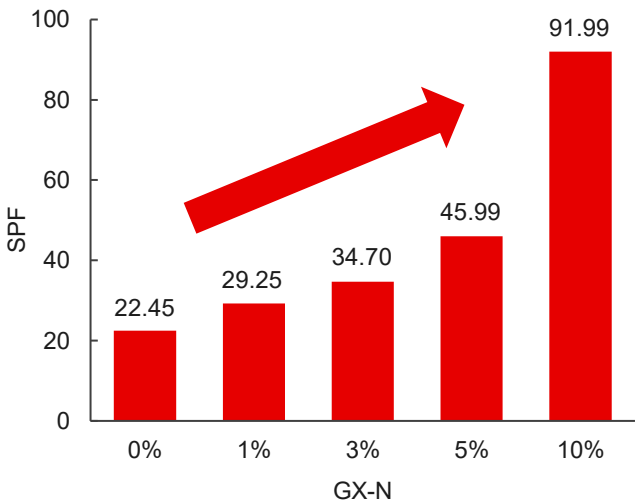
I. UV absorption

The UV absorption spectrum of 1mg γ-oryzanol(OZ) and 3mg GX-N that dissolved into 100 mL of 2-propanol



II. SPF Booster

GX-N was added to a sunscreen formulation containing zinc oxide (8.4%) and titanium dioxide (3.5%) and measured with an SPF analyzer.



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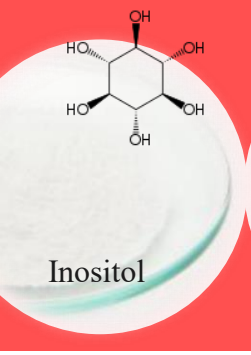
Hair Care

Inositol & RICE BRAN OIL



Inositol

RICE BRAN OIL

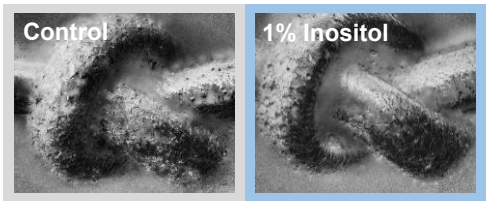
Inositol (IN)

INCI: Inositol

- Cuticle Protection & Friction Reduction - I
- Improving Hair Texture - II

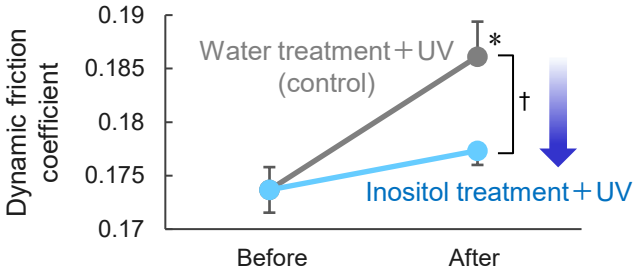
I. Cuticle Protection & Friction Reduction

A hair was soaked in water (control) or 1% inositol containing water for 10 minutes. The hair was then washed with tap water and dried. The hair was irradiated with UV-B, the cuticle was observed using a microscope, and the coefficient of dynamic friction of the hair was measured.



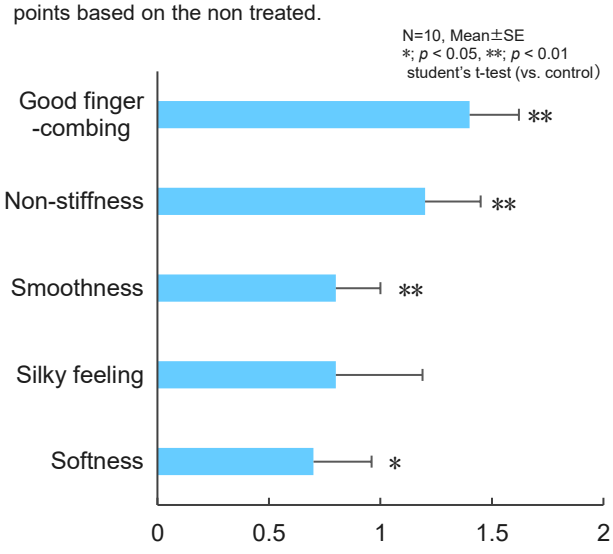
◀Cuticle image

N=4
student's t-test
∗ ; $p < 0.05$ (vs. Before)
† ; $p < 0.05$ (vs. control)



II. Improving hair texture

A hair was soaked in water (control) or 1% inositol containing water for 10 minutes. The hair was then washed with tap water and dried. The 1% inositol treated hair was scored from -3 to 3 points based on the non treated.



Rice Bran Oil (RBO)

INCI: Oryza Sativa (Rice) Bran Oil

- Preventing Frizz in Humid Conditions - I
- Improving Hair Texture vs. Olive Oil - II

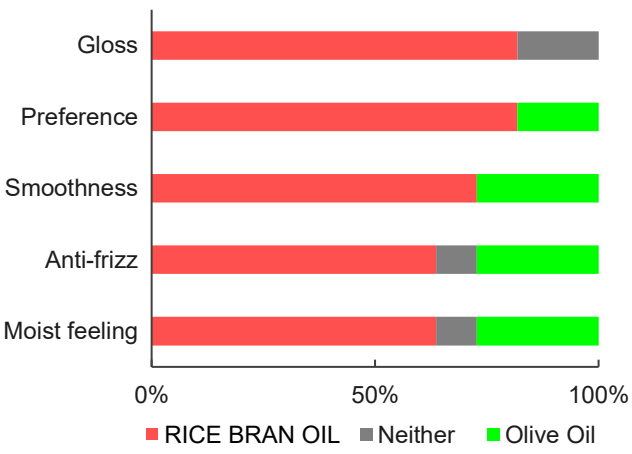
I. Preventing Frizz in Humid Conditions

Bleached hair was washed and towel dried. Rice bran oil was then applied to the entire hair and dried. The hair was photographed before and after leaving the hair at 25˚C, 80% RH for 24 hours.

