

ABSTRACT

Natural ingredients derived from plants have been more commonly implemented in cosmetics since they can be a 'greener' and 'safer' alternative and consumers want to avoid several ingredients that can cause skin disorders, including fragrances, parabens, phthalates, and many more. *Calophyllum inophyllum* is a plant whose oil is commonly being utilized in cosmetics. Its utilization is due to its beneficial properties like antibacterial, antioxidant, anti-inflammatory, and wound healing activities. The oil was fractionated with absolute ethanol to overcome some drawbacks on its application. Phytochemical screening was performed to detect the appearance of compounds in the plants in which quinones, tannins, and alkaloids were detected. Moreover, the total flavonoid content and phenolic content were observed. Total flavonoid content was 6.4 mg QE/g oils, while total phenolic content was 25.1 mg GAE/g oil. LC-MS/MS was used to identify the flavonoids present in the oil in which calophyllolide, inophyllum B, inophyllum C, inophyllum E, and calophyllic acid were detected.

Key words : *Calophyllum inophyllum*, flavonoids, calophyllolide, wound healing, natural