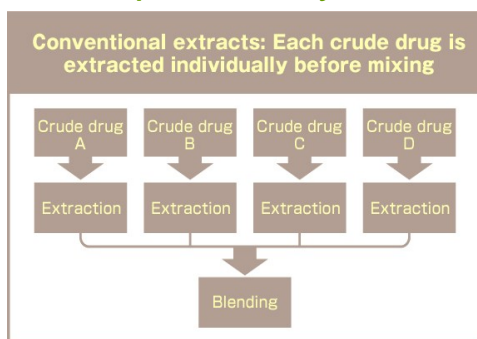


Mixed Plants Extract OG Series

Extracts from Kampo (traditional Chinese medicine) prescriptions showed amazing skin treatment effects when externally applied.



Extraction procedure for Mixed Plants Extract OG Series taking out the secret of Kampo efficacy



Mixed Plants Extract OG-1

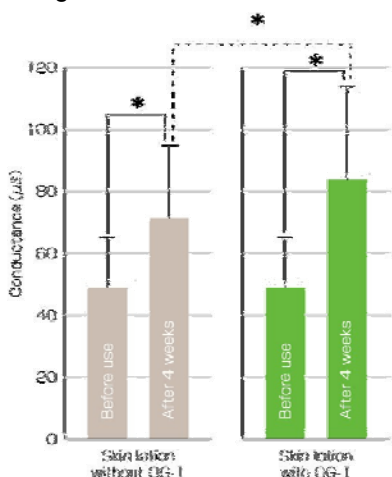
An extract of a Kampo prescription, "Unseiin", with skin moisturizing effect.

Moisturizing ★★
Anti-oxidation ★
Anti-inflammation ★

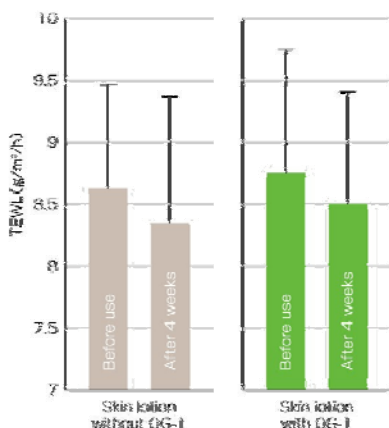
★★★·Clearly positive ★·Positive

Moisturizing

OG-1 improves skin texture significantly. Before using the moisturizer, the skin was rough due to dryness. However, after using the lotion with **OG-1** for a month, the skin visibly changed: it was smoother and better moisturized than the negative control.



Change of skin surface hydration after repeated use of lotion with OG-1



Change of transepidermal water loss (TEWL) after repeated use of lotion with OG-1



Improvement of skin texture by repeated use of lotion with OG-1

Mixed Plants Extract OG-2

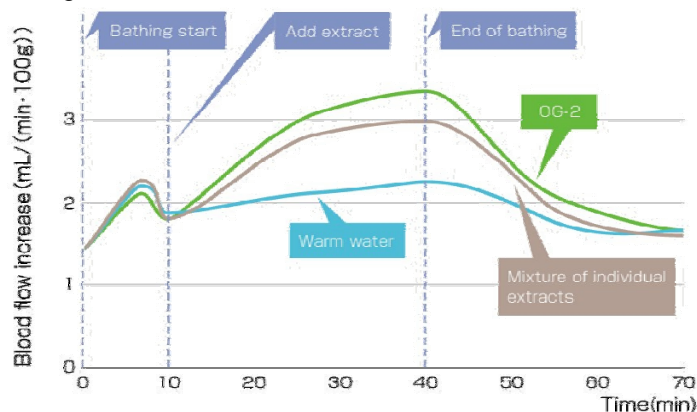
An extract of a Kampo prescription, "Shimotsuto", with blood flow increase and anti-inflammatory effects.

