

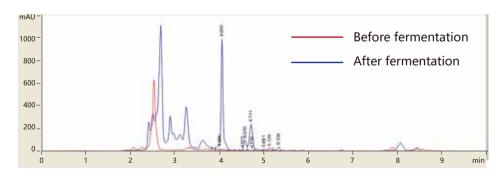


Brown rice, the complete whole grain rice, rich in dietary fibers, functional active ingredients and minerals, could improve cellular activity and immune system. BioyouthTM-Brice is developed using brown rice as the substrate and a unique yeast as fermenting strain. After fermentation, the nutrients in brown rice can be released, transformed and accumulated. Brice contains abundance of active polypeptides, amino acids and other active factors. These active factors can be quickly absorbed by the skin, increase the cell activity, repaire damaged cells, anti-aging, improve the over all skin appearance, and moisturizing.

Submerged liquid fermentation

Rich in multi-active ingredients

Significant anti-oxidant, whitening and repairing effects

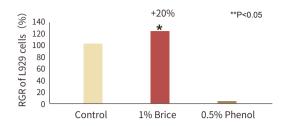


High performance liquid chromatography (HPLC) analysis on Bioyouth™-Brice

HPLC report shows that the variety of active ingredients increase sensibly, as well as their content after fermentation. Bioyouth $^{\text{TM}}$ -Brice has high effectiveness as anti-oxidant, whitening and skin care repair.

Efficacy

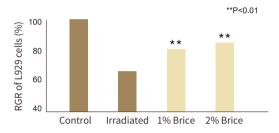
1. Increasing the cell activity



Brice can promote cell metabolism, the proliferation rate is increased by 20% with the 1% Brice.

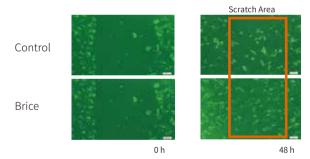
2. Repairing damaged cells

2.1 Cell damage caused by UV radiation



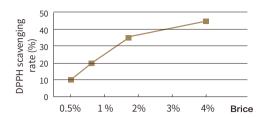
The cell proliferation rate is reduced up to 65% after UV radiation. After treatment with 2% Brice, the damaged cells proliferation rate is increased by 20% compared to the irradiated control. Therefore, Brice protects skin & cells from UV radiation.

2.2 Cell damaged by mechanical scratch



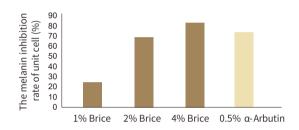
Scratch after 48 h, the cells amount when using Brice is sensibly more than control, and the cells shape is normal while is altered in the control sample. That suggests Brice has the ability to promote cell migration and recovery.

3. Anti-oxidant and delaying skin aging



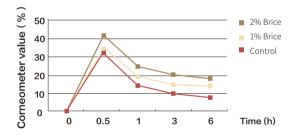
Rich in various anti-oxidant ingredients, Brice can scavenge free radicals and so it can delay the skin aging process. DPPH free radical scavenging test shows that the scavenging rate of 4% Brice is as high as 45%.

4. Significant whitening effect



Brice can help to even skin tones and improve dull skin, leave skin lustrous and whitening. The test result shows that the melanin inhibiting rate of 2% Brice is as high as 68%, which is comparable to that of 0.5% $\alpha\textsc{-}Arbutin$.

5. Moisturizing



In the process of fermentation, many kinds of NMFs (Natural Moisturizing Factors) are released. These NMFs can be absorbed by the skin more easily and rapidly. After 30 minutes application of a Brice serum (contain 2% Brice), the skin moisture content increases 12%.

INCI name: Saccharomyces/Rice ferment filtrate Applications: Cream, Emulsion, Serum, Facial Mask, and Hair Care Products etc. Recommended dosage: 0.5%-4.0%.



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