

**INFLUENCE OF DIFFERENT PREPARATION METHOD  
LIPOSOME OF ENTRAPMENT EFFICIENCY KAEMPFERIA  
GALANGA L EXTRACT ON LIPOSOME**

Liposomes are microparticulate lipoidal vesicles which are under extensive investigation as drug carriers for improving the delivery of therapeutic agents. Bioavailability of liposom drugs increased by increasing entrapment efficiency. Liposome preparation method is more important to determine entrapment efficiency of liposome. Liposome preparation method affected both liposome size and drug loading capacity which will take effect of entrapment efficiency. The purpose of this research was to determine a suitable method to encapsulate *Kaempferia galanga L* extracts in liposome. Liposomes were prepared with different techniques, thin layer evaporation and ethanol injection. Drug entrapment efficiency was determined by dialysis method. Entrapment efficiency of liposome prepared by thin layer evaporation has 52,40% and particle size 1550 nm. whereas liposome prepared by ethanol injection has 36,79% and 814 nm of particle size. Therefore, the most suitable liposome preparation method can be suitably selected on the basis of drug encapsulation efficiency.

**Keyword (s)** : Liposome, Entrapment Efficiency, Preparation Method Thinfilm and Injeksi, Particle Size, Thin Layer Chromatography, Dialysis.

**DAFTAR ISI**