

Enzymatic Stabilization and Functionarization of Natural-Bioactive Compounds as the Cosmetic Materials

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Kojic acid, β -thujaplicin, and p-aminobenzoic acid were glucosylated to their monoglucosides by UDP-glucosyltransferase reaction. Arbutin and polyphenol glucosides (naturally occurring plant pigments) were acylated with aromatic acids to their acylated forms by lipase or acyltransferase reactions. As the results, further stabilization and functionarization of the natural-bioactive compounds as the cosmetic materials has been achieved by the enzymatic-modification method.