



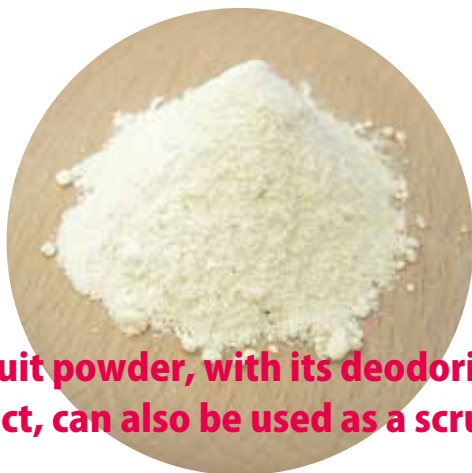
Botanical Cosmetic Raw Material

Shonai Kaki Powder Koken

DIOSPYROS KAKI FRUIT POWDER



Cosmetic raw material made by freeze-drying Shonai Kaki- Japanese persimmons grown in Shonai, Yamagata that contain tannin, which has a deodorizing effect.



The fruit powder, with its deodorizing effect, can also be used as a scrub.

Applications: soaps, skin creams, gels, etc.

Characteristics



Deodorizing effect

Contains approximately 24 mg/g of tannin, which has a deodorizing effect.



Anti-aging effect

Contains polyphenols, which have antioxidant effects.



Cell growth acceleration effect

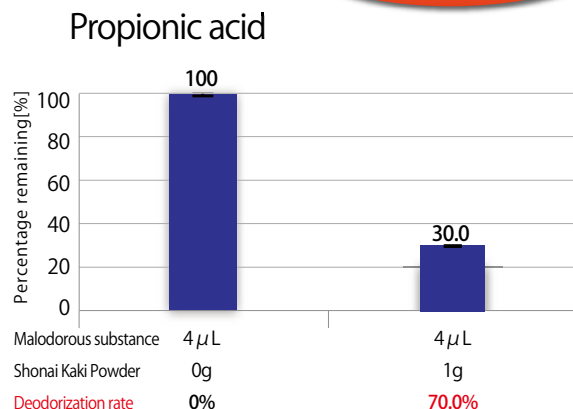
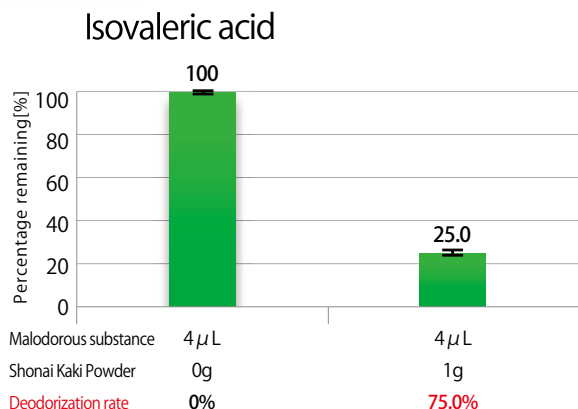
Accelerates proliferation of skin fibroblasts.

Shonai Kaki Powder Koken



Deodorizing effect of tannin

Contains approximately
24 mg/g of tannin



Drops of malodorous substances (isovaleric and propionic acid) were put into separate test tubes, glass wool inserted, and 1 g of Shonai Kaki Powder added. After heating the test tubes for a fixed period, the quantities of malodorous substances in the gas phase were determined by gas chromatography, and the percentages of substance remaining and deodorization rates calculated.

These values were compared to those for controls with no powder added. The results show a deodorizing effect of 75% for isovaleric acid and 70% for propionic acid.

● Isovaleric acid : One of the substances responsible for bad foot odor. A type of short-chain fatty acid.

● Propionic acid : One of the substances responsible for armpit odor. A type of short-chain fatty acid.

From in-house data



Contains constituents with skin beautifying and antioxidant effects

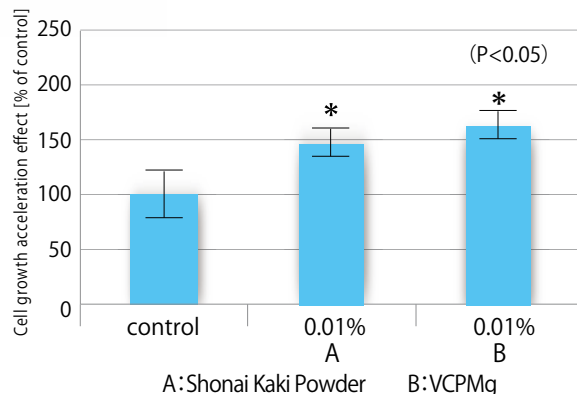
| Ingredient name | Content (μmol/g) |
|--------------------------------|------------------|
| Citrulline | 6.99 |
| Gamma-aminobutyric acid (GABA) | 2.68 |
| Epicatechin | 84.97 |
| Catechin | 63.56 |
| Epicatechin gallate | 8.74 |

The product contains: citrulline, which suppresses the production of collagen-degrading enzymes, and of inflammatory materials produced by ultraviolet rays; GABA, which activates cell growth and promotes the production of collagen; and catechin and other polyphenols with antioxidant or deodorizing effects.

From in-house data



Cell growth acceleration effect



After planting and cultivating dermal fibroblasts for 2 days, the medium was replaced with a new medium containing 0.01% of specimen. After a further 3 days of cultivation, the medium was again replaced with a new medium of the same composition. After 1 further day of cultivation, the viable cell count was determined. The product showed a cell growth acceleration effect comparable to that of magnesium ascorbyl phosphate (VCPMg), which was used as a positive control.

From in-house data

Safety evaluation

Human repeated insult patch test (HRIPT): Negative

| Product No. | Product name | INCI name | Other ingredient | Package |
|-------------|--------------------------|-----------------------------|--|---------|
| SKP-000 | Shonai Kaki Powder Koken | DIOSPYROS KAKI FRUIT POWDER | MALTODEXTRIN,SUCROSE ZEA MAYS (CORN) STARCH ELAEIS GUINEENSIS (PALM) OIL | 100g |

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