



Dried herbs powder from various plant materials

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Nowadays, the interest in skincare has become more intensive, and the trend of using natural materials in cosmetic products is notably on the rise due to their effectiveness and safety.

Generally, various herbal plants have been widely consumed as food, drugs, and complementary or alternative medicines according to their beneficial biological activities. Additionally, natural extracts from herbal plants have been used in a variety of industrial markets, including the food, pharmaceutical, and chemical industries. The diversity of chemical

constituents in herbal plants

has

led to a variety of biological activities.

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arge number of herbal plants have been

evaluated

for their chemical

constituents and biological activities. However, the biological effects of some herbal plant extract

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are

still unknown, especially

those

related to

topical applications.

A recent study investigated and compared the antioxidant, anti-tyrosinase, anti-aging, and anti-inflammatory activities of 16 herbal extracts for topical application in cosmetic/cosmeceutical products.

To do so, herbal plant materials were extracted by infusion in boiled water for 15 min. The total phenolic content and total flavonoid content of each extract were investigated by the Folin-Ciocalteu and aluminum chloride methods, respectively. Antioxidant activities were investigated using 2,2'-diphenyl-1-picrylhydrazyl and a ferric reducing antioxidant power assay. Anti-tyrosinase and anti-aging activities were investigated using an in vitro enzymatic-spectrophotometric method. Anti-inflammatory activities were investigated using an enzyme-linked immunosorbent assay.

Interestingly, their data showed that:

- The *Stevia rebaudiana* extract has the most significant levels of both phenols and flavonoids.
- The *S. rebaudiana*, *Rosa damascena*, and *Phyllanthus emblica* extracts possessed the most significant antioxidant activities and a promising whitening effect with moderate anti-tyrosinase activities.
- The *Echinacea purpurea* extract possessed the most significant anti-collagenase, anti-elastase, and anti-hyaluronidase activity.
- The *Morus alba* extract possessed the most significant anti-inflammatory activity since it could inhibit the secretion of interleukin-6 and tumor necrosis factor- α .

Overall, these herbal extracts have promising skin benefits and have potential for use as active ingredients in cosmetic/cosmeceutical products.

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