

- HYDROPHOBIC SURFACES  
- STAPHYLOCOCCUS AUREUS

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**SKRIPSI**

**DEWI KARTINA**

**STUDI HUBUNGAN ANTARA NILAI LIPOFILITAS ( $R_m$ )  
TURUNAN N-BENZOIL SEFALEKSIN DENGAN  
AKTIVITAS ANTIBAKTERI TERHADAP  
*Staphylococcus aureus* ATCC 25923**

MILIK  
PERPUSTAKAAN  
UNIVERSITAS AIRLANGGA  
SURABAYA



**FAKULTAS FARMASI UNIVERSITAS AIRLANGGA  
BAGIAN KIMIA FARMASI  
SURABAYA  
2004**

**Lembar Pengesahan**

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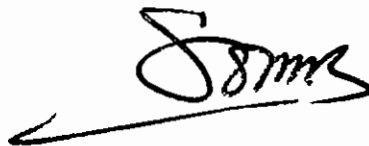
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Dibuat untuk memenuhi syarat mencapai gelar Sarjana Farmasi pada  
Fakultas Farmasi Universitas Airlangga  
2004

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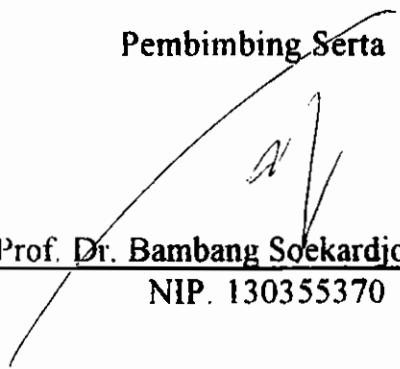
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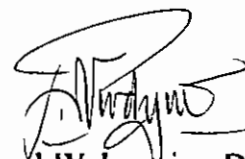
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## ABSTRACT

This research aim to to look for the relationship among lipophylic of *N*-benzoil sefaleksin derivates and biologic activity to *Staphylococcus aureus* ATCC 25923. Determination of lipophylic used *R<sub>m</sub>* (Retention Modified). Assess *R<sub>m</sub>* was gotten by Reverse Phase Thin Layer Chromatography (RPTLC) method on silica gel 60 GF 254 as stationer phase which has been impregnated by *n*-oktanol 10% in ether and it was eluated with buffer of phosphate pH 7,4 and acetone with comparison 3 : 1 and UV ray to see the stain. The solution tests, 1000 ppm, were oafished at stationer phase by using capillary pipe as much 5 µl. Then it were eluated with move phase till reach determined height.

Microbiological activity test was done to *Staphylococcus aureus* ATCC 25923 with diffusion method by metal cylinder. Microbiological activity test used suspension of bacteri as much 150 µl and the solution test 1000 ppm as much 200 µl. Then it was incubated for 24 hours.

It researched *N*-benzoil cephalixin, *N*-4-fluorobenzoil cephalixin, *N*-4-nitrobenzoil cephalixin, *N*-4-metoksibenzoil cephalixin and *N*-4-trifluorometilbenzoil cephalixin.

The result of this research was there is no relation among lipofilitas (*R<sub>m</sub>*) of *N*-benzoil cephalixin derivates with these antibacteri activity to *Staphylococcus aureus* ATCC 25923.

Keywords: *N*-benzoil cephalixin derivates, lipophylic, *R<sub>m</sub>*, activity corelation, *Staphylococcus aureus* ATCC 25923.