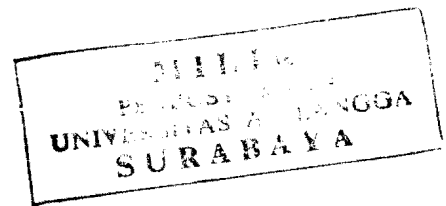


**UJI TOKSISITAS INSEKTISIDA BASUDIN 60 EC  
TERHADAP LAJU PERTUMBUHAN POPULASI  
*Paramecium caudatum* Ehrenberg**

**SKRIPSI**



**TEGUH EKO WASKITO**

**JURUSAN BIOLOGI  
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM  
UNIVERSITAS AIRLANGGA  
S U R A B A Y A  
1999**

Dosen Pembimbing I,

Dosen Pembimbing II,

Ditetapkan oleh :

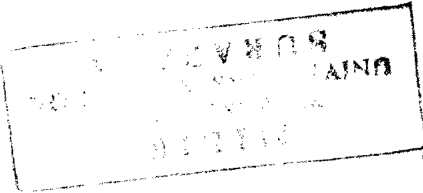
Tanggal Lulus : 26 Juli 1999

**TEGUH EKO WASKITO**  
NIM. 089411193

Oleh :

Sebagai Salah Satu Syarat Untuk  
Memperoleh Gelar Sarjana Sains Bidang Biologi  
pada Fakultas Matematika dan Ilmu Pengetahuan Alam  
Universitas Airlangga  
Surabaya

# SKRIPSI



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## LEMBAR PENGESAHAN SKRIPSI

Judul : UJI TOKSISITAS INSEKTISIDA BASUDIN 60 EC  
TERHADAP LAJU PERTUMBUHAN POPULASI  
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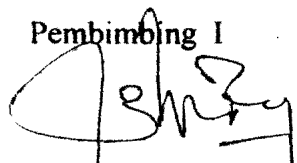
Penyusun : Teguh Eko Waskito

NIM : 089411193

Tanggal ujian : Senin, 26 Juli 1999

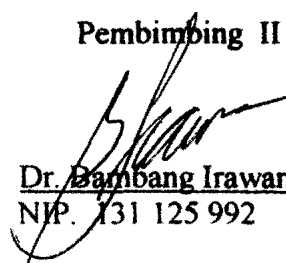
**Disetujui oleh :**

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Pembimbing II



Dr. Bambang Irawan  
NIP. 131 125 992

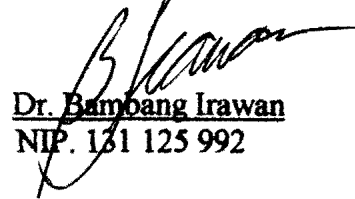
**Mengetahui,**

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Ketua Jurusan Biologi  
FMIPA Unair



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## LEMBAR PENGESAHAN SKRIPSI

Judul : UJI TOKSISITAS INSEKTISIDA BASUDIN 60 EC  
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Penyusun : Teguh Eko Waskito

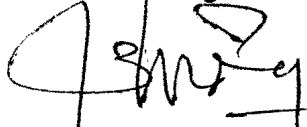
NIM : 089411193

Tanggal ujian : Senin, 26 Juli 1999

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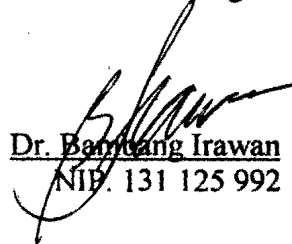
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Dosen Pembimbing I



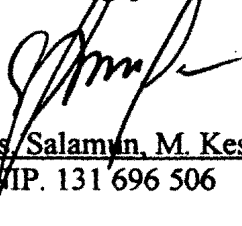
Drs. Trisnadi W. C. P. M. Si.  
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Dosen Penguji III



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Dra. Alfiah Hayati, M. Kes.  
NIP. 131 801 398

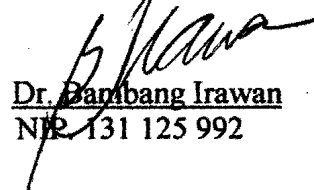
**Mengetahui,**

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Waskito, T.E. 1999 The toxicity test of Basudin 60 EC insecticide on the growth rate of *P. caudatum* Ehrenberg population. This thesis has been written under the tutorship of Drs. Trisnadi Widyaleksono C. P. MSi dan Dr. Bambang Irawan, Department of Biology, Faculty of Mathematic dan Natural Basic Science, Airlangga University, Surabaya

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## ABSTRACT

The usefulness of synthetic insecticides such as Basudin 60 EC has proved to provide positif response on target insect. However the use such insecticide, at the same time has produced various adverse effect on the environment, cause danger to the non target organism, such as either soil and water protozoan. One of the protozoan is called *P. caudatum*, whose function are to control the population of soil bacteria, and to help soil fertilization trough its result of metabolism and desert body.

This experiment was mainly purpose for finding out the sub lethal concentration of Basudin 60 EC insecticide on the growth rate of *P. caudatum* population. The independent variable of this observation are concentration of Basudin 60 EC insecticide : 0 ppm, 0,1 ppm, 0,3 ppm, 0,6 ppm, and 0,9 ppm. Meanwhile, dependent variable being observed was the growth rate of *P. caudatum* population. The medium use was a hay infusion contained *Ps. fluorescen* bacteria functioned as the nutrition of *P. caudatum*. An inoculation of *P. caudatum* completed on the day of zero as well as delivering Basudin 60 EC insecticide into the hay infusion, and afterwards the observation will be done during six day.

The data derived, will then be analyzed by one way varians analysis (ANAVA) and correlation test. The result of statistics analysis will showed that numerous sub lethal concentration of Basudin 60 EC insecticide cause any difference on the growth rate of *P. caudatum* population, furthermore, the result of the correlation test was going to prove that the raise of Basudin 60 EC insecticide concentration has followed the decrease of the growth rate of *P. caudatum* population.

Keywords : Basudin 60 EC, *P. caudatum*, the growth rate