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SKRIPSI

MADE ROSIANA KUSMALANTARI

**STUDI HUBUNGAN ANTARA KADAR SENYAWA
AKTIF N-(3,4-DIKLOROBENZOIL)SEFALEKSIN
(SECARA IODOMETRI) DENGAN
AKTIVITAS ANTIBAKTERI TERHADAP
Staphylococcus aureus ATCC 25923**



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

2004

**MILIK
PERPUSTAKAAN
UNIVERSITAS AIRLANGGA
SURABAYA**

Lembar Pengesahan

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**DIBUAT UNTUK MEMENUHI SYARAT MENCAPAI GELAR SARJANA
FARMASI PADA FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
SURABAYA
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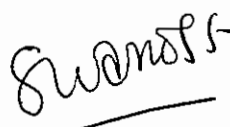
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**Relation Study between the Level of Active Compound
N-(3,4-dichlorobenzoyl)cephalexin (by Iodometry)
with Antibacterial Activity to *Staphylococcus aureus* ATCC 25923**

ABSTRACT

Research as a mean to explain relation between the level of active compound *N*-(3,4-dichlorobenzoyl)cephalexin by iodometry with inhibition area diameter to *Staphylococcus aureus* ATCC 25923 has been done.

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

Result of data analysis and research use regresi test at $\alpha = 0,05$ showing the existence of significant linear relation between *N*-(3,4-dichlorobenzoyl)cephalexin rate by iodometri (variable x) and microbiologically (variable y). This relation is expressed with the equation $y = 0,186 x + 9,335$ ($n = 5$; $r = 0,961$; $F = 35,995$) for the *Staphylococcus aureus* ATCC 25923.

Keyword :

N-(3,4-dichlorobenzoyl)cephalexin,
determination the level of active compound,
antibacterial activity