ABSTRACT

ANTIIINFLAMATORY ACTIVITY OF \textit{p}-METHOXYCINNAMIC ACID-LOADED AS SOLID LIPID NANOPARTICLES (SLN) WITH CARBOMER ETD 2020 GEL BASE

(SLN System – Cethyl Alcohol (10%) – Tween (12%) – Propilenglikol(20%))

Intan Primaning Tyas

The research objective to investigate effect of Solid lipid nanoparticles (SLN) system on \textit{p}-Methoxycinnamic acid was proposed to have an antiinflammatory activity. Solid lipid nanoparticles (SLN) was greatly investigated recently as a new drug delivery system. SLN had several benefits as a topical drug carrier. The research consist of organoleptic, pH, antiinflammatory effect. The antiinflammatory effect of Solid Lipid Nanoparticles were compared with Diclofenac Na gel on carragenan induced paw edema in rats. Antiinflamatory activity test showed that antiinflammatory activity of SLN system on APMS did not gave signicant differences compared to APMS without SLN system.

Keyword (s): antiinflammatory, \textit{p}-Methoxycinnamic acid, Solid lipid nanoparticles