

Raw material exclusively for cosmetic manufacturing

## Botanical Cosmetic Raw Material

LaFrance Koken

PYRUS COMMUNIS(PEAR) TWIG EXTRACT

LaFrance Koken is a cosmetic ingredient of plant extract extracted from twigs of La France from Yamagata Prefecture.



Applications: Lotions, essences, creams, etc.

### **Characteristics**



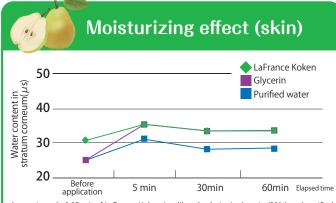
Moisturizing effect Botanical ingredient which has equivalent

moisturizing effect as glycerin.

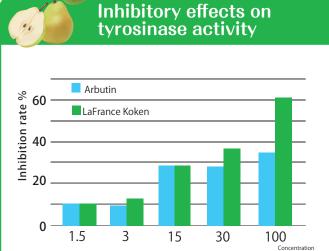
### Anti-aging effect

Has an effect to remove reactive oxygen, which is considered to cause skin aging.

# LaFrance Koken



Approximately 0.05 mL of LaFrance Koken (undiluted solution), glycerin (20%) and purified water were separately applied to the skin on the inner side of the forearm, and the water content of the stratum corneum (= keratin moisture) prior to application and from 5 to 60 minutes after wiping off the solutions was measured using a keratin moisture meter (Corneometer\*CM825MP) (N=12, room temperature 19-23° C, humidity 40-48%). The results showed that keratin moisture was approximately the same for LaFrance Koken and glycerin from 5 to 60 minutes after wiping off, indicating that LaFrance Koken provides an excellent moisturizing effect.



The inhibitory effect of LaFrance Koken on tyrosinase activity, a melanin production facilitator, has been analyzed. LaFrance Koken containing 100mM arbutin was found to inhibit >about 60% of tyrosinase activity.

From in-house data



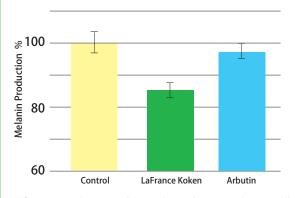
# Analysis of antioxidant effects

Arbutin

Antioxidant effect was evaluated by singlet oxygen scavenging activity assay. LaFrance Koken has twice as strong as singlet oxygen scavenging activity than arbutin.

## Inhibitory effects on melanin production

LaFrance Koken



Effects on melanin production by melanin-producing cells in human epidermis(melanocytes) have been analyzed. The inhibitory effects of the addition of 0.9% of LaFrance Koken on melanin production were confirmed to be approximately 15% higher than those of the reagent arbutin at the same concentration.

### Human patch test : Negative

| Product No. | Product Name      | INCI Name                            | Other ingredient       | Package |
|-------------|-------------------|--------------------------------------|------------------------|---------|
| LWE-121     | LaFrance Koken PE | PYRUS COMMUNIS(PEAR)<br>TWIG EXTRACT | WATER, PHENOXY ETHANOL | 1kg     |
| LWE-131     | LaFrance Koken BG |                                      | WATER, BUTYLENE GLYCOL |         |

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