

Hand-sanitizer containing natural extracts

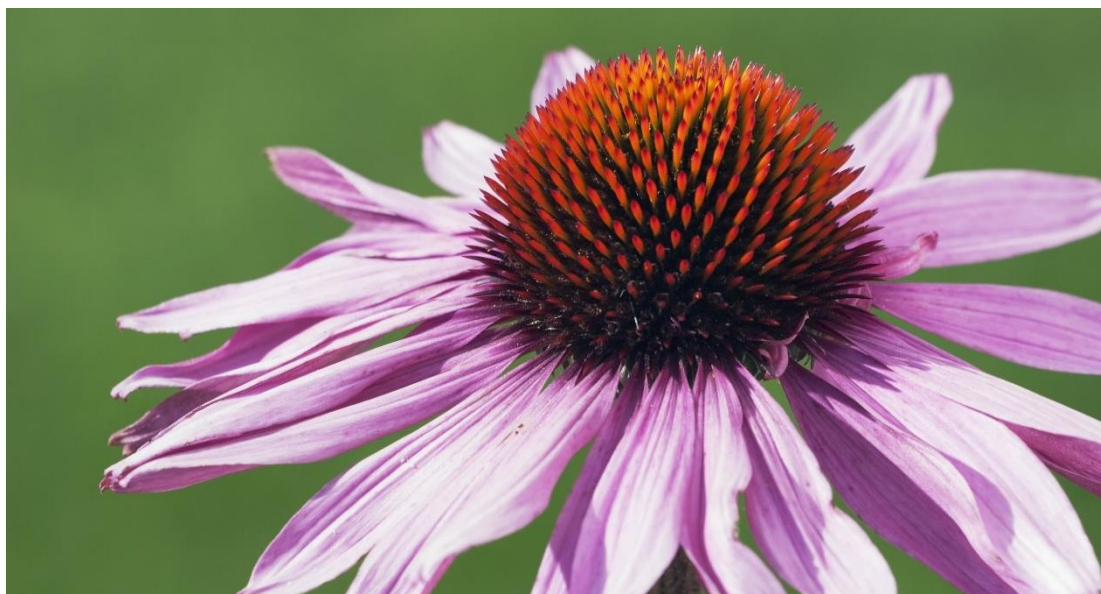
Keywords hand-sanitizer, plant-based origin, natural active pharmaceutical ingredient

Nowadays, the demand for natural, plant-based preparations is increasing. The aim of our work was to produce a semi-solid composition with an active pharmaceutical ingredient of natural origin which in addition to its favorable technological properties and applicability, can be used effectively to sanitize the hand according to European Standards.

In the first phase of the work, we designed a gel capable of delivering the components responsible for antimicrobial activity at appropriate concentrations during use without leaving a sticky or tacky residue after absorption. After formulation, examination and physicochemical tests were conducted in accordance with the applicable regulations and guidelines. Next, the evaluation of bactericidal activity was performed. The effect of the prepared gel on the resident bacterial flora of the hand skin and hygiene were monitored by swab sampling for microbiological testing.

Our results show that the physicochemical stability of the formulation appears promising. Moreover, it has good technological properties and applicability and has been proven to be effective against the microorganisms tested (*Staphylococcus epidermidis*, *Staphylococcus aureus* and *Candida albicans* among others). Results suggest that the gel can be used as an adjuvant hand-sanitizer in basic health care. It is easy and fast to use, making it more convenient to sanitize the hand of the health care personnel, for example, between two patient examinations or drug administrations.

BRIEF DESCRIPTION



We are seeking for: commercial partners, cooperation, license partners

IP status Know-how. The disclosed method and technology is fully owned by the University of Pécs.

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