RICE BRAN OIL prevents frizz in humid conditions

II. Improving Hair Texture vs. Olive Oil

Bleached hair was washed and towel dried. RICE BRAN OIL or Olive oil were then applied to the entire hair and dried. Participants (n=11) were asked to touch both hairs and compare the intensity of each item. The graph shows the percentage of respondents who answered "RICE BRAN OIL," "Olive oil," or "neither."



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RICETRIENOL

Japanese Tomei-kan concept

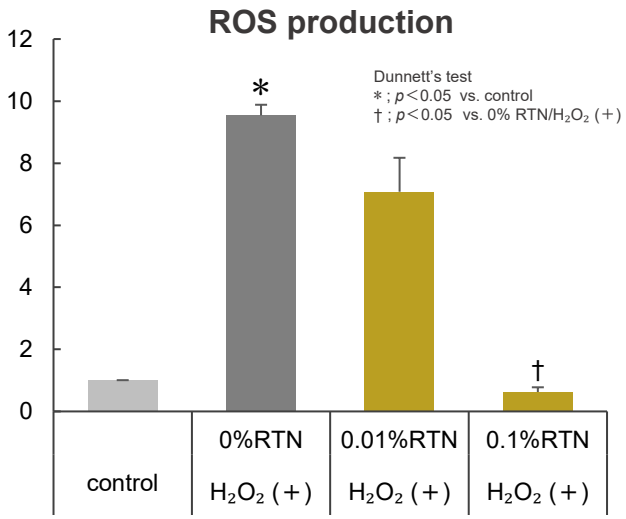
INCI : Oryza Sativa (Rice)Bran Extract

Anti-oxidant effect from Vitamin E

Vitamin E & Super Vitamin E rich oil

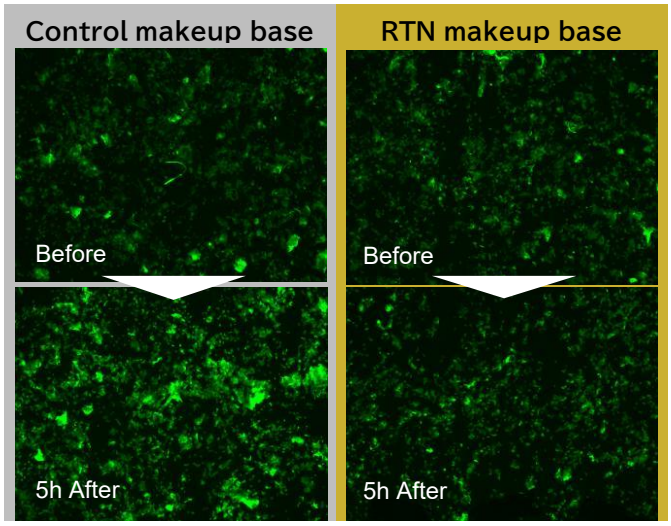
I. Suppress ROS Production

HaCaT cells were stained with a fluorescent reagent that reacts with active oxygen species and treated with RKCETRIENOL(RTN) for 1 h. The ROS production rate was calculated by correcting the fluorescence intensity with the amount of protein.



II. Carbonylation Inhibitory Effects

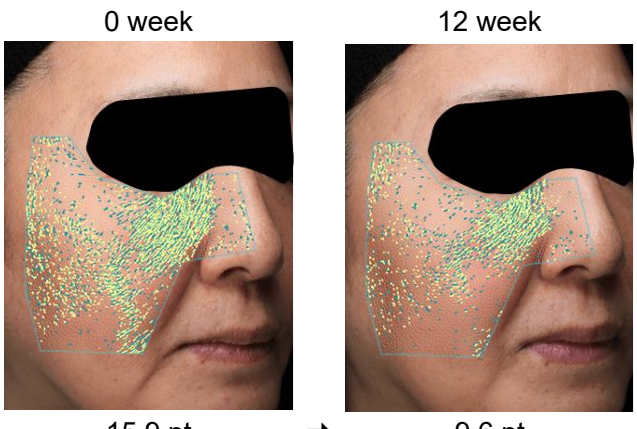
1% RTN formula or control makeup base was applied to a cleansed face. Stratum corneum was peeled from human skin (cheek and forehead) before and 5 hours after application. Fluorescence staining was performed using 5-FTSC, which reacts with carbonylated proteins.



Improving "Tomei-kan" - Makes skin clearer, smoother and more elastic

RTN 1% cream and placebo cream were applied to the skin twice daily for 12 weeks. Analysis methods: Skin condition assessment using VISIA Evolution and questionnaire survey. A VAS questionnaire was used to evaluate the subjects' skin condition and perceived effectiveness.
Subject : Healthy Women, Age : 20-50, n=22

Texture (VISIA analysis)



Tomei-Kan (Questionnaire)