

Effect of Rice Vinegar Containing Monascus-Fermented Soybean on Cosmeceutical Functionality

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Abstract : A cosmeceutical is a cosmetic product the active ingredient of which is meant to have a beneficial physiological effect resulting from an enhanced pharmacological action when compared to an inert cosmetic. Cosmeceutical potentials of unpolished rice vinegars containing different amount of Monascus-fermented soybean powder (soy-koji) were investigated. Four different vinegar types were prepared using 0, 10, 30, and 50% soy-koji addition. Soy-koji vinegar showed stronger cosmeceutical properties, in terms of tyrosinase and elastase inhibitory activities as well as antioxidant capacities than unpolished rice vinegars ($P < 0.05$). The bioactive effects of soy koji vinegar increased with the increased concentrations of total phenolics and isoflavone aglycones ($P < 0.05$). Results indicate that unpolished rice vinegar supplemented with soy-koji can be an efficient strategy to improve bioactivities in vinegar with associated enhancement of cosmeceutical functionality.

Keywords : cosmeceutical potentials, isoflavone aglycone, soy-koji vinegar, Monascus sp.

Conference Title : ICAFBNH 2016 : International Conference on Agrilife, Food, Beverage, Nutrition and Health

Conference Location : Melbourne, Australia

Conference Dates : February 04-05, 2016