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**SKRIPSI**

**ERLIANTI FANG TJIE**

**PENGARUH KADAR PVP K-90 TERHADAP  
LAJU DISOLUSI ANDROGRAFOLIDA DALAM  
DISPERSI PADAT ANDROGRAFOLIDA-PVP K-90 YANG  
DIADSORPSIKAN PADA LAKTOSA SEMBUR KERING**

**MILIK  
PERPUSTAKAAN  
UNIVERSITAS AIRLANGGA  
SURABAYA**



**FAKULTAS FARMASI UNIVERSITAS AIRLANGGA  
BAGIAN FARMASETIKA  
SURABAYA**

**2004**

**Lembar Pengesahan**

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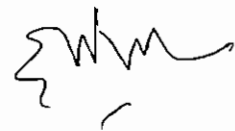
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## ABSTRACT

The influence of polyvinylpyrrolidone K-90 (PVP K-90) to dissolution rate of Andrographolide in Andrographolide – PVP K-90 solid dispersion system absorbed to spray dried lactose was observed in this research.

Solid dispersions of Andrographolide – PVP K-90 were prepared by solvent method. Dissolution testing were applied to solid dispersions of Andrographolide – PVP K-90 absorbed to spray dried lactose with ratio 1:1:5, 1:3:5 and 1:5:5, physical mixtures of andrographolide – PVP K-90 – spray dried lactose and Andrographolide.

The solid dispersions of Andrographolide – PVP K-90 – spray dried lactose prepared in this study were found to have higher dissolution rates compared to Andrographolide and physical mixtures. It caused by the reduction of Andrographolide's particle size and also by the wettability and solubility properties of PVP K-90. The increasing of dissolution rates was a function of the ratio of Andrographolide – PVP K-90 used. It was found that solid dispersion of Andrographolide – PVP K-90 – spray dried lactose (1:5:5) is better than 1:3:5 and 1:1:5.

Key words : Andrographolide, PVP K-90, Spray Dried Lactose, Solid Dispersion and Dissolution rate