Moisturizing ★
 Blood Flow Increase ★★
 Anti-inflammation ★★

★★★...Clearly positive ★...Positive

Blood flow increase

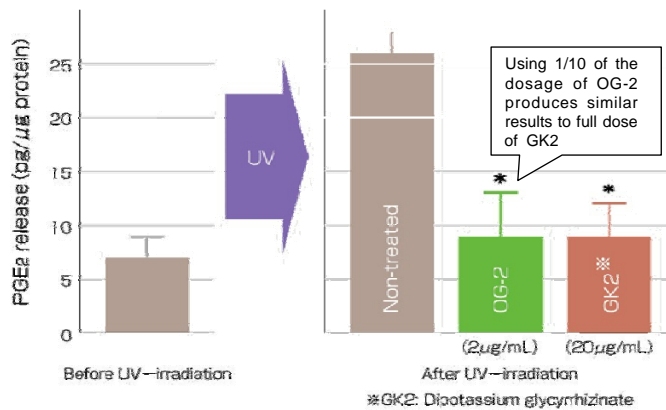
OG-2, when used in the bath by female subjects in their 20s, improved subjects' peripheral blood flow significantly. The effect was better than that of warm water alone, and better than that of a mixture of individual extracts. This indicates that OG-2 helps retain body heat longer after taking a bath.



Change of peripheral blood flow caused by the addition of OG-2 to bath water

Anti-inflammation

Prostaglandin E₂ (PGE₂) was measured as an indicator of inflammation in skin fibroblast. Normal skin releases PGE₂ through UV exposure. OG-2, meanwhile, suppressed the formation of PGE₂ after UV exposure at a level ten times smaller than that of GK2.



Inhibitory action on prostaglandin E₂ (PGE₂) caused by UV-irradiation

Mixed Plants Extract OG-3

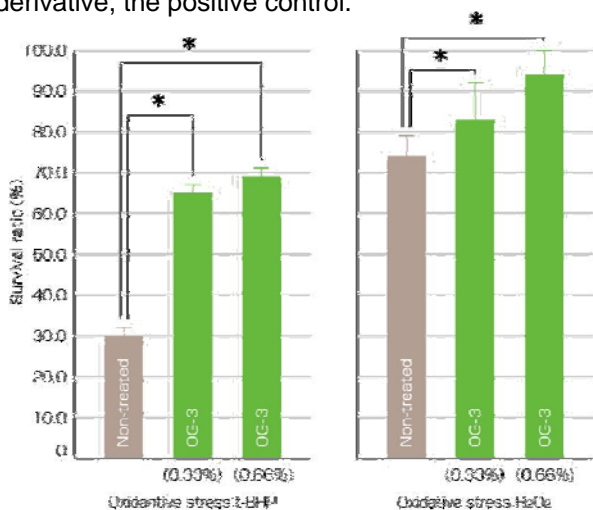
An extract of a Kampo prescription, "Orengedokuto", with anti-oxidative effects.

Moisturizing ★
 Anti-oxidation ★★

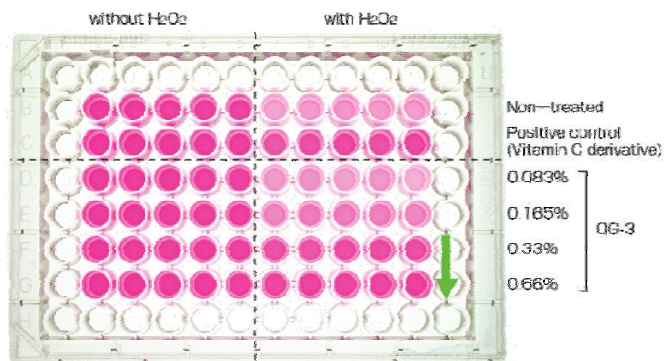
★★★...Clearly positive ★...Positive

Anti-oxidation

When normal keratinocyte is exposed to oxidative stress from peroxides, keratinocyte viability deteriorates as a general observation. It was demonstrated that OG-3, when added to the culture, helps reduce the oxidative stress of hydrogen peroxide and thus ameliorates the cell survival rate. The greater the level of OG-3, the more effective against peroxide. A desirable level of OG-3 showed the same level of stress reduction as that of a vitamin C derivative, the positive control.



Reduction of oxidative stress due to t-butyl hydroperoxide (t-BHP) and H₂O₂ in normal human keratinocyte



Reduction of oxidative stress due to H₂O₂ in normal human keratinocyte

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