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Study on Cosmeceutical Activities of Gimibang and its Application to Cosmetics

Jin-Tae Lee, Bong-Jun An, Chang-Eon Lee, Eun-Young Choi, Su-Hyun Jung, Min-Jung Jang, Soon-Ju Cheon, Jun-Ho Son, Bo-Yean Kang, Yuko Iwado, Woo-A Joe¹ and Yeun-Suck Jung²

Department of Cosmeceutical Science, Daegu Haany University

¹Department of Cosmetology Science, Nambu University

²Department of Genetic Resources Technology, Kyushu University

Gimibang is a formulation of traditional Korean medicines. It is consisted of crude ingredients from six medicinal herbs, *Paeonia japonica*, *Angelica dahurica*, *Poria cocos*, *Bombysis corpus*, *Chysanthemum boreale* and *Salvia miltiorrhiza*. In this study, We tested that cosmeceutical activities of Gimibang and possibility to applicable to cosmetics.

Ethanol extract of Gimibang showed electron donating ability of 93% at 1,000 ppm. In xanthine oxidase inhibition test, 1,000 ppm of Gimibang water extract showed an effect of 87%. Water extracts of Gimibang showed nitrite scavenging ability of 85% at 500 ppm. Water extract of Gimibang was inhibited of Nitric oxide on LPS-stimulated Raw264.7 cells in a concentration-dependent. Through the test of growth inhibition ability for melanoma B16F10, Gimibang water extract showed growth inhibition rate of 52% at 1,000 ppm.

By confirming the stability at formulation of emulsion containing Gimibang, we can't find any problems such as changes in color and separation of phase. And pH of emulsion containing Gimibang water extract did not change more than one month. The viscosity of emulsion which contains the Gimibang of high concentration was reduced. Gimibang does not make bad for the stability of the emulsion influence.

According to the test results, we find Gimibang applicable in the cosmetic industry.