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... The tyrosinase inhibitory activity test using the dopachrome method, with ascorbic acid as a reference standard, was modified from the research reports of Masuda et al. [17], Özer et al. [18], and Srisuksomwong et al. [19]. The process begins with the preparation of a 0.067 M sodium phosphate buffer solution at pH 6.8. ...

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... The stability of the T. stans skincare product was conducted through long-term and accelerated studies according to Srisuksomwong et al. [30], with minor modifications. In the long-term stability assessment, the product was stored under various conditions: at ambient temperature, 4 °C in a refrigerator, and 45 °C in a hot-air oven. ...

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... [73] Inhibiting tyrosinase activity can help to reduce the production of melanin, which can be beneficial in the treatment of hyperpigmentation disorders such as age spots, freckles, and melasma. [74, 75] In the present study, ethanolic extract from the leaves of C. carandas exhibited significant anti-tyrosinase activity with the value of 45.69 ± 0.7 mg KAE/g extract (Table 2) which was comparable with previous studies as ethyl extract of leaves showed the anti-tyrosinase activity with the value of $47.7 \pm 7.1\%$ (Neimkhun, 2021 #95). In fact, several previous studies on fruit and root extracts of C. carandas declared it as a potent inhibitor of tyrosinase with 70-95% inhibition values, [11,37,40] however, in our study, we investigated leaf extract and the results are substantiated by the published data. ...

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Analysis of Volatile Organic Compounds, Antioxidant, Tyrosinase Inhibitory, and Antimicrobial Activities of Essential Oils from Citronella Grass and Kaffir Lime

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P Srisuksomwong, L Kaenhin and L Mungmai. Collagenase and tyrosinase inhibitory activities and stability of facial cream formulation containing cashew leaf extract. *Cosmetics* 2023; 10(1), 17.

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The Potential of *Tecoma stans* (Linn.) Flower Extract as a Natural Antioxidant and Anti-Aging Agent for Skin Care Products

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Abstract
Tecoma stans belongs to the Bignoniaceae family and possesses various pharmacological activities, including antimicrobial, anti-inflammatory, antifungal, antioxidant, and wound-healing activities. Although numerous studies have highlighted the beneficial effects of *T. stans* extracts, the impacts of different solvents on its biological activities, such as its antioxidant and anti-aging effects, have not been fully explored. This study aimed to investigate the potential of *T. stans* flower extract as a natural antioxidant and anti-aging agent for skin care products. The extract was prepared using different solvents (water, ethanol, and methanol) and evaluated for its antioxidant and anti-aging activities. The results showed that the ethanol extract exhibited the highest antioxidant activity, while the water extract showed the most significant anti-aging effects. These findings suggest that the ethanol extract of *T. stans* flowers may be a promising natural ingredient for skin care products.

Abstract
Introduction
Materials and Methods
Results and Discussion
Conclusions
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Conflicts of Interest
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