ANTIBACTERIAL ACTIVITY OF MAJAPAHIT PLANT 
(Crescentia cujete L.) ON BACTERIA 
Vibrio alginolyticus

Student Name: Nanin Dwi Rinawati
NRP: 1506100042
Department: Biology FMIPA-ITS
Advisor Lecturer: N.D. Kuswytasari, S.Si., M.Si
   Awik Puji Dyah N, S.Si, M.Si

Abstract

Antibacterial activity test has been carried out from extracts of leaves, bark and fruit of Majapahit plant (Crescentia cujete L.) on Vibrio alginolyticus, using disc diffusion method and dilution. Extraction process of Majapahit using ethanol 96% solvent. The concentration extract Majapahit used were 100% for the disc diffusion method, while for the dilution method using concentrations of 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100%. The results of this research show that the extract of fresh leaves forming the largest clear zone of 19.8 mm. While the dry leaves of 11.1 mm, fresh bark of 9.4 mm, dry bark of 9 mm, and fresh fruit of 8.8 mm. Only the extract of dried fruits that negative clear zone. Value of MIC (Minimum Inhibitory Concentration) from fresh leaf extract of Majapahit (C. cujete L.) against bacteria V. alginolyticus is 60%. While the value of MBC (Minimum Bactericidal Concentration) is 90%.

Keyword: Majapahit plant extracts (C. cujete L.), clear zone
MIC, MBC, V. alginolyticus.