



Botanical Cosmetic Raw Material

Rice Extract Koken

RICE FERMENT FILTRATE (SAKE)



Rice Extract Koken is a cosmetic ingredient made from sake brewed with rice from Mie Prefecture.

Sake made with the fermenting capabilities of malted rice and yeast contains free amino acids and organic acids known as natural moisturizing factors, and is expected to refine and condition the skin.



Applications: Lotions, essences, soaps, creams, etc.

Characteristics



Moisturizing effect

Contains amino acids that are components of natural moisturizing factor (NMF).



Skin conditioning effect

Contains fruit acids that are considered to have peeling and antioxidant effects and citric acid, which has a chelating effect.



Blood circulation improvement effect

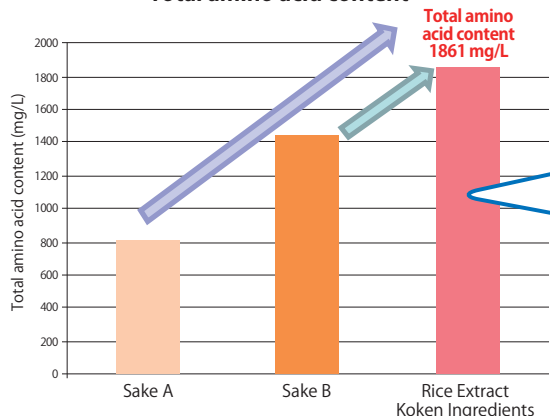
Contains alcohol that is effective for vasodilation.

Rice Extract Koken



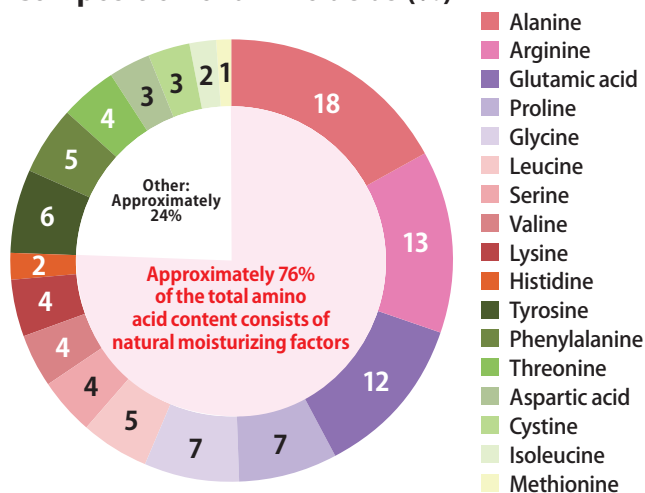
Contains “amino acids”, the skin’s innate moisturizing ingredient

Total amino acid content



The sake used as the raw ingredient for Rice Extract Koken contains more amino acids compared with other sake. Approximately 76% of the total amino acid content consists of amino acids that are natural moisturizing factors.

Composition of amino acids (%)



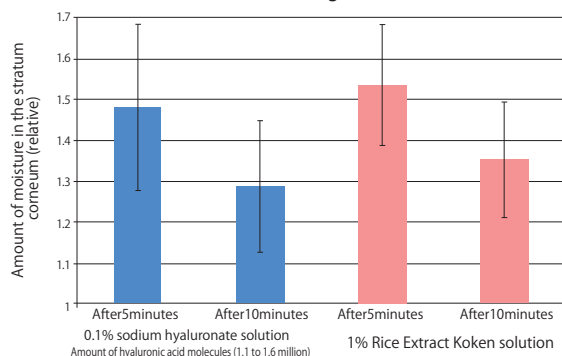
From in-house data



Moisturizing effect

After applying a sheet infused with 400 μ L of 1% Rice Extract Koken solution and 0.1% sodium hyaluronate solution, respectively, to the skin of the forearm, the amount of moisture in the stratum corneum was measured 5 minutes and 10 minutes after removing the sheet using a stratum corneum hydration meter (Corneometer CM825).

Moisturizing Test



1% Rice Extract Koken solution had the equivalent moisturizing effect as 0.1% sodium hyaluronate solution.

From in-house data



Skin conditioning components

Content of major organic acids and other components

Component*	Content (mg/L)
Lactic acid	335
Malic acid	241
Choline	167
Citric acid	59
Ornithine	32
GABA	24
Betaine	22
Uridine	21
Fumaric acid	17

Content of major sugars

Component*	Content (mg/L)
Glucose	15,480
Galactose	1,520
Fucose	210
Glucosamine	140
Fructose	110

*Components excluding preservatives, water, and alcohol

In addition to sugars such as glucose and galactose produced by the fermentation of malted rice and yeast, Rice Extract Koken also contains organic acids such as lactic acid and malic acid and various other components. The alcohol concentration of Rice Extract Koken is approximately 18%.

From in-house data

Safety evaluation

Human repeated insult patch test (HRIPT): Negative

(tested using a 10-fold diluted solution)

Product No.	Product name	INCI name	Other ingredient*	Package
RFF-111	Rice Extract Koken MPN	RICE FERMENT FILTRATE	SODIUM METHYL PARABEN	1kg
RFF-121	Rice Extract Koken BG	(SAKE)	BUTYLENE GLYCOL (DERIVED FROM PLANTS)	1kg

*Please contact us at the address shown below if you have requests.

The content in this document is prepared based on documents and experimental data available at the time; however, the content does not comprise a guarantee. Please note in advance that the content described in this document may be changed depending on the circumstances. All intellectual property rights including copyrights and design rights of data described here and related documents belong to Koken Co., Ltd., and any unauthorized reproduction, reprinting or citation is strictly prohibited. Please refer to the MSDS of the product in advance for the safe use of these ingredients. In addition, care should be taken to comply with regulations in each country on expressions concerning consumer products.

KOKEN CO., LTD.

www.kokenmpc.co.jp

1-4-14 Koraku, Bunkyo-ku, Tokyo 112-0004, Japan Tel: 81-3-3816-3562 Fax: 81-3-3816-3582 E-mail: customer@kokenmpc.co.jp

2017.3 C-1-890-1-02-01