



Botanical Cosmetic Raw Material

# ***LaFrance Powder Koken***

PYRUS COMMUNIS(PEAR) FRUIT



LaFrance Koken is a cosmetic raw material made by directly lyophilizing (Freeze-dried) carefully selected (maturity controlled) La France fruits from Yamagata Prefecture.



**Applications: Creams, soaps, lipsticks, etc.**

## **Characteristics**



**Enhances contraction of collagen fibers by fibroblasts**



### **Anti-aging effect**

Contains polyphenols, which have an antioxidative effect.



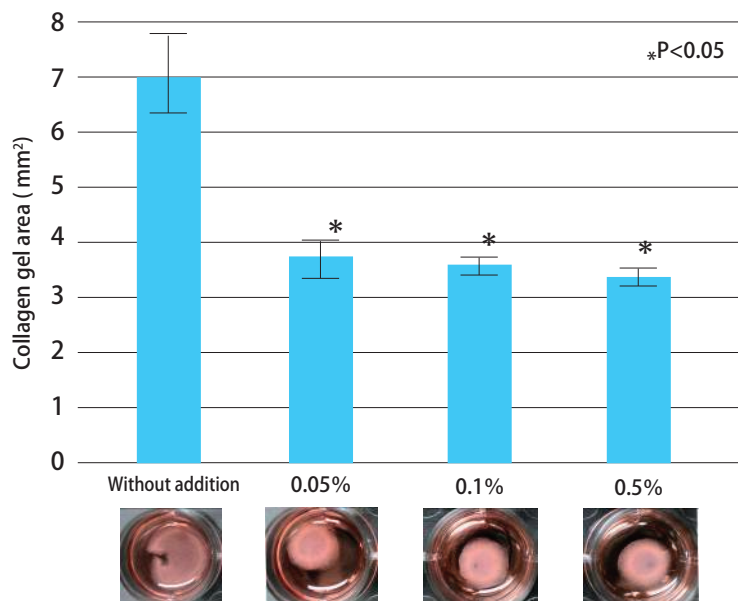
### **Relaxation effect**

Contains the characteristically sweet flavor of La France pears.

# LaFrance Powder Koken



## Anti-aging effect by LaFrance components



As for skin aging, it is known that fibroblasts from elderly people show a lower gel contraction during collagen gel contraction evaluation than those from young people. It is thus considered that the skin tension comes from the power of the fibroblasts pulling the collagen fibers.

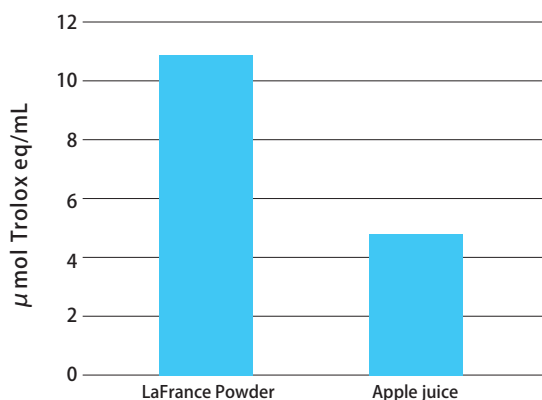
The experiment shown on the left is collagen gel contraction evaluation to evaluate the contraction activity of fibroblasts by adding LaFrance Powder suspension to collagen gel mixed with fibroblasts.

Since collagen gel contracted by adding the La France Powder suspension, it is expected that this product will have a skin sagging prevention effect.

From in-house data



## Antioxidant effect by polyphenols



Measurement of DPPH radical elimination activity (antioxidant effect). A higher antioxidant effect than apple juice, which belongs to the same Rosaceae family as LaFrance, was observed.

From in-house data



## Sweet flavor characteristic of LaFrance

	LaFrance Powder Koken	La France pulp <sup>※</sup>
Ethyl acetate	6.1 ppm	2.4 ppm
Butyl acetate	6.0 ppm	10.1 ppm
Hexyl acetate	11.4 ppm	5.9 ppm
Butanol	6.5 ppm	12.0 ppm
Hexanol	1.1 ppm	2.4 ppm
Hexanal	1.6 ppm	2.2 ppm

※Reference: Koki Tobitsuka, Nippon Nogeikagaku Kaishi, 77 (8), 762-767 (2003)

Butyl acetate and hexyl acetate, the major components of the sweet flavor of LaFrance, are contained at high concentrations.

## Safety evaluation

## Human repeated insult patch test (HRIPT): Negative

Product No.	Product name	INCI name	Other ingredients	Package
LFP-000	LaFrance Powder Koken	PYRUS COMMUNIS(PEAR) FRUIT	CYCLODEXTRIN,SUCROSE ZEA MAYS (CORN) STARCH ELAEIS GUINEENSIS (PALM) OIL	100g

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