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Formulation and evaluation of gels containing coconut kernel extract for topical application

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Highlights

- Ethanolic and aqueous extracts of coconut kernels were composed of phenolic compounds exhibiting antioxidant activities as determined using DPPH and FRAP methods.
- An aqueous extract (TC06) was selected for the topical preparation of a hydroalcoholic gel due to its nontoxicity, water solubility, and chemical constituents.
- The hydroalcoholic gel composed of TC06 extract, Carbopol Ultrez 21, ethanol, and triethanolamine appeared to be a suitable formulation due to its physicochemical characteristics and stability.

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