EMULGEL FORMULATION OF ESSENTIAL OIL OF
*Cyperus rotundus* RHIZOME

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ABSTRACT

A research about emulgel formulation from essential oil of nut-grass rhizome (*Cyperus rotundus* L.) using 3 concentration of essential oils of nut-grass rhizome of 3%, 5% and 7% (F1, F2, F3) has been done. This study aimed to see if the nut-grass rhizome essential oils can be formulated in emulgel. In the manufacture emulgel of essential oils nut-grass rhizome (*Cyperus rotundus* L.) using a HPMC gel base and a base of emulsions such as tween 80 and span 80, the essential oil was mixed in the oil phase of the emulsion then homogenized and produce a preparation of emulgel. The evaluation of emulgel formula include organoleptic, homogeneity, particle size, stability, pH, dispersive, irritation test and the type of emulsion. Formula emulgel rhizome essential oils sedges physically and chemically stable in all concentrations.

Keywords: emulgel, *Cyperus rotundus* L., essential oils