

- CADMIUM
- MACROBRACHIUM

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**PENGARUH EDTA DALAM MENGHILANGKAN
KADAR KADMIUM YANG TERAKUMULASI DALAM
INSANG UDANG *Macrobrachium sintangense***

SKRIPSI



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NINING DWI WIDYAYANTI

**JURUSAN BIOLOGI
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS AIRLANGGA
SURABAYA
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Sebagai Salah Satu Syarat Untuk Memperoleh Gelar Sarjana
Sains Bidang Biologi Pada Fakultas Matematika Dan Ilmu
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Nining Dwi Widayanti, 2002, **The Effect Of EDTA On The Elimination Of Cd Concentration Accumulated In The Gills Of Shrimps *Macrobrachium sintangense***. Script is counseled by Dr.Ir Agoes Soegianto, DEA and Dra. Hartati, Msi., Biology Department, Faculty of Mathematics and Natural Science, Airlangga University, Surabaya.

ABSTRACT

The objective of this study was to know the effect of EDTA on the elimination of cadmium concentration accumulated in the gills of shrimps *Macrobrachium sintangense*. The first stage is to expose the shrimps in 0,03 ppm of cadmium, so that cadmium accumulated in the gills of shrimps. Accumulated shrimps then exposed to solutions containing fresh water, 0,1 ppm EDTA, 0,3 ppm EDTA, 1 ppm EDTA and 3 ppm EDTA during 7 days with 3 replication. Data were analyzed by one way ANAVA and continued by LSD test to measure the difference among treatment. From ANAVA test, we can know the significant value was 0,003. According to the result we concluded that 1 ppm EDTA had higher capacity to eliminate cadmium which accumulated in the gills of shrimps *Macrobrachium sintangense* compare to those of 0,1 ppm EDTA, 0,3 ppm EDTA and 3 ppm EDTA

Key words : *Macrobrachium sintangense*, gills, cadmium, EDTA and accumulation.