SKRIPSI

DWI YUNYATHI

HUBUNGAN ANTARA KADAR SENYAWA AKTIF N-(2,4-DIKLOROBENZOIL)SEFALEKSIN (AKIBAT PEMANASAN) DENGAN AKTIVITAS ANTIBAKTERI TERHADAP *STAPHYLOCOCCUS AUREUS* ATCC 25923

FAKULTAS FARMASI UNIVERSITAS AIRLANGGA

BAGIAN KIMIA FARMASI

SURABAYA

2004

Lembar Pengesahan

HUBUNGAN ANTARA KADAR SENYAWA AKTIF *N*-(2,4-DIKLOROBENZOIL)SEFALEKSIN (AKIBAT PEMANASAN) DENGAN AKTIVITAS ANTIBAKTERI TERHADAP *STAPHYLOCOCCUS AUREUS* ATCC 25923

SKRIPSI

DIBUAT UNTUK MEMENUHI SYARAT MENCAPAI GELAR SARJANA FARMASI PADA FAKULTAS FARMASI UNIVERSITAS AIRLANGGA SURABAYA
2004

Oleh :

<u>**DWI YUNYATHI**</u>
Nim : 050012240

DISETUJUI OLEH :

<u>**Drs. Bambang Tri Purwanto, MS**</u>
Pembimbing Utama

<u>**Prof. Dr. H. Purwanto**</u>
Pembimbing Serta I

<u>**Drs. Robby Sondakh, MS, Apt**</u>
Pembimbing Serta II

ABSTRACT

A research with the objective to explain relation between the level of active compound *N*-(2,4-dichlorobenzoyl)cephalexin (with heat treatment) by iodometry with inhibition area diameter to *Staphylococcus aureus* ATCC 25923 has been done.

Determination the level of active compound was done chemically and microbiologically to determine the existence of linear relation between both. Determination the level of active compound chemically was done with iodometric method. While microbiologically was done with cylinder diffusion method using Antibiotika-1 media.

Result of data analysis and research use regression test at $\alpha = 0,05$ showing the existence of significant linear relation between the level of active compound *N*-(2,4-dichlorobenzoyl)cephalexin by iodometry (variable x) with inhibition area diameter to *Staphylococcus aureus* ATCC 25923 (variable y). This relation is expressed with the equation $Y = 0,177 X + 6,769$ (n = 5, r = 0,973, F = 52,996).

Keyword :

N-(2,4-dichlorobenzoyl)cephalexin, determination the level of active compound, antibacterial activity.